

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	NCS-1905249442
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Enduring Resources	OGRID	372286
Contact Name	James McDaniel	Contact Telephone	505-444-3004
Contact email	jmcdaniel@enduringresources.com	Incident # (assigned by OCD)	NCS-1905249442
Contact mailing address	200 Energy Court	Farmington, New Mexico	87401

Location of Release Source

Latitude 36.151204 Longitude -107.570666
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	N Escavada Unit 315H	Site Type	Wellsite
Date Release Discovered	2/17/2019	API# (if applicable)	30-043-21888

Unit Letter	Section	Township	Range	County
L	10	22N	7W	Sandoval

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) 300 BBLS	Volume Recovered (bbls) 100 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 1,100 BBLS	Volume Recovered (bbls) 0 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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)

Cause of Release

On 2/17/2019, a contractor noticed a release coming from a damaged 6" transfer line that was transferring flowback liquids to the WEU 300H Recycling Facility. The line had an integrity failure, releasing approximately 1,400 bbls of flowback liquids into the bar ditch along the road. Approximately 300 bbls of the liquid was oil, and the remaining 1,100 bbls of liquid was produced water (based on percentages that were being seen in the flowback tanks). The flowback fluid then traveled along the bar ditch and into a small drainage feature, heading away from the location. The fluids flowed in the drainage feature for approximately 1.4 miles, before entering a larger, unnamed tributary of Escavada Wash. The total release path distance was 1.66 miles. A dam was built at the end of the spill area, stopping the downstream migration. Cleanup activities are underway.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of fluids released is 1,400 bbls, and the volume was released into a small, unnamed wash. For these reasons, the release is considered to be a major release.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was provided to Cory Smith, NMOCD, at 8:30 PM on 2/17/2019 via phone call. A follow-up email was sent on 2/17/2019 at 11:48 PM.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Due to access issues in the drainage and wash areas, recovery of free liquids is still on-going. A freshwater flush has been scheduled to begin on 2/26/2019 to capture as much free liquid as possible.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: _____	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____	

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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 checked="" type="checkbox"/> Yes <input 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 ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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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: James McDanielTitle: HSE SupervisorSignature: Date: 9/30/2019email: jmcdaniel@enduringresources.comTelephone: 505-444-3004**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: James McDaniel Title: HSE Supervisor
 Signature:  Date: 9/30/2019
 email: jmcDaniel@enduringresources.com Telephone: 505-444-3004

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.


Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: James McDaniel Title: HSE SupervisorSignature:  Date: 9/30/2019email: jmcDaniel@enduringresources.com Telephone: 505-444-3004**OCD Only**Received by: OCD Date: 12/19/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 8/3/2020Printed Name: Cory Smith Title: Environmental Specialist



REPORT OF FINAL SAMPLING & CLOSURE REQUEST

**NEU #315H Release Response
API # 30-043-21888
NMOCD Incident # NCS1905249442
Sandoval County, New Mexico**

December 13, 2019

Prepared for:

**ENDURING RESOURCES, LLC
Sandoval County, New Mexico**

Prepared by:

**LT ENVIRONMENTAL, INC.
848 East Second Avenue
Durango, Colorado 81301
970.385.1096**





REPORT OF FINAL SAMPLING & CLOSURE REQUEST

NEU #315H Release Response
Sandoval County, New Mexico

Project Number: 077919003

Prepared by:

A blue ink signature of Daniel Burns.

Daniel Burns
LTE Project Geologist

December 13, 2019

Date

Reviewed by:

A black ink signature of Ashley L. Ager.

Ashley Ager, M.S., P.G.
LTE Vice Principal

December 13, 2019

Date



DISTRIBUTION LIST

New Mexico Oil Conservation Division

Bureau of Indian Affairs, Federal Indian Minerals Office

Navajo Nation Environmental Protection Agency

United States Environmental Protection Agency Region IX

Bureau of Land Management

United States Army Corps of Engineers

Enduring Resources, LLC

LT Environmental, Inc.



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1.0 INTRODUCTION

LT Environmental, Inc. (LTE), on behalf of Enduring Resources, LLC (Enduring) presents this report of final soil sampling results and a formal request for closure for the NEU #315H production well release (Site). This is the fifth and final report documenting remediation and soil sampling activities conducted in response to a release of 1,400 barrels (bbls) of flowback fluids on February 17, 2019. Based on the results presented in this report, Enduring has successfully completed spill response and remediation throughout the entirety of the impacted areas within the release footprint. Extensive soil removal and *in situ* remediation via biological amendment applications have been successful in the previously impacted areas and continued monitoring is no longer required. Enduring is respectfully requesting that a No Further Action Status be granted for the NEU #315H.



2.0 BACKGROUND

On February 17, 2019, a release occurred during flowback operations at the NEU #315H oil and natural gas production well located on the Nacimiento Formation outcrop east-southeast of Escavada Wash in the northwest quarter of the southwest quarter (Unit L) of Section 10, Township 22 North, Range 7 West, Sandoval County, New Mexico, approximately 7.5 miles southwest of Counselor, New Mexico (Figure 1). The Site and associated release footprint are within the exterior boundaries of the Navajo Reservation, but on fee surface (Indian Allotted). A cam lock on an aboveground flowline outside of the well pad containment berm failed, resulting in flowback liquids flowing offsite and under an access road through culverts to an area of level topography where the fluids ran as sheet flow until channeling into a nearby drainage. This unnamed drainage is a second-order tributary to Escavada Wash, located approximately 1.25 miles east-northeast. Approximately 1,400 bbls of flowback fluids from the wellbore were released, of which 300 bbls were estimated to be crude oil. The released liquids travelled approximately 5,500 feet down the wash until an emergency dam was built by hand for containment. The dam held temporarily, but meltwater associated with snow on the ground eventually broke the dam and fluids migrated past a confluence of the second-order tributary into a first-order tributary of Escavada Wash. Another dam was constructed downgradient of the confluence for containment.

Emergency release response activities began immediately with fluid recovery, boom deployment, and construction of six underflow dams to divert fluid flow and minimize the release footprint. A flushing event was proposed and initially conducted but aborted after higher temperatures caused significant runoff in the release footprint. Daily inspections of the entire length of the affected washes were conducted to map the most downgradient observable evidence of impacted soil, vegetation, and/or sheen. Once melt runoff subsided and containment was confirmed, Enduring initiated remediation and worked with regulatory agencies to develop a confirmation sampling plan. A New Mexico Oil Conservation Division (NMOCD) Release Notification Form C-141 was prepared and provided by Enduring to the NMOCD and all other regulatory agencies.



3.0 SITE CHARACTERIZATION AND REGULATORY STANDARDS

Wellstream fluids as defined in New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (19.15.29.7) were released from the wellbore during flowback operations and included a combination of produced water and crude oil. Releases of well stream fluids are regulated by the NMOCD under 19.15.29 NMAC and contaminants of concern are identified in Table 1 of 19.15.29.12 NMAC as benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH – the total sum of gasoline range organics [GRO], diesel range organics [DRO], and motor oil range organics [MRO]), and chloride.

3.1 Regulatory Agencies

Due to the location of the Site and the release path into a wash, multiple regulatory agencies were involved in the oversight and enforcement of remediation efforts. The lease surface area is part of the Eastern Navajo allotted tribal land, so the Bureau of Indian Affairs (BIA) - Federal Indian Minerals Office (FIMO), the Navajo Nation Environmental Protection Agency (NNEPA), and the United States Environmental Protection Agency (EPA) Region IX were involved. As the release path flowed into a navigable surface water, the United States Army Corps of Engineers (USACE) also assumed jurisdiction of the release in the wash extent. Since the impacted wash tributary eventually flows into bodies of water on federally-owned land, the Bureau of Land Management (BLM) was also involved. As the release was a result of oil and natural gas activity within the state, the NMOCD is in charge of the final approval of closure status of the release.

3.2 Regulatory Standards and Criteria

Based on presumed depth to groundwater and, in accordance with 19.15.29.12 NMAC, Table 1, *Closure Criteria for Soils Impacted by a Release*, the following apply:

- 10 milligrams per kilogram (mg/kg) benzene;
- 50 mg/kg total benzene, BTEX;
- 100 mg/kg TPH; and
- 600 mg/kg chloride.

All regulatory agencies involved mutually agreed to adhere to the NMAC Table 1 criteria and did not institute any additional regulatory standards or additional contaminants of concern.

3.3 SAP/QAPP

In order to follow the EPA data quality objective processes, a Sampling Analysis Plan (SAP) was drafted to establish the project organization, project goals, data objectives, data criteria, data collection, quality assurance, and sampling analysis for the remediation activities following the release. In addition to the SAP, a Quality Assurance Project Plan (QAPP) was drafted and submitted to the regulatory agencies for review on April 19, 2019. All regulatory agencies replied and approved the submitted SAP and QAPP by April 23, 2019.



3.4 Potential Receptors

The unnamed first and second order tributaries immediately affected by the release eventually feed into the Escavada Wash and ultimately the San Juan River. Depth to groundwater is estimated to be less than 50 feet below ground surface (bgs) in the most downgradient portions of the release footprint. The nearest permitted domestic water well to the release extent, as defined by the most downgradient extent of observed soil staining (SJ-02508, owned by Mr. Cash A. Carruth) is approximately 3.8 miles to the southwest and has a total depth of 20 feet bgs recorded in drilling logs. The nearest spring is located approximately 4.1 miles southwest of the release extent. The nearest continuously flowing water is the San Juan River, approximately 40 miles to the north. Other than water resources, the nearest potential receptor is a permanent residence approximately 2,900 feet south of the release extent. Potential receptors are identified on Figure 2.



4.0 REMEDIATION ACTIVITIES

Since the initial discovery of the release on February 17, 2019, a concerted effort to halt impact migration and remediate impact to soil has taken place at the Site. A chronological description of remediation efforts is described below. Previously submitted reports, including the SAP, include extensive details of release response activities not described in this section. The SAP additionally describes and characterizes the release footprint. A photographic log depicting various remediation activities is included as Appendix A.

4.1 Dam Construction

Following the immediate emergency response actions conducted after the release discovery, several underflow dams were constructed throughout the second- and first-order tributaries to Escavada Wash to minimize migration of well stream fluids further downstream. A total of six underflow dams (Dams 1, 2, 3A, 3B, 4, and 5) were constructed with native fill material and reinforced with sandbags and impermeable plastic lining. The locations of the dams are presented on Figure 3. Dams were routinely inspected and repaired/reinforced as necessary, primarily after precipitation and wash runoff events. Any pooled liquids were recovered via vacuum truck and hydro-vacuuming.

4.2 Flushing

Enduring proposed flushing the affected wash with freshwater to displace oil from areas in the wash that were still frozen or covered in snow from recent precipitation. On February 26, 2019, approximately 240 bbls of freshwater were released into an area above the channelized release footprint. However, the flushing activities were soon aborted due to increasing temperatures resulting in accelerated snowmelt and naturally-running wash conditions.

4.3 Oil Absorbent Booms/Pads

Oil absorbent booms were placed across the wash in numerous areas and absorbent pads were placed in areas with standing liquids (Figure 3). The booms and pads were routinely inspected and replaced once they were saturated. There were six sections of oil absorbent booms extending across the entire width of the first-order tributary installed downgradient of Dam 5. Additionally, a SwiftWater® oil containment boom was installed downgradient of Dam 5 to divert any petroleum hydrocarbons to a central collection point comprised of oil absorbent booms.

4.4 Runoff Inspections and Surface Water Sampling

During, or immediately after runoff events, LTE inspected the entire length of the affected washes, including 4.75 miles downgradient of Dam 5 as far as the County Road 7900 bridge crossing. Inspections included mapping the most downgradient observable evidence of impacted soil, vegetation, and/or sheen. Visual observations consisted of globules of crude oil on vegetation or soil and discolored soil. Impacted soil was mapped and scheduled for removal. Results of those inspections are presented on Figure 4.

If sufficient runoff water was present in the wash, a surface water sample was collected downgradient of Dam 5. Water samples were submitted to Pace Analytical Services, LLC (Pace Analytical) of Mount Juliet,



Tennessee, for analysis of BTEX by EPA Method 8015 and chloride by EPA Method 300.0. Laboratory analytical results of water samples collected below the last dam are summarized in Table 1. Complete laboratory analytical reports are included in Appendix B.

4.5 Soil and Vegetation Removal

Following runoff and sufficient drying within the wash extent, the areas with visibly observable surficial impacts were marked for removal. Crews were dispatched into the washes to remove visibly impacted soil and vegetation via hand digging and excavation using skid steers.

From March 6 to March 26, 2019, a total of 2,200 cubic yards of soil were removed via excavation, and a total of 1,342 bbls of sludge (runoff containing impacted soil) was removed from the washes and underflow dam areas. Impacted soil, vegetation, and sludge were loaded and transported for disposal at the Envirotech Landfarm (Envirotech) south of Bloomfield in San Juan County, New Mexico.

Additional excavation events occurred following soil sampling and are described in subsequent sections of this report.

4.6 Hydrovacuum Truck Recovery

Between the initial release response date and April 19, 2019, a total of 3,900 bbls of liquids were recovered from the wash and underflow dam areas by vacuum truck or hydrovacuum. Recovered liquids were transported to a nearby Enduring wastewater recycling facility where solids and liquids were separated via settling and the remaining impacted liquids were hauled for disposal to Agua Moss in Bloomfield, New Mexico.

Following additional precipitation events, vacuum trucks were used to recover any liquids with sheen or foam accumulating upgradient of the dams. Liquids were also recovered from the dam areas to expedite soil drying for soil sampling and remediation efforts.

4.7 Unmanned Aerial Vehicle Flights

Throughout the course of the project, unmanned aerial vehicles were used to fly over the release extent and collect data. Digital elevation topography and orthomosaic aerial imagery were created to help track soil volumes removed during remediation activities.



5.0 CONFIRMATION SOIL SAMPLING

After submittal and approval of the SAP and QAPP, LTE conducted soil sampling to assess residual impact to soil associated with the release. In accordance with the approved SAP and QAPP, the total impacted surface area within the release footprint was segmented into 2,000-square foot areas using global positioning system (GPS) and field measurements (Figures 5 to 10). Each segmented area was marked with labeled wooden stakes and flagging in preparation for sampling. Once the wash was deemed sufficiently dry to sample after recent precipitation events, a 48-hour notification for sampling was provided to the regulatory agency contacts.

5.1 Initial Sampling Results

On April 29, 2019, LTE personnel were on site to collect confirmation and site characterization soil samples per the approved SAP and QAPP. Representatives from the NMOCD and BLM (also representing FIMO) were present to witness sampling procedures and to identify any additional discrete sample locations based on visual observations. A total of 113 ten-point composite surface area samples, 52 discrete soil boring samples, and seven discrete grab samples were collected, including all proposed field duplicate samples. The samples were handled and transported under chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for analysis of BTEX, TPH-GRO, TPH-DRO, TPH-MRO, and chloride.

On May 8, 2019, eight additional samples were collected once additional drying occurred in the wash. This sampling event was witnessed by the NMOCD, BLM, and FIMO. The samples were collected and submitted under previously described and approved methods per the SAP and QAPP.

A complete soil sampling log (listing sample ID, collection time, field headspace result, lithology, and any observable petroleum hydrocarbon discoloration or odor) for each sample is attached as Table 2. Soil analytical results are summarized in Table 3. Results from the quality control samples are presented in Table 4. Complete analytical reports are included in Appendix B.

Analytical results indicated all samples were compliant with NMOCD Table 1 Closure Criteria for benzene, BTEX, and chloride. The following samples were not compliant with NMOCD Table 1 Closure Criteria for TPH concentration:

Sample ID	TPH Concentration (mg/kg)
SA-007	120
SA-055	6,250
SA-060	534
SA-C (SA-060 Duplicate)	339
SA-078	136
SA-081	184
SA-104	310
SB-097-01	307
GR-07	5,946



A complete description and summary of the results from the initial sampling event was described in the *Initial Soil Sampling Results* update letter report submitted to all involved parties on May 20, 2019. Additional soil removal and subsequent soil sampling was proposed in that report and was approved by all regulatory agencies by May 29, 2019.

5.1.1 Additional Soil Removal

Following approval of the initial soil sampling results, additional soil removal activities began on June 5, 2019, in the areas where recalcitrant TPH concentrations existed. Crews were dispatched to remove additional soil via hand digging, skid steer, and backhoe, while LTE geologists provided excavation oversight and field screening. Through June 10, 2019, an additional total of 545 cubic yards of impacted material was removed. Regulatory agencies were given 48-hour notification and a subsequent confirmation soil sampling event was scheduled for June 13, 2019.

5.2 Second Report of Soil Sampling Results

On June 13, 2019, LTE personnel were on site to collect confirmation soil samples per the approved SAP and QAPP. Representatives from the NMOCD and FIMO were present to witness sampling procedures and to identify any additional discrete sample locations based on visual observations. A total of six ten-point composite surface area samples, three new discrete soil boring samples, and one discrete grab sample were collected, plus two field duplicate samples and three field blanks. Additionally, four excavation confirmation soil samples were collected from the area below the culvert area across from the production pad. Subsurface impacts warranted deeper excavation and regulators on site agreed to sample the excavation with NMOCD standard five-point composites along the sidewall and base of the excavation floor. Two five-point sidewall and two five-point floor confirmation soil samples were collected. No additional samples were requested by the regulatory representatives on site. All samples were collected, handled, and submitted for analysis to Hall under previously described methods per the approved SAP and QAPP.

Analytical results indicated all samples were compliant with NMOCD Table 1 Closure Criteria for benzene, BTEX, and chloride. The following samples were not compliant with NMOCD Table 1 Closure Criteria for TPH concentration:

Sample ID	TPH Concentration (mg/kg)
SA-104R	426
GR-07R	1,275
EX-FS01	595.7

A complete description and summary of the results from the second sampling event was described in the *Second Report of Soil Sampling Results* update letter report submitted to all involved parties on June 26, 2019. At this time, LTE proposed additional soil removal of the impacted soil in the wash surface and at the culvert excavation, as well as deconstructing the dams and removing any impacted materials below the temporary dams. LTE also proposed applying a biological amendment on the residually impacted cut bank area between dams 3A and 3B as a means of in-situ remediation. This was proposed as result of the extensive amount of clean overburden requiring removal and the natural hydrologic deconstruction that



would have occurred if the cut bank area was excavated mechanically. The proposed additional remediation activities were approved by all regulatory agencies by July 3, 2019.

5.2.1 Dam Deconstruction and Additional Soil Removal

After receiving approval of the proposed additional remediation activities, LTE personnel and the construction contractor were on site to begin dam deconstruction and additional soil removal from July 9 to July 17, 2019. Another 862 cubic yards of impacted material, along with an additional 65 bbls of liquids were removed from the remaining affected areas and dam areas. Regulatory agencies were given 48-hour notification and a subsequent confirmation soil sampling event was scheduled for July 19, 2019.

5.2.2 Biological Amendment Application

On July 12, 2019, LTE personnel were on site to apply approximately 500 gallons of a three percent solution of Micro-Blaze® to the area where a visible lens of hydrocarbon staining in the cut bank of the wash near dams 3A and 3B. The liquid mixture was applied using a high-flow two-inch centrifugal pump and a pressurized sprayer nozzle to maximize penetration and saturation into the lens to promote biodegradation and in-situ remediation.

5.3 Third Report of Soil Sampling Results

On July 19, 2019, LTE personnel were on site to collect confirmation soil samples per the approved SAP and QAPP in areas that previously exceeded NMOCD Table 1 Closure Criteria for TPH and in areas that were previously saturated or where temporary dams were previously located. Representatives from the NMOCD and FIMO were present to witness sampling procedures and to identify any additional discrete sample locations based on visual observations. A total of seven ten-point composite surface area samples, ten discrete soil boring samples, and one five-point excavation floor confirmation soil samples were collected, plus two field duplicate samples and three field blanks. No additional samples were requested by the regulatory representatives on site. All samples were collected, handled, and submitted for analysis to Hall under previously described methods per the approved SAP and QAPP.

Analytical results indicated all samples were compliant with NMOCD Table 1 Closure Criteria for benzene, BTEX, and chloride. The following samples were not compliant with NMOCD Table 1 Closure Criteria for TPH concentration:

Sample ID	TPH Concentration (mg/kg)
SB-106-01	514
EX-FS01R	710

A complete description and summary of the results from the second sampling event was described in the *Third Report of Soil Sampling Results* update letter report submitted to all involved parties on July 31, 2019. Based on the most recent soil sampling results, LTE proposed additional soil removal via excavation and hydrovacuum activities with continued oversight and field screening until another confirmation sampling event was warranted. LTE also continued monitoring the wash cut bank area where the biological amendment was applied. The proposed remediation activities were approved by all regulatory agencies and confirmation sampling event was scheduled for August 2, 2019.



5.3.1 Additional Soil Removal and Hydrovacuum Activities

Following receipt of the analytical results from the July 19, 2019, sampling event, LTE and the construction contractor immediately began additional soil removal activities in the area around Dam 1. A hydrovacuum truck was used for additional soil removal efforts in the excavation area below the culvert due to nearby high-pressure underground utilities. An additional total of 273 cubic yards of impacted soil and 195 bbls of liquids were removed from the remaining affected areas. Regulatory agencies were given 48-hour notification and a subsequent confirmation soil sampling event was scheduled for August 2, 2019.

5.4 Fourth Report of Soil Sampling Results

On August 2, 2019, LTE personnel were on site to collect more confirmation soil samples that previously exceeded NMOCD Table 1 Closure Criteria for TPH. In addition, a discrete soil sample was collected in the area where Micro-Blaze® amendment was applied. A representative from the BLM was present to witness sampling procedures and to identify any additional discrete sample locations based on visual observations. One discrete soil boring sample and one five-point excavation floor confirmation soil sample were collected, plus one field duplicate and three field blanks. No additional samples were requested by the regulatory representatives on site. All samples were collected, handled, and submitted for analysis to Hall under previously described methods per the approved SAP and QAPP.

Analytical results indicate all confirmation samples collected were compliant with NMOCD Table 1 Closure Criteria for benzene, BTEX, TPH, and chloride. One discrete soil sample exceeded NMOCD Table 1 Closure Criteria concentrations for TPH:

Sample ID	TPH Concentration (mg/kg)
GR-07RR	2,627

A complete description and summary of the results from the second sampling event is described in the *Fourth Report of Soil Sampling Results* update letter report submitted to all involved parties on August 16, 2019. LTE recommended a secondary application of the biological amendment to enhance in-situ remediation of the recalcitrant petroleum hydrocarbons present in the wash cut bank.

5.4.1 Secondary Biological Amendment Application

On August 13, 2019, LTE personnel were on site to apply approximately 500 gallons of a three percent solution of Micro-Blaze® to the visible lens of hydrocarbon staining in the cut bank of the wash near dams 3A and 3B. The solution was applied in the same manner as previously described. Additionally, several borings throughout the impacted interval were drilled using a hammer-drill and a one-inch diameter, 13-inch long auger bit to create perforations for the amendment to penetrate the impacted interval deeper. Following the second application, LTE recommended allowing the Micro-Blaze® amendment additional time for biological activation before confirmation sampling.



6.0 IN SITU REMEDIATION AND FINAL CONFIRMATION SOIL SAMPLING

LTE proposed *in situ* remediation of the residual impacts in the wash cut bank area between dams 3A and 3B by application of Micro-Blaze®, an EPA emergency response-approved proprietary blend of wetting agents, nutrients, and non-pathogenic bacteria, to the impacted soil via mechanical spray application. The biological amendment works in conjunction with the native conditions to enhance natural degradation, using oxygen from the ambient air, natural microbes, supplemental microbes, and supplemental electron acceptors. The microbes promote hydrocarbon degradation and site remediation through metabolic processes, where the microbes oxidize organic compounds to release energy, build cellular material, and promote cellular processes. The amendment allows the petroleum hydrocarbons to release from the sorbed state in the soil pore matrix, to be broken down into smaller species, to dissolve in the amendment and supplemental water, and promotes a biological oxidation reaction until there are no petroleum hydrocarbons remaining in the soil.

There were two applications of the biological amendment, for an approximate total of 1,000 gallons of three percent solution applied to the impacted interval in the wash cut bank area between dams 3A and 3B. LTE periodically field screened the impacted interval to monitor the progress of the biodegradation. After field screening and analytical results indicated a significant decline in observable petroleum hydrocarbon impacts in the wash cut bank interval, a confirmation soil sampling event was scheduled for September 4, 2019, after providing the regulatory agencies 48-hour notification.

6.1 Confirmation Soil Sampling

On September 4, 2019, LTE personnel were on site to collect a discrete soil sample from the interval in the wash cut bank area between dams 3A and 3B. Representatives from the NMOCD and BLM were present to witness sampling procedures and to identify any additional discrete sample locations based on visual observations. Only one discrete grab sample was collected from the previously impacted area, plus three field blanks. No additional samples were requested by the regulatory representatives on site. All samples were collected, handled, and submitted for analysis to Hall under previously described methods per the approved SAP and QAPP.

6.2 Confirmation Soil Sample Analytical Results

Analytical results indicate the discrete soil sample collected on September 4, 2019, from the previously impacted interval in the wash cut bank is compliant with NMOCD Table 1 Closure Criteria for benzene, BTEX, TPH, and chloride.

A complete soil sampling log (listing sample ID, collection time, field headspace result, lithology, and any observable petroleum hydrocarbon discoloration or odor) for each sample is attached as Table 2. Soil analytical results are summarized in Table 3. Results from the quality control samples are presented in Table 4. Complete analytical reports are included in Appendix B.



7.0 DEVIATIONS FROM SAP/QAPP

The following summarizes any noted deviations from the SAP or QAPP:

- Prior to the initial sampling event, the impacted wash extent was segmented into approximate 2,000 square foot areas using GPS. An estimated 108 areas were projected to be sampled in the SAP. Upon preparing the wash for the initial sampling event, surface and topographic conditions such as bends in the wash, dictated shortening or extending segments as necessary. In total, there were actually 111 areas of approximately 2,000 square feet that were sampled;
- There was no designated nomenclature described in the SAP for samples that were collected again in the same location or area as samples that had previously exceeded NMOCD Table 1 Closure Criteria. For samples that were collected again, an "R" was added to the end of the sample identification. If a sample was collected multiple times an additional "R" was added each time. For example, discrete grab sample "GR-07RR" is the second sample collected, the third overall, of grab sample number seven; and
- The trip blanks were not labeled as described in the SAP. The courier service offered by the laboratory analytical contractor supplied a trip blank with each cooler delivered during each sampling event and the laboratory labeled each sample as "Trip Blank." To differentiate between the numerous sampling events and trip blanks collected, a sequential alphabetic character was added to each trip blank submitted. For example, the quality control sample "Trip Blank D" was the fourth trip blank sample collected.



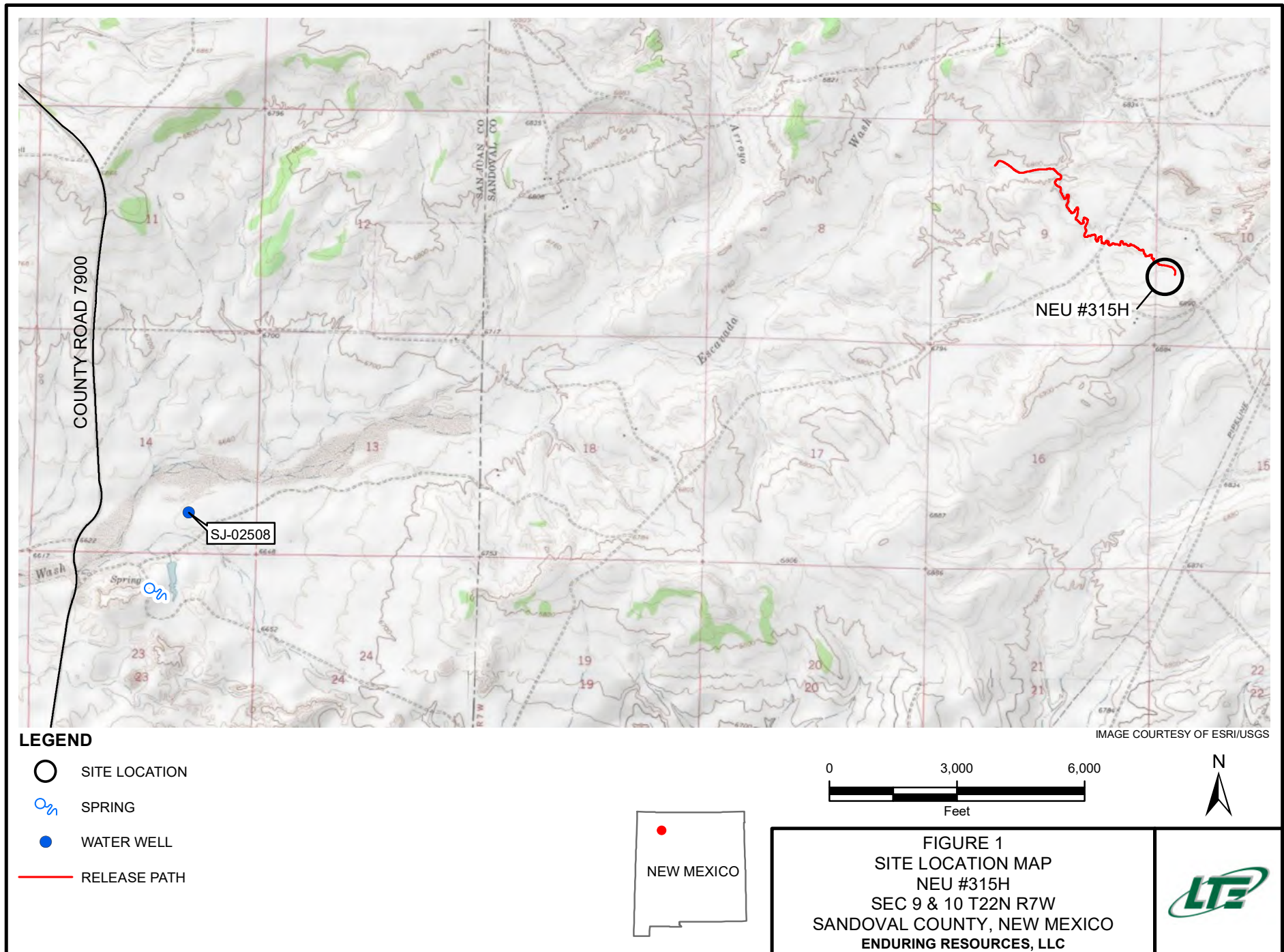
8.0 CONCLUSION AND REQUEST FOR CLOSURE

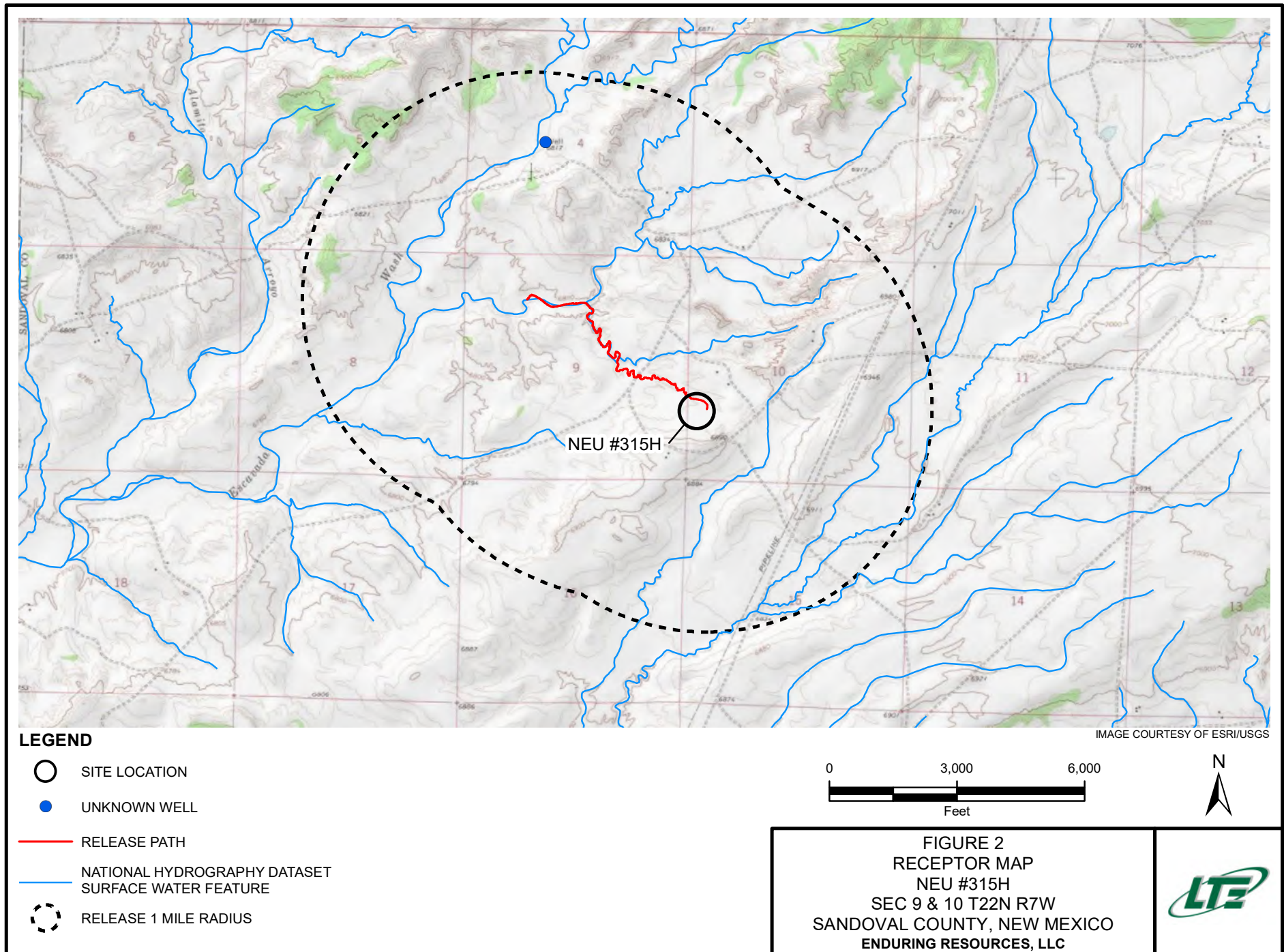
Based on the soil laboratory analytical results, Enduring has removed the impacts to soil from the affected wash area as a result of the release that occurred on February 17, 2019. A total of 3,880 cubic yards of impacted soil were removed and hauled for disposal. A total of 5,502 bbls of liquids were removed during remediation activities. Approximately 1,000 gallons of three percent solution of Micro-Blaze® biological amendment was applied to enhance biodegradation for *in situ* remediation of recalcitrant petroleum hydrocarbons in the wash cut bank area.

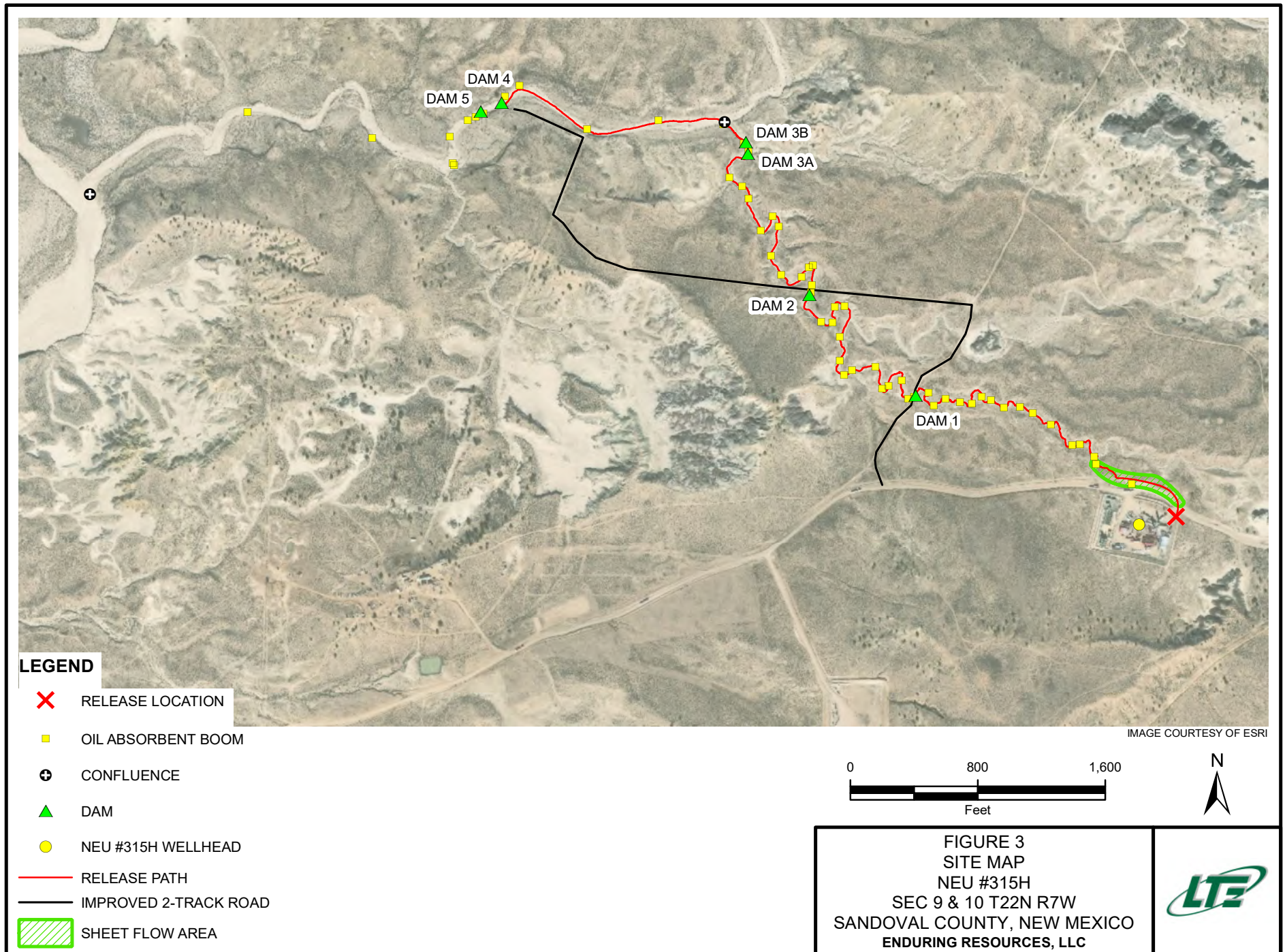
Due to the extensive remediation efforts and according to the confirmation soil sampling results indicating all samples collected comply with 19.15.29.12 NMAC, Table 1, *Closure Criteria for Soils Impacted by a Release*, Enduring respectfully requests that a No Further Action status be granted to this Site. As remediation activities have ceased at the Site and in the affected wash areas, reclamation efforts are already underway in close coordination with FIMO. Reclamation will be addressed by Enduring with the appropriate regulatory agencies under separate cover.

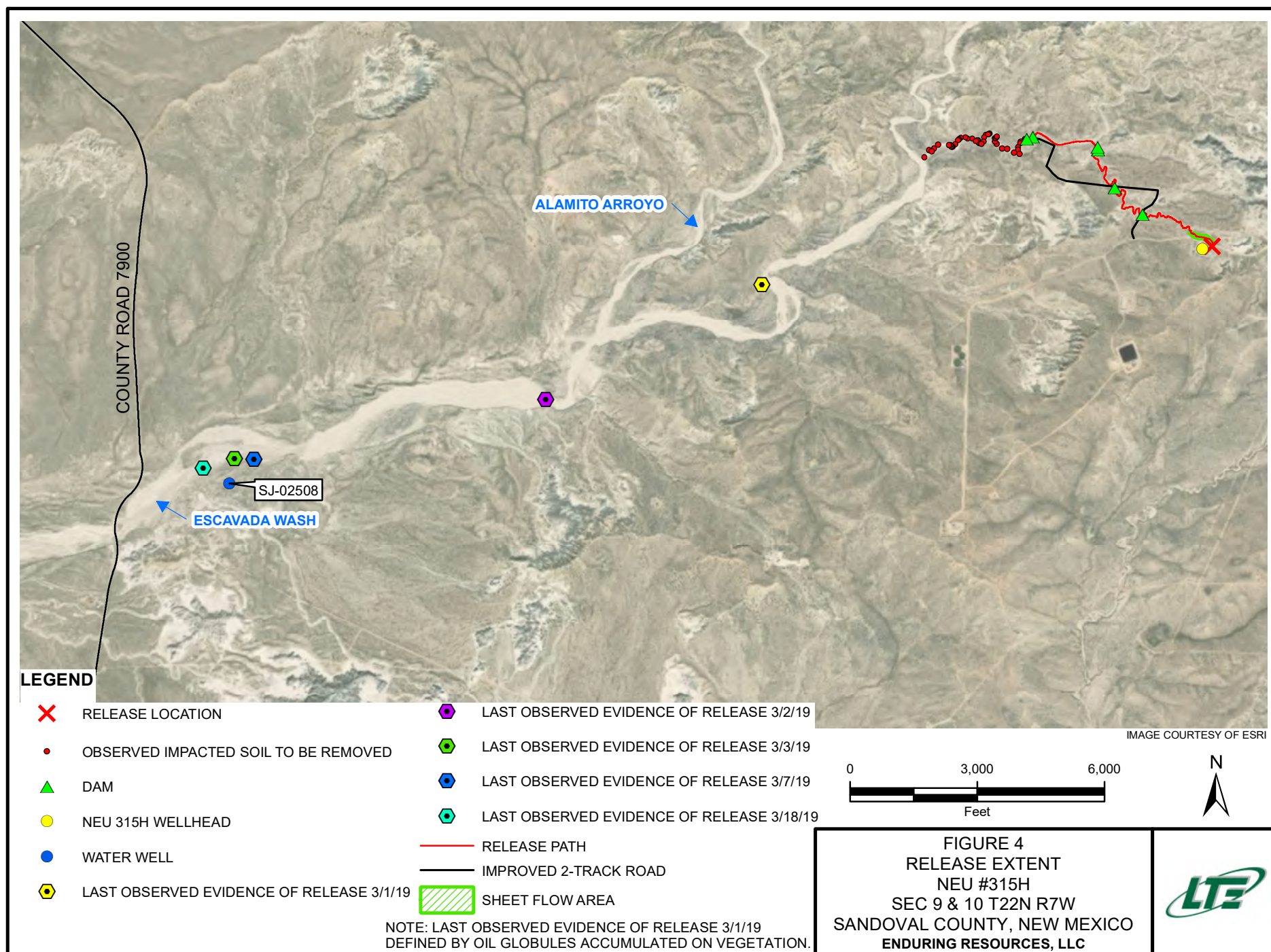
FIGURES

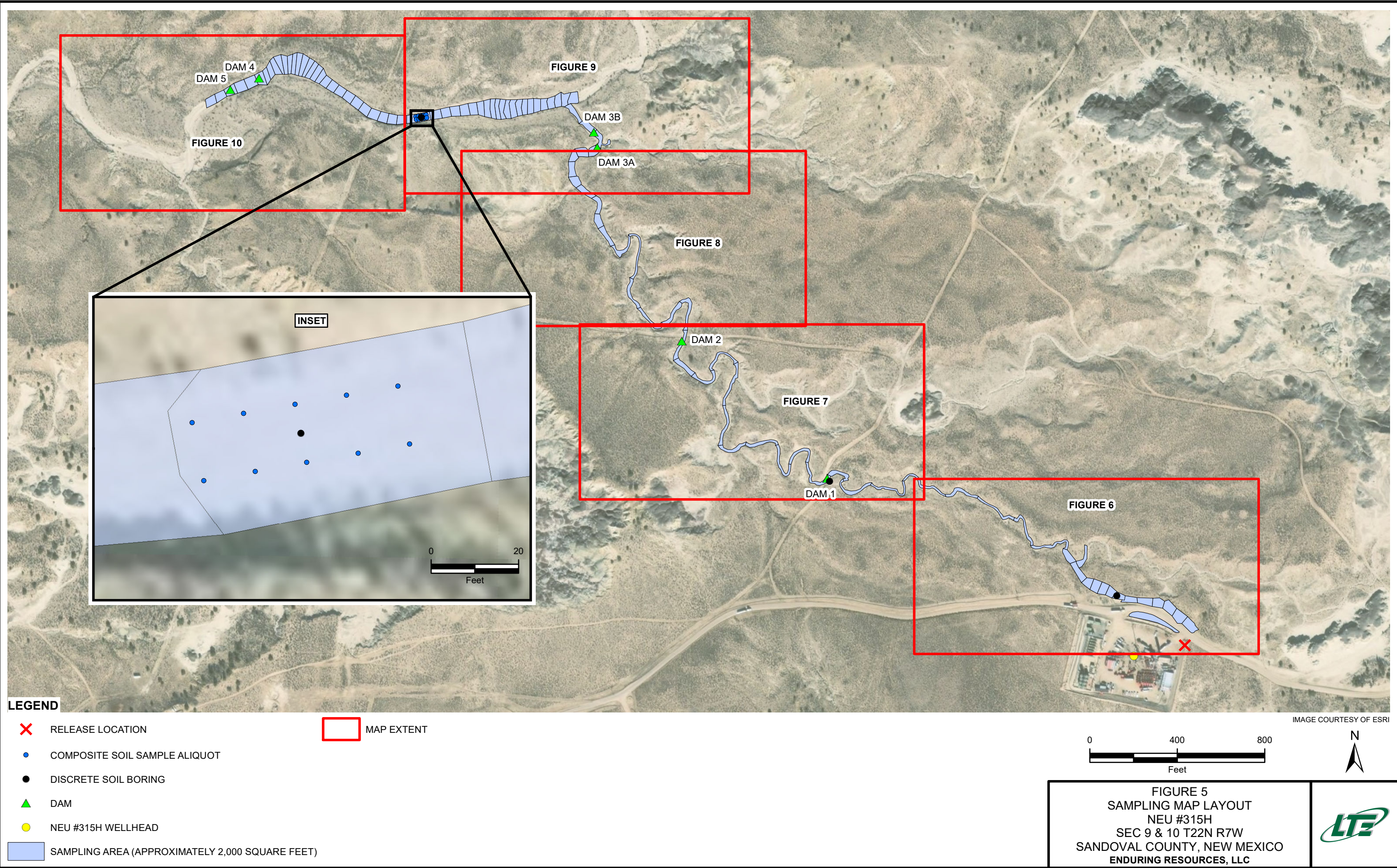


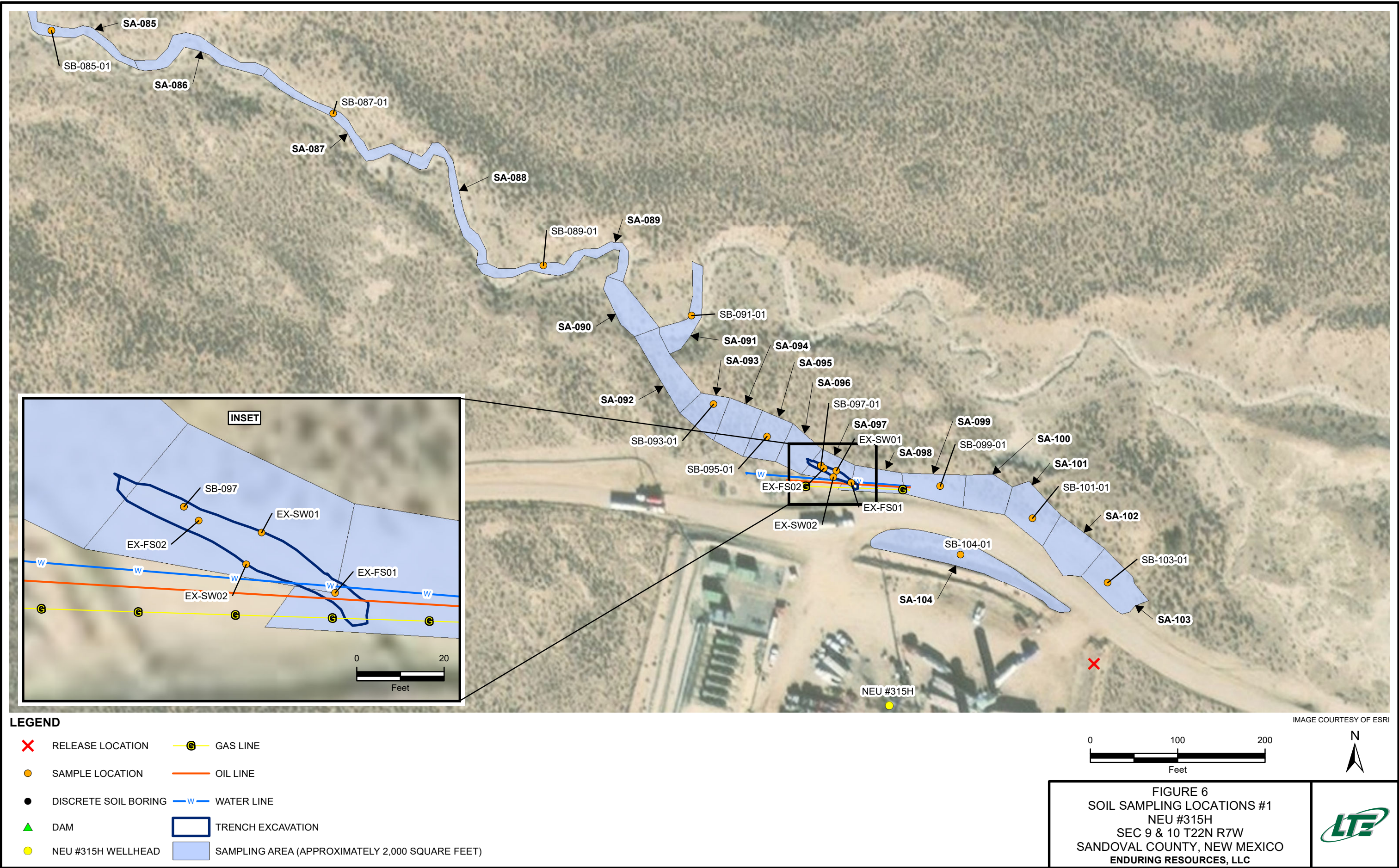














LEGEND

	RELEASE LOCATION		SAMPLING AREA (APPROXIMATELY 2,000 SQUARE FEET)
	SAMPLE LOCATION		
	DISCRETE SOIL BORING		
	DAM		
	NEU #315H WELLHEAD		

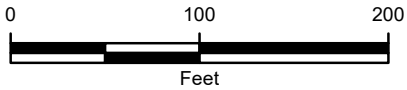


FIGURE 7
SOIL SAMPLING LOCATIONS #2
NEU #315H
SEC 9 & 10 T22N R7W
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC





LEGEND

- ✗ RELEASE LOCATION
- SAMPLE LOCATION
- DISCRETE SOIL BORING
- ▲ DAM
- NEU #315H WELLHEAD
- SAMPLING AREA (APPROXIMATELY 2,000 SQUARE FEET)

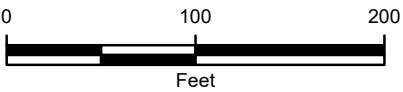


IMAGE COURTESY OF ESRI

FIGURE 8
SOIL SAMPLING LOCATIONS #3
NEU #315H
SEC 9 & 10 T22N R7W
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC





LEGEND

RELEASE LOCATION
 SAMPLING AREA (APPROXIMATELY 2,000 SQUARE FEET)

SAMPLE LOCATION

DAM

NEU #315H WELLHEAD

SAMPLE ID
 SAMPLE DATE
 B: BENZENE (mg/kg)
 BTEX: BENZENE, TOLUENE, ETHYLBENZENE, AND
 TOTAL XYLENES (mg/kg)
 TPH: TOTAL PETROLEUM HYDROCARBONS (mg/kg)
 Cl: CHLORIDE (mg/kg)
BOLD: RESULTS EXCEED NMOCD CLOSURE CRITERIA
 NMOCD – NEW MEXICO OIL CONSERVATION DIVISION

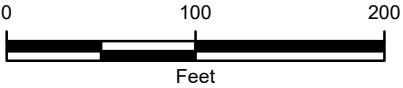
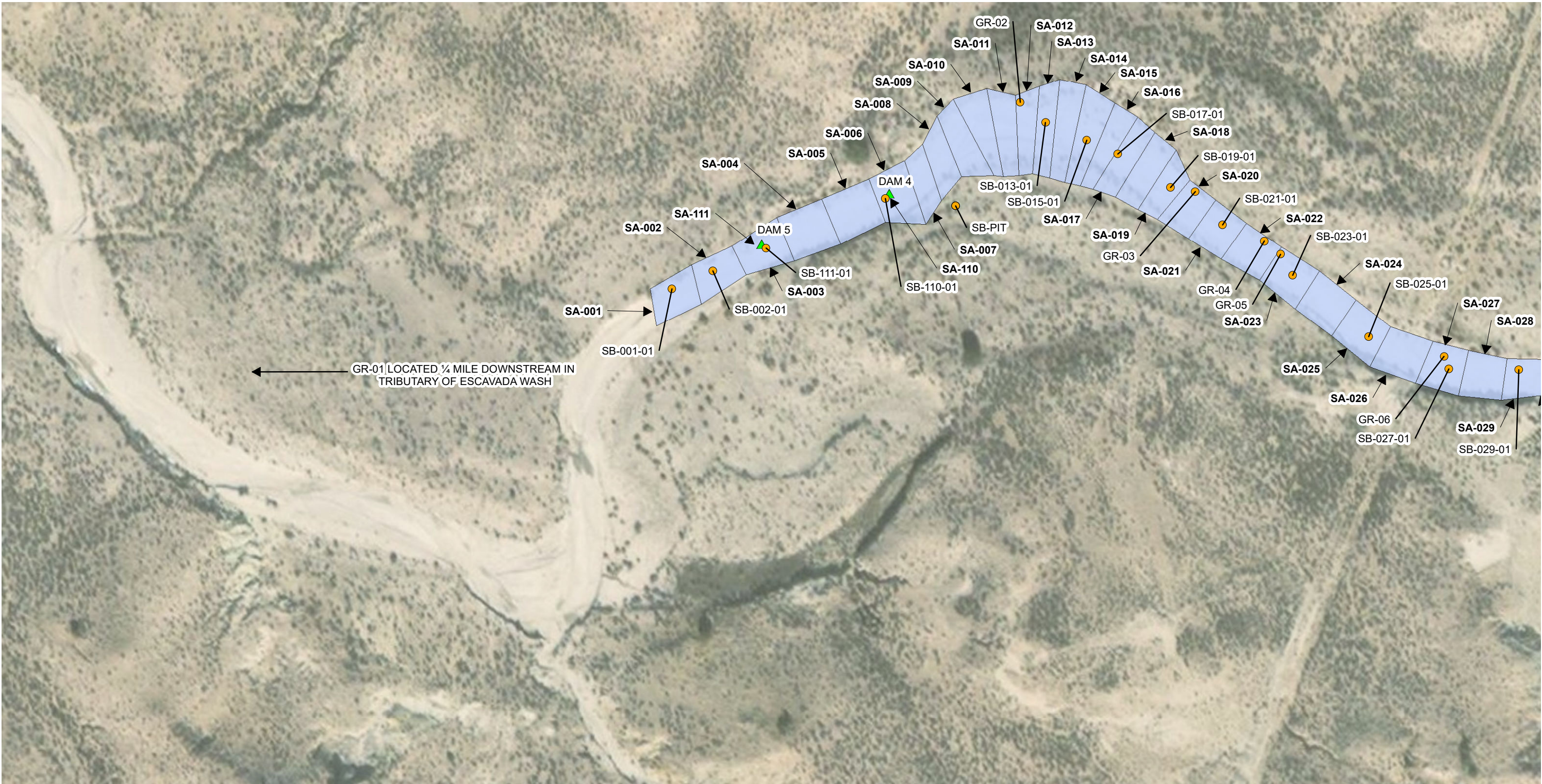


FIGURE 9
 SOIL SAMPLING LOCATIONS #4
 NEU #315H
 SEC 9 & 10 T22N R7W
 SANDOVAL COUNTY, NEW MEXICO
 ENDURING RESOURCES, LLC





LEGEND

- ✗ RELEASE LOCATION
- SAMPLE LOCATION
- ▲ DAM
- NEU #315H WELLHEAD
- SAMPLING AREA (APPROXIMATELY 2,000 SQUARE FEET)

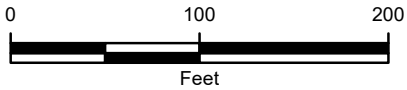


IMAGE COURTESY OF ESRI

FIGURE 10
SOIL SAMPLING LOCATIONS #5
NEU #315H
SEC 9 & 10 T22N R7W
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC



TABLES



TABLE 1
SURFACE WATER ANALYTICAL RESULTS

NEU #315H RELEASE RESPONSE
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC

SAMPLE NAME	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	TOTAL XYLENES (µg/L)	CHLORIDE (mg/L)
WS-01	3/1/2019	<0.500	2.06	0.996	7.67	NA
WS-02	3/3/2019	<0.500	<1.00	<0.500	<1.50	1.63
WS-03	3/4/2019	<1.00	<2.00	<1.00	<3.00	9.23
WS-04	3/5/2019	<1.00	<2.00	<1.00	<3.00	21.5
WS-05	3/12/2019	<1.00	<2.00	<1.00	<3.00	16.8
WS-06	3/13/2019	<1.00	<2.00	<1.00	<3.00	20.0
WS-07	3/14/2019	<0.500	<1.00	<0.500	<1.50	17.7
WS-08	3/15/2019	<0.500	<1.00	<0.500	<1.50	23.5
WS-09	3/16/2019	<0.500	<1.00	<0.500	<1.50	29.6
NMWQCC Standard		10	750	750	620	620

NOTES:

µg/L - micrograms per liter

mg/L - milligrams per liter

NMWQCC - New Mexico Water Quality Control Commission

NA - not analyzed

< - indicates result is less than the stated laboratory reporting limit

Bold indicates value exceeds stated NMWQCC standard

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
10-Point Composite Surface Soil Samples							
SA-001	4/29/2019	15:05	0.3	0.5	Light brown medium-coarse sand	Moist	No
SA-002	4/29/2019	15:03	0.0	0.5	Light brown medium-coarse sand	Moist	No
SA-003	5/8/2019	10:45	1.0	0.5	Dark brown sand with clay, some gravel	Moist	No
SA-004	5/8/2019	10:38	16.2	0.5	Dark brown sand with clay	Very moist	No
SA-005	5/8/2019	10:32	4.2	0.5	Dark brown sand with clay	Very moist	No
SA-006	4/29/2019	16:52	3.0	0.5	Light brown medium-coarse sand	Moist	No
SA-007	4/29/2019	16:56	0.1	0.5	Light brown medium-coarse sand with silt	Moist	No
SA-007R	6/13/2019	12:00	24.6	0.5	Brown medium clayey sand with silt	Very moist	No
SA-008	4/29/2019	15:07	0.0	0.5	Light brown medium-coarse sand with silt	Moist	No
SA-009	4/29/2019	17:00	48.3	0.5	Light brown medium-coarse sand with silt	Moist	No
SA-010	4/29/2019	16:50	0.9	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-011	4/29/2019	15:00	0.5	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-012	4/29/2019	15:06	0.8	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-013	4/29/2019	16:47	0.1	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-014	4/29/2019	16:40	1.4	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-015	4/29/2019	16:53	0.1	0.5	Light brown medium-coarse sand with clay	Moist	No
SA-016	4/29/2019	16:36	3.7	0.5	Light brown medium-coarse sand with silt	Moist	No
SA-017	4/29/2019	16:34	3.6	0.5	Dark brown medium-coarse sand	Moist	No
SA-018	4/29/2019	16:43	0.3	0.5	Light brown medium-coarse sand	Moist	No
SA-019	4/29/2019	16:08	0.1	0.5	Dark brown medium-coarse sand	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SA-020	4/29/2019	16:07	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-E	4/29/2019	16:07	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-021	4/29/2019	16:20	1.5	0.5	Dark brown medium-coarse sand	Moist	No
SA-022	4/29/2019	15:59	0.9	0.5	Dark brown medium-coarse sand	Moist	No
SA-023	4/29/2019	15:56	0.4	0.5	Dark brown medium-coarse sand	Moist	No
SA-024	4/29/2019	15:55	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-025	4/29/2019	15:50	1.1	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-026	4/29/2019	14:58	0.4	0.5	Dark brown medium-coarse sand	Moist	No
SA-027	4/29/2019	15:41	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-028	4/29/2019	15:39	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-029	4/29/2019	15:37	0.9	0.5	Dark brown medium-coarse sand	Moist	No
SA-030	4/29/2019	15:37	2.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-031	4/29/2019	15:30	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-032	4/29/2019	15:33	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-033	4/29/2019	15:27	1.4	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-034	4/29/2019	15:24	1.1	0.5	Brown medium-coarse sand	Moist	No
SA-035	4/29/2019	15:19	0.0	0.5	Brown medium-coarse sand	Moist	No
SA-036	4/29/2019	15:16	0.3	0.5	Brown medium-coarse sand	Moist	No
SA-037	4/29/2019	15:13	0.0	0.5	Brown medium-coarse sand	Moist	No
SA-038	4/29/2019	15:06	0.0	0.5	Brown medium-coarse sand	Moist	No
SA-039	4/29/2019	15:05	0.0	0.5	Brown medium-coarse sand	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SA-040	4/29/2019	15:05	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-D	4/29/2019	15:05	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-041	4/29/2019	15:01	0.1	0.5	Brown medium-coarse sand	Moist	No
SA-042	4/29/2019	14:53	0.2	0.5	Brown medium-coarse sand	Moist	No
SA-043	4/29/2019	14:52	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-044	4/29/2019	14:49	0.5	0.5	Brown medium-coarse sand	Moist	No
SA-045	4/29/2019	14:48	0.5	0.5	Brown medium-coarse sand	Moist	No
SA-046	4/29/2019	14:39	0.2	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-047	4/29/2019	14:40	0.5	0.5	Brown medium-coarse sand	Moist	No
SA-048	4/29/2019	14:33	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-049	4/29/2019	14:34	0.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-050	4/29/2019	14:37	0.1	0.5	Brown medium-coarse sand	Moist	No
SA-051	4/29/2019	14:42	0.1	0.5	Brown medium-coarse sand	Moist	No
SA-052	4/29/2019	14:31	0.7	0.5	Brown medium-coarse sand	Moist	No
SA-053	4/29/2019	14:15	0.0	0.5	Dark green clay, traces of sand	Moist	No
SA-054	4/29/2019	14:18	1.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-055	4/29/2019	14:15	233.0	0.5	Brown medium-coarse sand	Moist	Strong
SA-055R	6/13/2019	11:40	105.0	0.5	Light brown silty sand	Dry	Slight
SA-056	4/29/2019	14:03	14.6	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-057	4/29/2019	14:19	8.4	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-058	4/29/2019	14:04	6.7	0.5	Dark brown medium-coarse sand with clay	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SA-059	4/29/2019	14:00	2.8	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-060	4/29/2019	13:51	1,201	0.5	Brown fine-medium silty sand	Moist	Strong
SA-C	4/29/2019	13:53	1,201	0.5	Brown fine-medium silty sand	Moist	Strong
SA-060R	6/13/2019	11:25	15	0.5	Brown, medium sand with silt	Dry	No
SA-061	4/29/2019	13:45	0.6	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-062	4/29/2019	13:44	13.6	0.5	Dark brown medium-coarse sand	Moist	No
SA-063	4/30/2019	13:50	5.0	0.5	Dark brown medium-coarse sand with clay	Moist	No
SA-064	4/29/2019	13:44	0.4	0.5	Brown medium-coarse sand	Moist	No
SA-065	4/29/2019	13:30	42.6	0.5	Dark brown medium-coarse sand	Moist	No
SA-066	4/29/2019	13:30	305.0	0.5	Brown medium-coarse sand	Moist	Strong
SA-067	4/29/2019	13:22	37.6	0.5	Light brown sandy clay	Moist	No
SA-068	4/29/2019	13:22	8.2	0.5	Dark brown medium- coarse sand	Moist	No
SA-069	4/29/2019	13:07	0.0	0.5	Tan medium-coarse sand with clay	Moist	No
SA-070	4/29/2019	13:05	25.7	0.5	Light brown sandy clay	Moist	No
SA-071	4/29/2019	12:59	0.4	0.5	Dark brown medium-coarse sand	Moist	No
SA-072	4/29/2019	12:46	51.4	0.5	Light brown sandy clay	Moist	No
SA-073	4/29/2019	12:40	15.1	0.5	Tannish brown fine-medium sand	Moist	No
SA-074	4/29/2019	12:47	50.1	0.5	Dark brown medium-coarse sand	Moist	No
SA-075	4/29/2019	12:26	6.4	0.5	Light brown sandy clay	Moist	No
SA-076	4/29/2019	12:23	93.4	0.5	Light brown silty sand	Moist	Moderate
SA-077	4/29/2019	12:17	50.0	0.5	Dark sand with clay	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SA-078	4/29/2019	12:00	2.5	0.5	Gray sand and gravel with clay	Moist	No
SA-078R	6/13/2019	11:10	6.3	0.5	Brown fine silty sand with gravel and some clay	Dry	No
SA-079	4/29/2019	11:52	0.6	0.5	Dark tan medium-coarse sand	Moist	No
SA-080	4/29/2019	11:51	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-B	4/29/2019	11:53	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-081	4/29/2019	11:38	116.8	0.5	Gray sand and gravel with clay	Moist	No
SA-081R	6/13/2019	11:08	15.0	0.5	Dark brown medium sand with clay	Moist	Slight
SA-F	6/13/2019	12:22	15.0	0.5	Dark brown medium sand with clay	Moist	Slight
SA-082	4/30/2019	13:40	4.5	0.5	Dark brown fine sandy silt	Dry	No
SA-083	4/29/2019	11:27	0.7	0.5	Dark brown medium-coarse sand	Moist	No
SA-084	4/29/2019	11:20	0.2	0.5	Dark brown medium-coarse sand	Moist	No
SA-085	4/29/2019	10:58	5.6	0.5	Gray sand and gravel with clay	Moist	No
SA-086	4/29/2019	11:00	0.0	0.5	Dark brown medium-coarse sand	Moist	No
SA-087	4/29/2019	10:46	0.2	0.5	Dark brown medium-coarse sand	Moist	No
SA-088	4/29/2019	10:32	1.3	0.5	Gray sand and gravel with clay	Moist	No
SA-089	4/29/2019	10:34	1.8	0.5	Light brown medium-coarse sand	Moist	No
SA-090	4/29/2019	10:22	28.9	0.5	Dark brown medium-coarse sand	Moist	No
SA-091	4/29/2019	10:07	0.0	0.5	Brown coarse sand and gravel	Dry	No
SA-092	4/29/2019	10:08	0.8	0.5	Dark brown fine silty sand	Dry	No
SA-093	4/29/2019	9:55	1.7	0.5	Light brown clayey sand	Dry	No
SA-094	4/29/2019	9:41	0.0	0.5	Light brown clayey sand	Dry	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SA-095	4/29/2019	9:48	0.9	0.5	Dark brown fine silty sand	Dry	No
SA-096	4/29/2019	9:26	0.7	0.5	Light brown silty sand	Dry	No
SA-097	4/29/2019	9:15	0.0	0.5	Light brown silty sand	Dry	No
SA-098	4/29/2019	9:24	0.0	0.5	Dark brown fine silty sand	Dry	No
SA-099	4/29/2019	9:05	0.0	0.5	Light brown silty sand with black clay	Dry	No
SA-100	4/29/2019	9:00	26.7	0.5	Dark brown fine silty sand	Dry	No
SA-A	4/29/2019	9:05	26.7	0.5	Dark brown fine silty sand	Dry	No
SA-101	4/29/2019	8:55	0.0	0.5	Dry light brown fine silty sand	Dry	No
SA-102	4/29/2019	8:35	7.6	0.5	Dry light brown fine silty sand	Dry	No
SA-103	4/29/2019	8:45	0.5	0.5	Dark brown fine silt	Dry	No
SA-104	4/29/2019	17:43	16.6	0.5	Dark brown fine silt	Dry	No
SA-104R	6/13/2019	10:41	> 15,000	0.5	Dark brown fine silt	Dry	Strong
SA-104RR	7/19/2019	10:25	5.9	0.5	Reddish brown silty sand	Moist	No
SA-105	5/8/2019	11:05	0.7	0.5	Brown medium sand	Moist	No
SA-106 (Dam 1)	7/19/2019	10:40	1.7	0.5	Reddish brow silty sand	Moist	No
SA-106R	8/2/2019	13:30	4.6	0.5	Dark brown fine clayey sand	Moist	No
SA-107 (Dam 2)	7/19/2019	11:00	30.2	0.5	Dark brown silt with sand	Moist	No
SA-108 (Dam 3A)	7/19/2019	11:17	21.1	0.5	Dark brown silt with sand	Moist	No
SA-109 (Dam 3B)	7/19/2019	11:31	2.3	0.5	Dark brown silt with sand	Moist	No
SA-110 (Dam 4)	7/19/2019	11:33	22.1	0.5	Dark brown sand	Moist	No
SA-111 (Dam 5)	7/19/2019	11:53	0.7	0.5	Dark brown silty sand	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
<i>Discrete Hand-Auger Boring Soil Samples</i>							
SB-001-01	4/29/2019	16:50	0.00	1	Brown coarse sand with silt	Moist	No
SB-002-01	4/29/2019	16:55	0.00	1	Brown coarse sand with silt	Moist	No
SB-003-01	7/19/2019	12:11	7.6	1	Dark brown sand and gravel	Moist	No
SB-005-01	7/19/2019	12:13	16.4	1	Dark brown sand and gravel	Moist	No
SB-007-01	6/13/2019	12:09	9.8	1	Brown fine sand	Moist	No
SB-C	6/13/2019	12:20	9.8	1	Brown fine sand	Moist	No
SB-009-01	6/13/2019	12:15	24.9	1	Brown fine sand	Moist	No
SB-011-01	6/13/2019	12:13	18.90	1	Brown fine sand	Moist	No
SB-013-01	4/29/2019	16:25	0.7	1	Brown coarse sand with silt	Very moist	No
SB-015-01	4/29/2019	16:23	1.6	1	Brown coarse sand with silt	Very moist	No
SB-017-01	4/29/2019	16:20	1.5	1	Brown coarse sand with silt	Very moist	No
SB-019-01	4/29/2019	16:04	3.3	1	Brown coarse sand with silt	Very moist	No
SB-B	4/29/2019	16:04	3.3	1	Brown coarse sand with silt	Very moist	No
SB-021-01	4/29/2019	16:02	3.4	1	Brown coarse sand with silt	Very moist	No
SB-023-01	4/29/2019	16:00	2.4	1	Brown coarse sand with silt	Very moist	No
SB-025-01	4/29/2019	15:56	3.8	1	Brown coarse sand with silt	Very moist	No
SB-027-01	4/29/2019	15:55	4.3	1	Brown coarse sand with silt	Very moist	No
SB-029-01	4/29/2019	15:50	1.0	1	Light gray to tan coarse sand with sandy silt	Very moist	No
SB-031-01	4/29/2019	15:43	0.9	1	Light gray to tan coarse sand	Very moist	No
SB-033-01	4/29/2019	15:46	1.1	1	Light brown silty sand	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SB-035-01	4/29/2019	15:30	0.3	1	Light brown sandy silt	Moist	No
SB-037-01	4/29/2019	15:21	1.3	1	Brown sandy lean clay	Moist	No
SB-039-01	4/29/2019	15:24	0.5	1	Brown sandy lean clay	Moist	No
SB-A	4/29/2019	15:26	0.5	1	Brown sandy lean clay	Moist	No
SB-041-01	4/29/2019	15:17	0.3	1	Light brown silty sand	Moist	No
SB-043-01	4/29/2019	15:15	0.8	1	Light brown silty sand	Moist	No
SB-045-01	4/29/2019	15:12	1.0	1	Brown to gray sandy shale	Moist	No
SB-047-01	4/29/2019	14:59	0.8	1	Fine silty sand	Moist	No
SB-049-01	4/29/2019	14:58	0.8	1	Brown sandy shale	Moist	No
SB-051-01	4/29/2019	14:48	1.2	1	Brown sandy shale	Moist	No
SB-053-01	4/29/2019	14:35	0.8	1	Brown to gray sandy shale	Moist	No
SB-055-01	4/29/2019	14:28	0.6	1	Brown to gray poorly graded sand with shale intermixed	Moist	No
SB-057-01	4/29/2019	14:18	5.6	1	Brown to gray poorly graded sand	Moist	No
SB-059-01	4/29/2019	14:12	0.8	1	Light brown to black sandy clay shale	Moist	No
SB-061-01	4/29/2019	14:00	0.6	1	Light brown to black sandy clay shale	Moist	No
SB-063-01	4/29/2019	13:55	1.5	1	Light brown to black sandy clay shale	Moist	No
SB-065-01	4/29/2019	13:45	1.3	1	Light brown to black sandy clay shale	Moist	No
SB-067-01	4/29/2019	13:35	1.2	1	Light brown to black sandy clay shale	Moist	No
SB-069-01	4/29/2019	13:25	1.0	1	Light brown to black sandy clay shale	Moist	No
SB-071-01	4/29/2019	13:15	1.8	1	Brown to black sandy fat clay shale	Moist	No
SB-073-01	4/29/2019	13:00	1.0	1	Brown to black sandy fat clay shale	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SB-075-01	4/29/2019	12:25	2.6	1	Brown to black sandy fat clay (shale) fissile	Moist	No
SB-077-01	4/29/2019	12:10	1.0	1	Brown to black sandy fat clay (shale) fissile	Moist	No
SB-079-01	4/29/2019	11:50	1.4	1	Brown to black fat clay, fissile	Moist	No
SB-081-01	4/29/2019	11:35	1.5	1	Light brown silty sand	Moist	No
SB-083-01	4/29/2019	11:10	1.2	1	Light brown silty sand	Moist	No
SB-085-01	4/29/2019	11:00	0.6	1	Light brown silty sand, poorly graded	Moist	No
SB-087-01	4/29/2019	10:42	0.6	1	Light brown silty sand	Moist	No
SB-089-01	4/29/2019	10:25	1.0	1	Light brown silty sand	Moist	No
SB-091-01	4/29/2019	10:07	0.8	1	Light brown to white, poorly graded, sand with gravel	Moist	No
SB-093-01	4/29/2019	9:55	2.0	1	Light brown silty sand	Moist	No
SB-095-01	4/29/2019	9:40	1.0	1	Light brown silty sand	Moist	No
SB-097-01	4/29/2019	9:06	481.0	1	Light brown sandy silt	Moist	Moderate
SB-097-02	4/29/2019	9:08	144.0	2	Light brown sandy silt, some caliche at 1.75'	Moist	Moderate
SB-097-03	4/29/2019	9:10	33.8	3	Light brown sandy silt	Moist	Very faint
SB-099-01	4/29/2019	8:58	0.8	1	Light brown fine sandy silt	Moist	No
SB-101-01	4/29/2019	8:45	2.2	1	Light brown fine sandy silt	Dry	No
SB-103-01	4/29/2019	8:40	3.8	1	Light brown fine sandy silt	Moist	No
SB-104-01	4/29/2019	17:45	4.2	1	Brown silty sand	Dry	No
SB-104-01R	7/19/2019	10:27	5.0	1	Reddish brown silty sand	Moist	No
SB-106-01	7/19/2019	10:45	102.1	1	Dark brown silt with sand	Moist	No
SB-106-03	7/19/2019	10:47	15.9	3	Dark brown silt with sand	Moist	No

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
SB-106-01R	8/2/2019	13:25	1.6	1	Dark brown to green clay	Moist	No
SB-107-01	7/19/2019	10:58	9.5	1	Dark brown silt with sand	Moist	No
SB-108-01	7/19/2019	11:30	9.1	1	Green/brown clay	Moist	No
SB-109-01	7/19/2019	11:33	22.1	1	Dark brown silt with sand	Moist	No
SB-110-01	7/19/2019	11:51	5.8	1	Dark brown sand with trace silt	Moist	No
SB-111-01	7/19/2019	11:53	0.7	1	Dark brown silty sand	Moist	No
SB-PIT-01	4/29/2019	13:00	3.8	1	Brown silty sand, trace organics	Damp	No
SB-PIT-02	4/29/2019	13:05	1.1	2	Brown silty sand, trace organics	Damp	No
SB-PIT-03	4/29/2019	13:10	1.0	3	Brown silty sand, trace organics to light brown, medium silty sand	Moist	No
SB-PIT-04	4/29/2019	13:15	0.8	4	Coarsening downward medium-medium-coarse sand	Very moist	No
SB-PIT-05	4/29/2019	13:17	0.2	5	Medium-coarse sand with silt	Very moist	No
SB-PIT-06	4/29/2019	13:20	0.5	6	Brown medium-coarse silty sand	Moist	No
SB-PIT-07	4/29/2019	14:00	0.2	7	Refusal, gravel with silt, cobble refusal	Moist	No
Discrete Grab Soil Samples							
GR-01	4/29/2019	11:12	0.6	0.25	Brown fine-medium silty sand	Very moist	No
GR-02	4/29/2019	11:18	1.2	0.25	Brown fine-medium silty sand	Moist	No
GR-03	4/29/2019	11:20	2.2	0.25	Brown fine sandy silt	Moist	No
GR-04	4/29/2019	11:22	2.7	0.25	Brown fine sandy silt	Moist	No
GR-05	4/29/2019	11:24	3.6	0.25	Light brown fine silty sand	Moist	No
GR-06	4/29/2019	11:26	2.3	0.25	Light brown fine silty sand	Moist	No
GR-07	4/29/2019	11:30	529.0	Cut Bank wall 3A/3B	Light brown/tan silty sand and shale	Dry	Strong

**TABLE 2
SOIL SAMPLING LOG**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC**

SAMPLE ID	Date	TIME	PID (ppm)	Depth (ft bgs)	Soil Description	Moisture Content	Hydrocarbon Stain/Odor?
GR-07R	6/13/2019	11:36	> 15,000	Cut Bank wall 3A/3B	Green/brown silty clay	Moist	Strong
GR-07RR	8/2/2019	13:33	581.0	Cut Bank wall 3A/3B	Green/brown silty clay	Moist	Strong
GR-07RR	9/4/2019	10:20	6.2	Cut Bank wall 3A/3B	Green/brown silty clay	Moist	Slight
5-Point Composite Excavation Confirmation Soil Samples							
EX-SW01	6/13/2019	10:15	3.6	0-4	Dark brown fine to medium sandy silt	Dry	None
EX-SW02	6/13/2019	10:25	14	0-4	Dark brown fine to medium sandy silt	Dry	None
EX-FS01	6/13/2019	10:30	2,016	4	Dark brown fine to medium sandy silt	Moist	Strong
EX-FS01R	7/19/2019	10:30	1	1	Reddish brown silty sand	Moist	None
EX-FS01RR	8/2/2019	13:35	2.3	4	Dark brown fine to medium sandy silt	Very moist	Slight
EX-FS02	6/13/2019	10:38	7.1	4	Dark brown fine to medium sandy silt	Dry	None

Notes:

bgs- below ground surface
EX- excavation confirmation soil sample
FS- floor soil sample
ft- feet
GR - grab soil sample

PID- photoionization detector
ppm- parts per million
SA- surface area soil sample
SB- soil boring soil sample
SW- sidewall soil sample

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
10-Point Composite Surface Soil Samples													
SA-001	0.5	4/29/2019	0.3	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<53	<53	<65
SA-002	0.5	4/29/2019	0.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<10	<51	<51	<66
SA-003	0.5	5/8/2019	1.0	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<12	<60	<60	<72
SA-004	0.5	5/8/2019	16.2	<0.033	<0.067	<0.067	<0.13	<0.13	<6.7	<13	<67	<67	<83
SA-005	0.5	5/8/2019	4.2	<0.032	<0.064	<0.064	<0.13	<0.13	<6.4	<13	<65	<65	<79
SA-006	0.5	4/29/2019	3.0	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	67	<61	67	<72
SA-007	0.5	4/29/2019	0.1	<0.031	<0.063	<0.063	<0.13	<0.13	<6.3	120	<62	120	<75
SA-007R	0.5	6/13/2019	24.6	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<10	<52	<52	100
SA-008	0.5	4/29/2019	0.0	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<12	<61	<61	<75
SA-009	0.5	4/29/2019	48.3	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<12	<59	<59	<76
SA-010	0.5	4/29/2019	0.9	<0.030	<0.061	<0.061	<0.12	<0.12	<6.1	<12	<58	<58	<73
SA-011	0.5	4/29/2019	0.5	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<11	<56	<56	<70
SA-012	0.5	4/29/2019	0.8	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<12	<58	<58	<71
SA-013	0.5	4/29/2019	0.1	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<55	<55	<70
SA-014	0.5	4/29/2019	1.4	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<11	<56	<56	<73
SA-015	0.5	4/29/2019	0.1	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<11	<54	<54	<70
SA-016	0.5	4/29/2019	3.7	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<56	<56	<72
SA-017	0.5	4/29/2019	3.6	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<12	<58	<58	<73
SA-018	0.5	4/29/2019	0.3	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<55	<55	<67
SA-019	0.5	4/29/2019	0.1	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<12	<59	<59	<73
SA-020	0.5	4/29/2019	0.0	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<11	<57	<57	<69
*SA-E	0.5	4/29/2019	0.0	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<11	<55	<55	<71
SA-021	0.5	4/29/2019	1.5	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<11	<55	<55	<71
SA-022	0.5	4/29/2019	0.9	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<56	<56	<72
SA-023	0.5	4/29/2019	0.4	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<11	<54	<54	<70
SA-024	0.5	4/29/2019	0.0	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<57	<57	<68

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SA-025	0.5	4/29/2019	1.1	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<10	<52	<52	<64
SA-026	0.5	4/29/2019	0.4	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<55	<55	<69
SA-027	0.5	4/29/2019	0.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<9.0	<45	<45	<69
SA-028	0.5	4/29/2019	0.0	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<8.8	<44	<44	<70
SA-029	0.5	4/29/2019	0.9	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<8.8	<44	<44	<67
SA-030	0.5	4/29/2019	2.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<9.8	<49	<49	<69
SA-031	0.5	4/29/2019	0.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<8.7	<44	<44	<65
SA-032	0.5	4/29/2019	0.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.9	<49	<49	<66
SA-033	0.5	4/29/2019	1.4	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<9.5	<47	<47	<66
SA-034	0.5	4/29/2019	1.1	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<10	<51	<51	<69
SA-035	0.5	4/29/2019	0.0	<0.032	<0.063	<0.063	<0.13	<0.13	<6.3	<9.9	<50	<50	<77
SA-036	0.5	4/29/2019	0.3	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<8.9	<44	<44	<70
SA-037	0.5	4/29/2019	0.0	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<10	<50	<50	<65
SA-038	0.5	4/29/2019	0.0	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	<10	<51	<51	<71
SA-039	0.5	4/29/2019	0.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.6	<48	<48	<64
SA-040	0.5	4/29/2019	0.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.7	<49	<49	<65
*SA-D	0.5	4/29/2019	0.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<53	<53	<66
SA-041	0.5	4/29/2019	0.1	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<9.8	<49	<49	<64
SA-042	0.5	4/29/2019	0.2	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<9.8	<49	<49	<66
SA-043	0.5	4/29/2019	0.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	<43	<43	<62
SA-044	0.5	4/29/2019	0.5	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.3	<47	<47	<65
SA-045	0.5	4/29/2019	0.5	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<10	<50	<50	<68
SA-046	0.5	4/29/2019	0.2	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	<9.8	<49	<49	<71
SA-047	0.5	4/29/2019	0.5	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<10	<50	<50	<67
SA-048	0.5	4/29/2019	0.0	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<9.5	<47	<47	<63
SA-049	0.5	4/29/2019	0.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<9.3	<46	<46	<66
SA-050	0.5	4/29/2019	0.1	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	<10	<50	<50	<72

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SA-051	0.5	4/29/2019	0.1	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<9.6	<48	<48	<66
SA-052	0.5	4/29/2019	0.7	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<9.1	<45	<45	<69
SA-053	0.5	4/29/2019	0.0	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	13	<50	13	91
SA-054	0.5	4/29/2019	1.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.2	<46	<46	75
SA-055	0.5	4/29/2019	233.0	<0.029	1	1.6	12	14.6	450	4,500	1,300	6,250	<72
SA-055R	0.5	6/13/2019	105.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	14	<52	14	<67
SA-056	0.5	4/29/2019	14.6	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	38	<47	38	<73
SA-057	0.5	4/29/2019	8.4	<0.030	<0.060	<0.060	<0.12	<0.12	13	19	<46	32	<73
SA-058	0.5	4/29/2019	6.7	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	15	<48	15	<71
SA-059	0.5	4/29/2019	2.8	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	17	<50	17	<68
SA-060	0.5	4/29/2019	1,201.0	<0.030	0.28	0.57	4.9	5.75	270	200	64	534	<72
*SA-C	0.5	4/29/2019	1,201.0	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	250	89	339	<72
SA-60R	0.5	6/13/2019	15.3	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<9.7	<49	<49	<63
SA-061	0.5	4/29/2019	0.6	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<9.5	<48	<48	<64
SA-062	0.5	4/29/2019	13.6	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<9.0	<45	<45	<66
SA-063	0.5	4/30/2019	5.0	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<57	<57	<69
SA-064	0.5	4/29/2019	0.4	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<9.8	<49	<49	<65
SA-065	0.5	4/29/2019	42.6	<0.028	<0.057	<0.057	<0.11	<0.11	<5.7	<9.6	<48	<48	<71
SA-066	0.5	4/29/2019	305.0	<0.028	<0.056	<0.056	<0.11	<0.11	7.8	55	<49	62.8	<68
SA-067	0.5	4/29/2019	37.6	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<9.4	<47	<47	<70
SA-068	0.5	4/29/2019	8.2	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<10	<52	<52	<65
SA-069	0.5	4/29/2019	0.0	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<12	<59	<59	<72
SA-070	0.5	4/29/2019	25.7	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<53	<53	<68
SA-071	0.5	4/29/2019	0.4	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	13	<58	13	<71
SA-072	0.5	4/29/2019	51.4	<0.029	<0.058	0.062	0.48	0.542	21	18	<57	39	<70
SA-073	0.5	4/29/2019	15.1	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	20	<59	20	<71
SA-074	0.5	4/29/2019	50.1	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	29	<54	29	<66

TABLE 3
SOIL ANALYTICAL RESULTS

NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SA-075	0.5	4/29/2019	6.4	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	37	<53	37	<66
SA-076	0.5	4/29/2019	93.4	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	27	<54	27	<67
SA-077	0.5	4/29/2019	50.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	19	<58	19	<71
SA-078	0.5	4/29/2019	2.5	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	77	59	136	<65
SA-078R	0.5	6/13/2019	6.3	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<9.8	<49	<49	<61
SA-079	0.5	4/29/2019	0.6	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<10	<51	<51	<66
SA-080	0.5	4/29/2019	0.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<55	<55	<68
*SA-B	0.5	4/29/2019	0.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<55	<55	<67
SA-081	0.5	4/29/2019	116.8	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	120	64	184	<68
SA-081R	0.5	6/13/2019	15.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<10	<52	<52	<65
*SA-F	0.5	6/13/2019	15.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	13	<53	13	<66
SA-082	0.5	4/30/2019	4.5	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<10	<52	<52	210
SA-083	0.5	4/29/2019	0.7	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<11	<53	<53	<64
SA-084	0.5	4/29/2019	0.2	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<10	<52	<52	<65
SA-085	0.5	4/29/2019	5.6	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	12	<55	12	<67
SA-086	0.5	4/29/2019	0.0	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<53	<53	<67
SA-087	0.5	4/29/2019	0.2	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<11	<53	<53	<66
SA-088	0.5	4/29/2019	1.3	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<10	<52	<52	<67
SA-089	0.5	4/29/2019	1.8	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<11	<54	<54	<65
SA-090	0.5	4/29/2019	28.9	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	24	<52	24	<67
SA-091	0.5	4/29/2019	0.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<10	<51	<51	<63
SA-092	0.5	4/29/2019	0.8	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<55	<55	150
SA-093	0.5	4/29/2019	1.7	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	19	<51	19	180
SA-094	0.5	4/29/2019	0.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	24	<52	24	82
SA-095	0.5	4/29/2019	0.9	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<57	<57	110
SA-096	0.5	4/29/2019	0.7	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<57	<57	130
SA-097	0.5	4/29/2019	0.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<54	<54	<66

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SA-098	0.5	4/29/2019	0.0	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<11	<53	<53	<64
SA-099	0.5	4/29/2019	0.0	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<11	<53	<53	<64
SA-100	0.5	4/29/2019	26.7	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	14	<55	14	120
*SA-A	0.5	4/29/2019	26.7	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	16	<56	16	120
SA-101	0.5	4/29/2019	0.0	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	13	<49	13	<65
SA-102	0.5	4/29/2019	7.6	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	33	<50	33	120
SA-103	0.5	4/29/2019	0.5	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	42	<53	42	<66
SA-104	0.5	4/29/2019	16.6	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	190	120	310	<67
SA-104R	0.5	6/13/2019	>15,000	<0.025	<0.051	<0.051	0.15	0.15	26	290	110	426	<62
SA-104RR	0.5	7/19/2019	5.9	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.0	<45	<45	<60
SA-105	0.5	5/8/2019	0.7	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<55	<55	<68
SA-106	0.5	7/19/2019	1.7	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	<60
SA-106R	0.5	8/2/2019	4.6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<11	<53	<53	<69
*SA-H	0.5	8/2/2019	4.6	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<11	<57	<57	<68
SA-107	0.5	7/19/2019	30.2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	<60
SA-108	0.5	7/19/2019	21.1	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	<60
SA-109	0.5	7/19/2019	2.3	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60
SA-110	0.5	7/19/2019	75.7	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<60
SA-111	0.5	7/19/2019	5.8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	<60
*SA-G	0.5	7/19/2019	5.8	<0.025	<0.050	<0.050	<0.099	<0.099	<4.9	<9.6	<48	<48	<60
Discrete Hand-Auger Boring Soil Samples													
SB-001-01	1	4/29/2019	0.0	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<9.7	<48	<48	<65
SB-002-01	1	4/29/2019	0.0	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<11	<56	<56	<71
SB-003-01	1	7/19/2019	7.6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	<60
SB-005-01	1	7/19/2019	16.4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.7	<44	<44	<61
SB-007-01	1	6/13/2019	9.8	<0.028	<0.057	<0.057	<0.11	<0.11	<5.7	<11	<54	<54	<69
*SB-C	1	6/13/2019	9.8	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<57	<57	<68

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SB-009-01	1	6/13/2019	24.9	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<12	<59	<59	<76
SB-011-01	1	6/13/2019	18.9	<0.032	<0.065	<0.065	<0.13	<0.13	<6.5	<13	<66	<66	<80
SB-013-01	1	4/29/2019	0.7	<0.031	<0.063	<0.063	<0.13	<0.13	<6.3	<12	<58	<58	<77
SB-015-01	1	4/29/2019	1.6	<0.031	<0.061	<0.061	<0.12	<0.12	<6.1	<11	<55	<55	<75
SB-017-01	1	4/29/2019	1.5	<0.032	<0.064	<0.064	<0.13	<0.13	<6.4	<12	<60	<60	<79
SB-019-01	1	4/29/2019	3.3	<0.031	<0.061	<0.061	<0.12	<0.12	<6.1	<11	<56	<56	<75
*SB-B	1	4/29/2019	3.3	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<11	<57	<57	<76
SB-021-01	1	4/29/2019	3.4	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	14	<59	14	<72
SB-023-01	1	4/29/2019	2.4	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<12	<58	<58	<73
SB-025-01	1	4/29/2019	3.8	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<11	<57	<57	<73
SB-027-01	1	4/29/2019	4.3	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<11	<56	<56	<71
SB-029-01	1	4/29/2019	1.0	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<13	<63	<63	<75
SB-031-01	1	4/29/2019	0.9	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<8.7	<44	<44	<72
SB-033-01	1	4/29/2019	1.1	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	<9.4	<47	<47	<72
SB-035-01	1	4/29/2019	0.3	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<9.9	<49	<49	<76
SB-037-01	1	4/29/2019	1.3	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<9.8	<49	<49	<74
SB-039-01	1	4/29/2019	0.5	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<9.6	<48	<48	<77
*SB-A	1	4/29/2019	0.5	<0.032	<0.064	<0.064	<0.13	<0.13	<6.4	<13	<63	<63	<77
SB-041-01	1	4/29/2019	0.3	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<9.5	<48	<48	<71
SB-043-01	1	4/29/2019	0.8	<0.030	<0.061	<0.061	<0.12	<0.12	<6.1	<9.6	<48	<48	<74
SB-045-01	1	4/29/2019	1.0	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<9.9	<50	<50	<73
SB-047-01	1	4/29/2019	0.8	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<9.6	<48	<48	<73
SB-049-01	1	4/29/2019	0.8	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<9.2	<46	<46	<71
SB-051-01	1	4/29/2019	1.2	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<10	<50	<50	<70
SB-053-01	1	4/29/2019	0.8	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<9.1	<46	<46	<71
SB-055-01	1	4/29/2019	0.6	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<9.7	<49	<49	<75
SB-057-01	1	4/29/2019	5.6	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<9.1	<45	<45	<68

TABLE 3
SOIL ANALYTICAL RESULTS

NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SB-059-01	1	4/29/2019	0.8	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<9.8	<49	<49	<69
SB-061-01	1	4/29/2019	0.6	<0.029	<0.057	<0.057	<0.11	<0.11	<5.7	<9.4	<47	<47	<70
SB-063-01	1	4/29/2019	1.5	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<9.2	<46	<46	<68
SB-065-01	1	4/29/2019	1.3	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<9.9	<50	<50	<69
SB-067-01	1	4/29/2019	1.2	<0.028	<0.057	<0.057	<0.11	<0.11	<5.7	<10	<50	<50	<71
SB-069-01	1	4/29/2019	1.0	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<10	<50	<50	<70
SB-075-01	1	4/29/2019	2.6	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<11	<57	<57	<70
SB-077-01	1	4/29/2019	1.0	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	<11	<55	<55	<71
SB-079-01	1	4/29/2019	1.4	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<12	<60	<60	150
SB-081-01	1	4/29/2019	1.5	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<11	<57	<57	120
SB-083-01	1	4/29/2019	1.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<51	<51	<63
SB-085-01	1	4/29/2019	0.6	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<10	<52	<52	150
SB-087-01	1	4/29/2019	0.6	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	<11	<56	<56	<66
SB-089-01	1	4/29/2019	1.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<11	<53	<53	<64
SB-091-01	1	4/29/2019	0.8	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<9.9	<49	<49	<66
SB-093-01	1	4/29/2019	2.0	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<10	<52	<52	86
SB-095-01	1	4/29/2019	1.0	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<12	<59	<59	84
SB-097-01	1	4/29/2019	481.0	<0.027	<0.055	<0.055	0.47	0.47	33	210	64	307	110
SB-097-03	3	4/29/2019	33.8	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<11	<53	<53	<64
SB-099-01	1	4/29/2019	0.8	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	<11	<55	<55	<67
SB-101-01	1	4/29/2019	2.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<51	<51	<62
SB-103-01	1	4/29/2019	3.8	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<10	<50	<50	<63
SB-104-01	1	4/29/2019	4.2	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<12	<58	<58	<68
SB-104-01R	1	7/19/2019	5.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60
SB-106-01	1	7/19/2019	102.1	<0.025	<0.050	<0.050	<0.099	<0.099	54.0	300	160	514	<60
SB-106-01R	1	8/2/2019	1.6	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<11	<55	<55	<68
SB-106-03	3	7/19/2019	15.9	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<47	<47	<60

TABLE 3
SOIL ANALYTICAL RESULTS

NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SB-107-01	1	7/19/2019	9.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
SB-108-01	1	7/19/2019	9.1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	17	<46	17	<59
SB-109-01	1	7/19/2019	22.1	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<59
SB-110-01	1	7/19/2019	5.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<47	<61
SB-111-01	1	7/19/2019	0.7	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	<60
*SB-C	1	7/19/2019	0.7	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	<60
SB-Pit-01	1	4/29/2019	3.8	<0.028	<0.055	<0.055	<0.11	<0.11	<5.5	<11	<55	<55	<67
SB-Pit-07	7	4/29/2019	0.2	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<10	<52	<52	<67
Discrete Grab Soil Samples													
GR-01	0.25	4/29/2019	1.3	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<12	<58	<58	<75
GR-02	0.25	4/29/2019	0.7	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<12	<61	<61	90
GR-03	0.25	4/29/2019	0.5	<0.032	<0.063	<0.063	<0.13	<0.13	<6.3	<13	<64	<64	160
GR-04	0.25	4/29/2019	0.9	<0.032	<0.064	<0.064	<0.13	<0.13	<6.4	<12	<62	<62	<79
GR-05	0.25	4/29/2019	0.4	<0.030	<0.061	<0.061	<0.12	<0.12	<6.1	<12	<61	<61	<75
GR-06	0.25	4/29/2019	0.6	<0.030	<0.060	<0.060	<0.12	<0.12	<6.0	<11	<57	<57	<72
GR-07	0.25	4/29/2019	3,521.0	<0.026	0.11	0.27	2.2	2.58	46	4,400	1,500	5,946	<64
GR-07R	1	6/13/2019	>15,000	<0.059	<0.12	<0.12	<0.24	<0.24	55.0	920	300	1,275	<72
GR-07RR	1	8/2/2019	581	<0.024	<0.047	<0.047	0.13	0.13	77	1,900	650	2,627	<71
GR-07RRR	0.6	9/4/2019	6.2	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	<12	<58	<58	<72

**TABLE 3
SOIL ANALYTICAL RESULTS**

**NEU #315H
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES LLC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
5-Point Composite Excavation Confirmation Soil Samples													
EX-SW01	0-4	6/13/2019	3.6	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<10	<52	<52	82
EX-SW02	0-4	6/13/2019	13.6	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<10	<52	<52	80
EX-FS01	4	6/13/2019	2,016	<0.026	<0.052	<0.052	<0.10	<0.10	5.7	410	180	595.7	<63
EX-FS01R	5	7/19/2019	1.4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	460	250	710	<60
EX-FS01RR	6	8/2/2019	2.3	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	<12	<58	<58	<71
EX-FS02	4	6/13/2019	7.1	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<9.6	<48	<48	70
NMOCD Table 1 Closure Criteria				10	NE	NE	NE	50	NE	NE	NE	100	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

EX- excavation confirmation soil sample

FS- floor soil sample

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NE - not established

NMOCD - New Mexico Oil Conservation Division

PID - photoionization detector

ppm - parts per million

SW- sidewall soil sample

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

* - indicates field duplicate sample for soil sample immediately preceding

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29

TABLE 4
QUALITY CONTROL ANALYTICAL RESULTS

NEU #315H RELEASE RESPONSE
SANDOVAL COUNTY, NEW MEXICO
ENDURING RESOURCES, LLC

SAMPLE NAME	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	TOTAL XYLENES (µg/L)
<i>Rinsate Blanks</i>					
RB-042919	4/29/2019	<1.0	<1.0	<1.0	<1.5
RB-050819	5/8/2019	<1.0	<1.0	<1.0	<1.5
RB-061319	6/13/2019	<1.0	<1.0	<1.0	<1.5
RB-071919	7/19/2019	<1.0	<1.0	<1.0	<1.5
RB-080219	8/2/2019	<1.0	<1.0	<1.0	<1.5
RB-090419	9/4/2019	<1.0	<1.0	<1.0	<2.0
<i>Field Blanks</i>					
FB-042919	4/29/2019	<1.0	<1.0	<1.0	<1.5
FB-050819	5/8/2019	<1.0	<1.0	<1.0	<1.5
FB-061319	6/13/2019	<1.0	<1.0	<1.0	<1.5
FB-071919	7/19/2019	<1.0	<1.0	<1.0	<1.5
FB-080219	8/2/2019	<1.0	<1.0	<1.0	<1.5
FB-090419	9/4/2019	<1.0	<1.0	<1.0	<2.0
<i>Trip Blanks</i>					
Trip Blank A	4/29/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank B	4/29/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank C	4/29/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank D	5/8/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank E	6/13/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank F	7/19/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank G	8/2/2019	<1.0	<1.0	<1.0	<1.5
Trip Blank H	9/4/2019	<1.0	<1.0	<1.0	<2.0
NMWQCC Standard		10	750	750	620

NOTES:

FB - field blank

µg/L - micrograms per liter

NMWQCC - New Mexico Water Quality Control Commission

RB - rinsate blank

< - indicates result is less than the stated laboratory reporting limit



APPENDIX A: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: View of release in cut bank area prior to Dam 3A/B.



Photograph 2: Initial emergency response activities.



Photograph 3: View of oil absorbent boom in wash.



Photograph 4: Overflow Dam 5 with absorbent booms.



Photograph 5: Surface wash excavation between Dam 3A and 3B.



Photograph 6: Excavation behind Dam 2.



Photograph 7: Initial confirmation soil sampling activities in April 2019.



Photograph 8: Trench excavation below roadside culvert.



Photograph 9: Cutbank area between Dam 3A and 3B.



Photograph 10: Thin lens of impact where GR-07 was collected in cutbank.



Photograph 11: Drill holes in cutbank prior to amendment application.



Photograph 12: Microblaze amendment application to cutbank.

APPENDIX B: LABORATORY ANALYTICAL REPORTS





ANALYTICAL REPORT

March 06, 2019

LT Environmental

Sample Delivery Group: L1075359
Samples Received: 03/05/2019
Project Number: 077919003
Description: Nev 315H

Report To: Josh Adams
848 East Second Ave
Durango, CO 81301

Entire Report Reviewed By:

Daphne Richards
Project Manager

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

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WS-01 L1075359-01 GW

Collected by
Josh Adams

Collected date/time
03/01/19 09:10

Received date/time
03/05/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1245044	1	03/05/19 19:42	03/05/19 19:42	DWR	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

WS-02 L1075359-02 GW

Collected by
Josh Adams

Collected date/time
03/01/19 14:20

Received date/time
03/05/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1245044	1	03/05/19 20:03	03/05/19 20:03	DWR	Mt. Juliet, TN

WS-02 L1075359-03 GW

Collected by
Josh Adams

Collected date/time
03/01/19 14:20

Received date/time
03/05/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1245223	1	03/05/19 15:32	03/05/19 15:32	ELN	Mt. Juliet, TN

TRIP BLANK L1075359-04 GW

Collected by
Josh Adams

Collected date/time
03/01/19 00:00

Received date/time
03/05/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1245044	1	03/05/19 20:23	03/05/19 20:23	DWR	Mt. Juliet, TN

CASE NARRATIVE



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

Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ AI

⁹ Sc

WS-01

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 03/01/19 09:10

L1075359

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/05/2019 19:42	WG1245044
Toluene	0.00206		0.00100	1	03/05/2019 19:42	WG1245044
Ethylbenzene	0.000996		0.000500	1	03/05/2019 19:42	WG1245044
Total Xylene	0.00767		0.00150	1	03/05/2019 19:42	WG1245044
(S) a,a,a-Trifluorotoluene(PID)	98.2		79.0-125		03/05/2019 19:42	WG1245044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WS-02

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 03/01/19 14:20

L1075359

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/05/2019 20:03	WG1245044
Toluene	ND		0.00100	1	03/05/2019 20:03	WG1245044
Ethylbenzene	ND		0.000500	1	03/05/2019 20:03	WG1245044
Total Xylene	ND		0.00150	1	03/05/2019 20:03	WG1245044
(S) o,a,a-Trifluorotoluene(PID)	99.1		79.0-125		03/05/2019 20:03	WG1245044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WS-02

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 03/01/19 14:20

L1075359

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1.63		1.00	1	03/05/2019 15:32	WG1245223

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

TRIP BLANK

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.



Collected date/time: 03/01/19 00:00

L1075359

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/05/2019 20:23	WG1245044
Toluene	ND		0.00100	1	03/05/2019 20:23	WG1245044
Ethylbenzene	ND		0.000500	1	03/05/2019 20:23	WG1245044
Total Xylene	ND		0.00150	1	03/05/2019 20:23	WG1245044
(S) a,a,a-Trifluorotoluene(PID)	98.9		79.0-125		03/05/2019 20:23	WG1245044

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1245223

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 9056A

L1075359-03

Method Blank (MB)

(MB) R3388924-1 03/05/19 11:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1072975-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1072975-02 03/05/19 12:48 • (DUP) R3388924-3 03/05/19 13:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	1130	1130	1	0.321	E	15

Laboratory Control Sample (LCS)

(LCS) R3388924-2 03/05/19 11:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.7	102	80.0-120	

L1072975-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1072975-02 03/05/19 12:48 • (MS) R3388924-4 03/05/19 13:18 • (MSD) R3388924-5 03/05/19 13:33

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	1130	1120	1120	0.000	0.000	1	80.0-120	E V	E V	0.157	15

WG1245044

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021B

[L1075359-01.02.04](#)

Method Blank (MB)

(MB) R3389012-3 03/05/19 18:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	98.9			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3389012-1 03/05/19 17:46 • (LCSD) R3389012-2 03/05/19 18:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0559	0.0526	112	105	77.0-122			6.05	20
Toluene	0.0500	0.0520	0.0487	104	97.4	80.0-121			6.63	20
Ethylbenzene	0.0500	0.0542	0.0509	108	102	80.0-123			6.32	20
Total Xylene	0.150	0.161	0.151	107	100	47.0-154			6.62	20
(S) a,a,a-Trifluorotoluene(PID)				99.5	99.6	79.0-125				

L1075042-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1075042-13 03/06/19 02:01 • (MS) R3389012-4 03/06/19 02:22 • (MSD) R3389012-5 03/06/19 02:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.114	0.180	0.168	132	108	1	10.0-160			6.88	21
Toluene	0.0500	U	0.0596	0.0522	119	104	1	12.0-148			13.1	21
Ethylbenzene	0.0500	0.0291	0.0913	0.0827	124	107	1	22.0-149			9.88	21
Total Xylene	0.150	U	0.208	0.186	139	124	1	13.0-155	J5		11.3	21
(S) a,a,a-Trifluorotoluene(PID)					104	103		79.0-125				

GLOSSARY OF TERMS



Guide to Reading and Understanding Your Laboratory Report

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

Abbreviations and Definitions

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

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

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

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

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1 4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Third Party Federal Accreditations

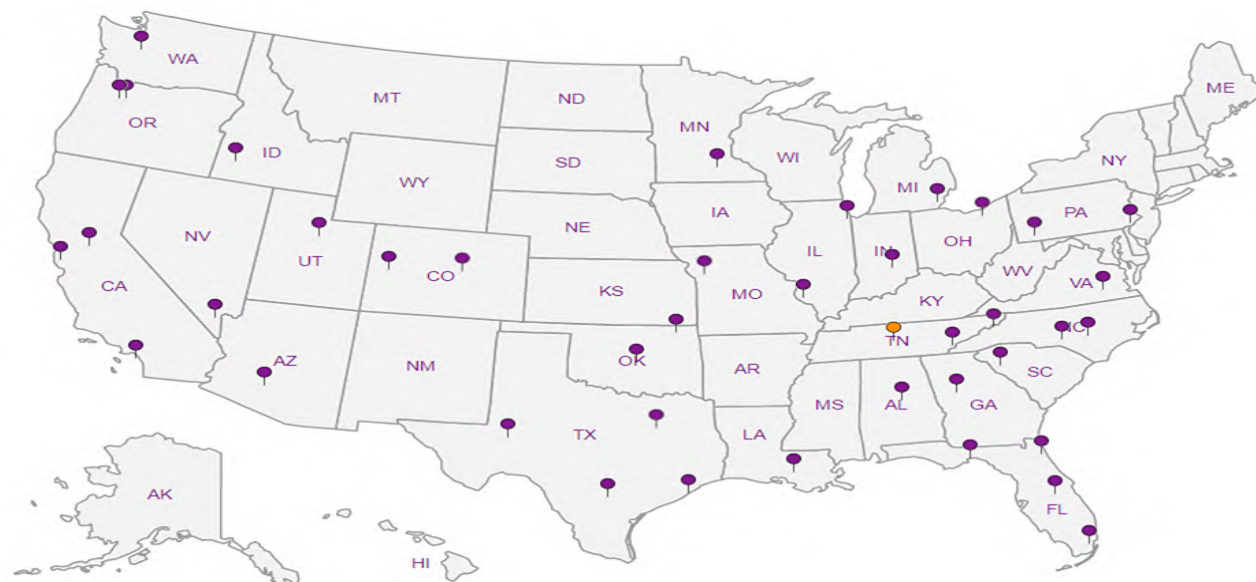
A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP, LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234



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

Our Locations

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



D136

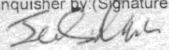

Company Name/Address LT ENVIRONMENTAL, INC. 2243 Main Avenue, Ste. 3 DURANGO, CO 81301				Alternate Billing LTENVCO1018125				Analysis/Container/Preservative				Chain of Custody Page ___ of ___			
Project Description: NEU 315H				City/State Collected: NM				Prepared by:  ENVIRONMENTAL SCIENCE CORP 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859				CoCode (lab use only) LTENVCO Template/Prelogin Shipped Via: Fed Ex 1075359			
PHONE: 970-946-1093 FAX: 970-385-1873				Client Project No. 077919003											
Collected by: Josh Adams				Site/Facility ID#				P.O.#				Remarks/contaminant		Sample # (lab only)	
Collected by (signature): 				<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified) <input checked="" type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%				Date Results Needed 3/8/19 Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes							
Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>															
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	8021B	8015-DRO/ORO	8015-GRO	Chorides					
WS-01	Grab	H2O		3-1-19	09:10	3	↓	↓						-01	
WS-02	↓	↓		3-1-19	14:20	6	↓	↓						02	
WS-03	↓	↓		3-1-19	14:20	1	↓	↓						03	
Trip Blank						2	↓	↓						04	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other

pH _____ Temp _____

Remarks:

Flow _____ Other _____

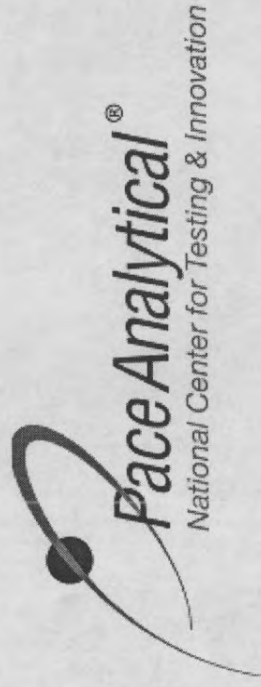
Relinquisher by (Signature) 	Date: 3-7-19	Time: 15:30	Received by (Signature) 	Samples returned via: Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition (lab use only)
Relinquisher by (Signature)	Date:	Time:	Received by (Signature)	Temp: 4.3-0.2=4.15	Bottles Received: 10
Relinquisher by (Signature)	Date:	Time:	Received for lab by (Signature) am	Date: 3/5/19	Time: 9:00
				RAD SCREEN: <0.5 mPa/hr NCF	
				pH Checked: _____ NCF: _____	

7852 7857 4156 Trip Blank 2

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <i>LTENVCO</i>	SDG#:	<i>1075359</i>	
Cooler Received/Opened On: <i>3 / 05 /19</i>	Temperature:	<i>4.1</i>	
Received By: Cole Medley			
Signature: <i>[Signature]</i>			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<i>/</i>		
COC Signed / Accurate?		<i>/</i>	
Bottles arrive intact?		<i>/</i>	
Correct bottles used?		<i>/</i>	
Sufficient volume sent?		<i>/</i>	
If Applicable			
VOA Zero headspace?		<i>/</i>	
Preservation Correct / Checked?			

Kelsey Stephenson



Login #:L1075359	Client:LTENVCO	Date:03/05	Evaluated by:Kelsey S
------------------	----------------	------------	-----------------------

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time x	Login Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	Improper handling by carrier (FedEx / UPS / Courier)
pH not in range.	Please specify TCLP requested.	Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	If no Chain of Custody:
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

Login Comments:**Only received:****3 40ml-HCL vials for WS-01****6 40ml-HCL vials for WS-02****1 500ml-nopres for WS-03**

Client informed by:	Call	Email	X	Voice Mail	Date:3/5	Time: 1255
TSR Initials:DR	Client Contact: JA					

Login Instructions:

WS-01 Note limited sample volume. Log for BTEX, DROOROLVI.

WS-02 Log for BTEX, DROOROLVI

WS-03 log for chloride only



ANALYTICAL REPORT

March 11, 2019

Enduring Resources

Sample Delivery Group: L1076219
Samples Received: 03/07/2019
Project Number: NEU #315H
Description: NEU #315H
Site: NEU #315H
Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards
Project Manager

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

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		<div><div>9</div>Sc</div>

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WS-03 L1076219-01 GW				Collected by DB/CM	Collected date/time 03/04/19 15:45	Received date/time 03/07/19 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1246555	1	03/08/19 02:32	03/08/19 02:32	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1246656	2	03/07/19 18:15	03/07/19 18:15	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1246916	2	03/09/19 14:53	03/09/19 14:53	DWR	Mt. Juliet, TN	

1
Cp

2
Tc

3
Ss

4
Cn

WS-04 L1076219-02 GW				Collected by DB/CM	Collected date/time 03/05/19 16:08	Received date/time 03/07/19 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1246555	1	03/08/19 02:47	03/08/19 02:47	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1246656	2	03/07/19 18:39	03/07/19 18:39	BMB	Mt. Juliet, TN	

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

CASE NARRATIVE



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

Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

WS-03

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 03/04/19 15:45

L1076219

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.23		1.00	1	03/08/2019 02:32	WG1246555

1
Cp

2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	2	03/09/2019 14:53	WG1246916
Toluene	ND		0.00200	2	03/07/2019 18:15	WG1246656
Ethylbenzene	ND		0.00100	2	03/07/2019 18:15	WG1246656
Total Xylene	ND		0.00300	2	03/07/2019 18:15	WG1246656
(S) a,a,a-Trifluorotoluene(PID)	96.2		79.0-125		03/07/2019 18:15	WG1246656
(S) a,a,a-Trifluorotoluene(PID)	96.3		79.0-125		03/09/2019 14:53	WG1246916

3
Ss

4
Cn

5
Sr

6
Qc

Sample Narrative:

L1076219-01 WG1246916: Lowest possible dilution due to sediment in sample vial.

7
Gl

8
Al

9
Sc

WS-04

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 03/05/19 16:08

L1076219

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	21.5		1.00	1	03/08/2019 02:47	WG1246555

1
Cp2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	2	03/07/2019 18:39	WG1246656
Toluene	ND		0.00200	2	03/07/2019 18:39	WG1246656
Ethylbenzene	ND		0.00100	2	03/07/2019 18:39	WG1246656
Total Xylene	ND		0.00300	2	03/07/2019 18:39	WG1246656
(S) a,a,a-Trifluorotoluene(PID)	96.5		79.0-125		03/07/2019 18:39	WG1246656

3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WG1246555

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 9056A

[L1076219-01,02](#)

Method Blank (MB)

(MB) R3389858-1 03/07/19 09:14				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1076196-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1076196-02 03/07/19 17:36 • (DUP) R3389858-3 03/07/19 17:50						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	5.86	5.86	1	0.0290		15

L1076197-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1076197-03 03/07/19 22:04 • (DUP) R3389858-6 03/07/19 22:19						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	13.5	13.5	1	0.0905		15

Laboratory Control Sample (LCS)

(LCS) R3389858-2 03/07/19 09:28					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.5	98.7	80.0-120	

L1076196-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076196-02 03/07/19 17:36 • (MS) R3389858-4 03/07/19 18:05 • (MSD) R3389858-5 03/07/19 18:20												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	5.86	55.6	55.5	99.6	99.3	1	80.0-120			0.248	15

L1076197-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1076197-03 03/07/19 22:04 • (MS) R3389858-7 03/07/19 22:34							
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	13.5	63.7	100	1	80.0-120	

WG1246656

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021B

[L1076219-01,02](#)

Method Blank (MB)

(MB) R3389749-2 03/07/19 12:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	95.8			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3389749-1 03/07/19 10:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0521	104	77.0-122	
Toluene	0.0500	0.0480	95.9	80.0-121	
Ethylbenzene	0.0500	0.0491	98.1	80.0-123	
Total Xylene	0.150	0.155	103	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			96.5	79.0-125	

WG1246916

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021B

[L1076219-01](#)

Method Blank (MB)

(MB) R3390230-2 03/09/19 13:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	96.2			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3390230-1 03/09/19 12:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0506	101	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			96.7	79.0-125	

GLOSSARY OF TERMS



Guide to Reading and Understanding Your Laboratory Report

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

Abbreviations and Definitions

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

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

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

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

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

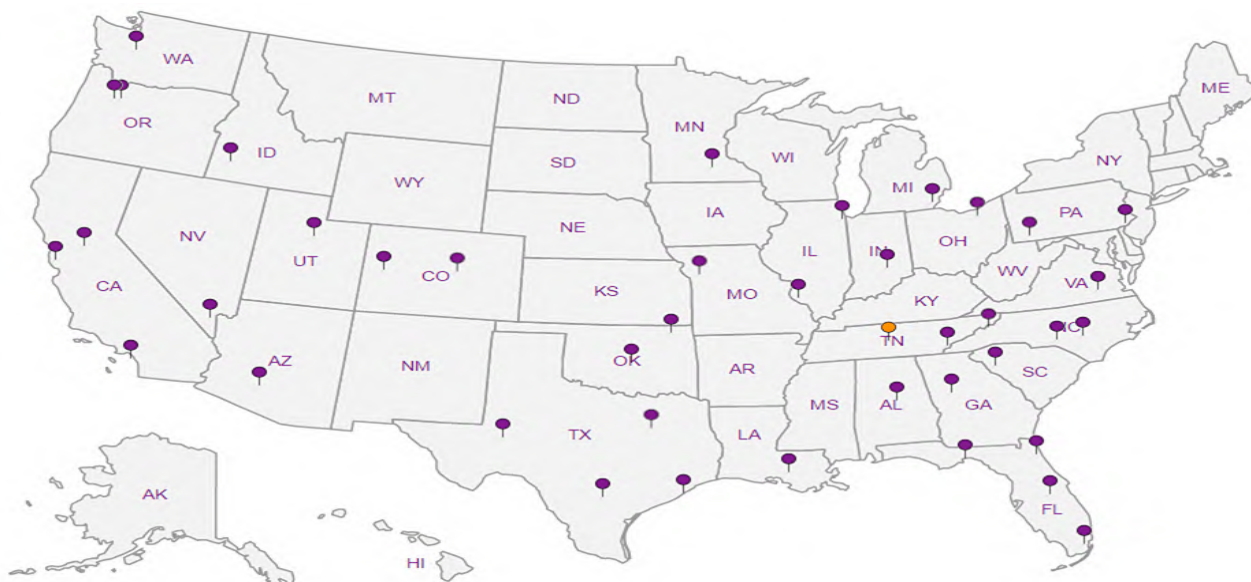
Third Party Federal Accreditations


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

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

Our Locations

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



 CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here											
Company: Enduring Resources, LLC Address: 1050 17th St, Suite 2500 Denver, CO 80265 Report To: James McDaniel Copy To: aager@ltenv.com ; dburns@ltenv.com Customer Project Name/Number: NEU #315H Phone: 505-636-9731 Email: jmcDaniel@enduringresources.com Collected By (print): D. Burns/C. McGinn Collected By (signature): Sample Disposal: <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive: _____ <input type="checkbox"/> Hold: _____					Billing Information: Bill to Enduring, attn James McDaniel Email To: jmcDaniel@enduringresources.com Site Collection Info/Address: NEU #315H State: County/City: Time Zone Collected: NM / Sandoval [] PT <input checked="" type="checkbox"/> MT [] CT [] ET Compliance Monitoring? <input type="checkbox"/> Yes <input type="checkbox"/> No DW PWS ID #: DW Location Code: Immediately Packed on Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered (if applicable): <input type="checkbox"/> Yes <input type="checkbox"/> No Analysis: _____					ALL SHADED AREAS are for LAB USE ONLY											
										Container Preservative Type **					Lab Project Manager:						
										** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other											
										Analyses					Lab Profile/Line:						
										Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____											
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)										LAB USE ONLY: Lab Sample # / Comments: <div style="font-size: 2em; text-align: center;">L1076219</div>											
Customer Sample ID		Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns												
				Date	Time	Date	Time														
WS-03		GW	Grab	3/4/19	15:45				5												
WS-04		GW	Grab	3/5/2019	16:08				4												
										RAD SCREEN: <0.5 mCi											
Customer Remarks / Special Conditions / Possible Hazards:										Type of Ice Used: Wet Blue Dry None Packing Material Used: _____ Radchem sample(s) screened (<500 cpm): Y N NA					SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: 4196 3254 6420 Samples received via: FEDEX UPS Client Courier Pace Courier						
Relinquished by/Company: (Signature)										Date/Time:		Received by/Company: (Signature)			Date/Time:		MTJL LAB USE ONLY Table #: C85 Acctnum: Template: Prelogin: PM: PB:				
Relinquished by/Company: (Signature)										Date/Time:		Received by/Company: (Signature)			Date/Time:		Trip Blank Received: Y N NA HCL MeOH TSP Other				
Relinquished by/Company: (Signature)										Date/Time:		Received by/Company: (Signature)			Date/Time:		Non Conformance(s): YES / NO Page: _____ of: _____				

2.2401 = 2.3



ANALYTICAL REPORT

March 17, 2019

Enduring Resources

Sample Delivery Group: L1078215
Samples Received: 03/13/2019
Project Number: 077919003
Description: NEU #315H

Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards
Project Manager

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

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SCRAPE 01 L1078215-01 Solid

				Collected by DB / CM	Collected date/time 03/08/19 16:40	Received date/time 03/13/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1249656	1	03/14/19 10:46	03/14/19 10:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1249390	1	03/14/19 17:30	03/15/19 11:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1249715	1	03/13/19 15:28	03/14/19 12:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1249556	1	03/13/19 21:59	03/14/19 11:24	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

SURFACE 01 L1078215-02 Solid

				Collected by DB / CM	Collected date/time 03/08/19 16:45	Received date/time 03/13/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1249656	1	03/14/19 10:46	03/14/19 10:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1249390	1	03/14/19 17:30	03/15/19 11:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1249715	100	03/13/19 15:28	03/14/19 12:21	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1249556	200	03/13/19 21:59	03/14/19 15:39	KME	Mt. Juliet, TN

CASE NARRATIVE



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

Daphne Richards
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SCRAPE 01

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 03/08/19 16:40

L1078215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	03/14/2019 10:55	WG1249656

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	27.1	<u>B</u>	11.5	1	03/15/2019 11:07	WG1249390

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00180		0.000574	1	03/14/2019 12:01	WG1249715
Toluene	ND		0.00574	1	03/14/2019 12:01	WG1249715
Ethylbenzene	0.00109	<u>J3</u>	0.000574	1	03/14/2019 12:01	WG1249715
Total Xylene	0.00395		0.00172	1	03/14/2019 12:01	WG1249715
TPH (GC/FID) Low Fraction	0.402		0.115	1	03/14/2019 12:01	WG1249715
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	90.7		77.0-120		03/14/2019 12:01	WG1249715
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	93.3		72.0-128		03/14/2019 12:01	WG1249715

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	11.2		4.60	1	03/14/2019 11:24	WG1249556
C28-C40 Oil Range	4.60		4.60	1	03/14/2019 11:24	WG1249556
(S) <i>o</i> -Terphenyl	82.1		18.0-148		03/14/2019 11:24	WG1249556

SURFACE 01

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 03/08/19 16:45

L1078215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	03/14/2019 10:55	WG1249656

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	35.2	<u>B</u>	11.4	1	03/15/2019 11:24	WG1249390

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.146		0.0571	100	03/14/2019 12:21	WG1249715
Toluene	ND		0.571	100	03/14/2019 12:21	WG1249715
Ethylbenzene	0.378		0.0571	100	03/14/2019 12:21	WG1249715
Total Xylene	4.71	<u>J6</u>	0.171	100	03/14/2019 12:21	WG1249715
TPH (GC/FID) Low Fraction	269		11.4	100	03/14/2019 12:21	WG1249715
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	92.7		77.0-120		03/14/2019 12:21	WG1249715
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	95.2		72.0-128		03/14/2019 12:21	WG1249715

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	19500		914	200	03/14/2019 15:39	WG1249556
C28-C40 Oil Range	8310		914	200	03/14/2019 15:39	WG1249556
(S) <i>o</i> -Terphenyl	0.000	<u>J7</u>	18.0-148		03/14/2019 15:39	WG1249556

WG1249656

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1078215-01,02](#)

Method Blank (MB)

(MB) R3391902-1 03/14/19 10:55

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

¹ Cp

² Tc

³ Ss

L1078340-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1078340-01 03/14/19 10:55 • (DUP) R3391902-3 03/14/19 10:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	93.1	93.6	1	0.539		10

⁴ Cn

⁵ Sr

⁶ Qc

Laboratory Control Sample (LCS)

(LCS) R3391902-2 03/14/19 10:55

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

⁷ Gl

⁸ Al

⁹ Sc

WG1249390

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 9056A

[L1078215-01,02](#)

Method Blank (MB)

(MB) R3392075-1 03/15/19 08:11				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	3.43	J	0.795	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1077354-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1077354-18 03/15/19 08:59 • (DUP) R3392075-3 03/15/19 09:07						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	7.49	7.43	1	0.764	J	15

L1078215-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1078215-01 03/15/19 11:07 • (DUP) R3392075-4 03/15/19 11:15						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	27.1	27.5	1	1.39		15

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3392075-2 03/15/19 08:19					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	200	100	80.0-120	

L1077354-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1077354-19 03/15/19 11:49 • (MS) R3392075-5 03/15/19 11:58 • (MSD) R3392075-6 03/15/19 12:06												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	531	9.63	529	535	97.9	99.0	1	80.0-120			1.12	15

WG1249715

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015/8021

L1078215-01,02

Method Blank (MB)

(MB) R3391848-5 03/14/19 11:09				
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000170	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0274	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	96.0			72.0-128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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

(LCS) R3391848-1 03/14/19 09:26 • (LCSD) R3391848-2 03/14/19 09:46										
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0541	0.0449	108	89.7	76.0-121			18.7	20
Toluene	0.0500	0.0526	0.0435	105	87.0	80.0-120			19.0	20
Ethylbenzene	0.0500	0.0550	0.0408	110	81.7	80.0-124		J3	29.6	20
Total Xylene	0.150	0.163	0.134	108	89.1	37.0-160			19.5	20
(S) a,a,a-Trifluorotoluene(FID)				92.1	92.0	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				92.9	94.1	72.0-128				

7 Gl

8 Al

9 Sc

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

(LCS) R3391848-3 03/14/19 10:07 • (LCSD) R3391848-4 03/14/19 10:28										
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.68	4.74	85.1	86.2	72.0-127			1.28	20
(S) a,a,a-Trifluorotoluene(FID)				102	101	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				99.8	99.6	72.0-128				

WG1249715

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8015/8021

L1078215-01,02

L1078215-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1078215-02 03/14/19 12:21 • (MS) R3391848-6 03/14/19 18:13 • (MSD) R3391848-7 03/14/19 18:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0571	0.146	4.51	4.93	76.3	83.8	100	10.0-155			9.03	32
Toluene	0.0571	ND	4.18	4.57	67.9	74.8	100	10.0-160			8.96	34
Ethylbenzene	0.0571	0.378	4.75	5.20	76.6	84.5	100	10.0-160			9.06	32
Total Xylene	0.171	4.71	17.0	18.3	71.5	79.5	100	10.0-160	J6		7.77	32
(S) a,a,a-Trifluorotoluene(FID)					88.9	88.9		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					93.9	94.1		72.0-128				

L1078215-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1078215-02 03/14/19 12:21 • (MS) R3391848-8 03/14/19 18:55 • (MSD) R3391848-9 03/14/19 19:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.28	269	865	842	94.8	91.1	100	10.0-151			2.75	28
(S) a,a,a-Trifluorotoluene(FID)					103	102		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					103	103		72.0-128				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1249556

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1078215-01,02](#)

Method Blank (MB)

(MB) R3391677-1 03/14/19 09:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	97.3			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3391677-2 03/14/19 09:58 • (LCSD) R3391677-3 03/14/19 10:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	50.0	32.6	32.7	65.2	65.4	50.0-150			0.306	20
C10-C28 Diesel Range	50.0	35.3	35.6	70.6	71.2	50.0-150			0.846	20
(S) o-Terphenyl				97.9	99.8	18.0-148				

GLOSSARY OF TERMS



Guide to Reading and Understanding Your Laboratory Report

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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

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

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

State Accreditations

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

Third Party Federal Accreditations

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

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

Our Locations

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



E064



ANALYTICAL REPORT

March 19, 2019

Enduring Resources

Sample Delivery Group: L1079227
Samples Received: 03/15/2019
Project Number: NEU #315H
Description: NEU #315H

Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards
Project Manager

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

Cp: Cover Page	1	<div>¹Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div>²Tc</div>
Cn: Case Narrative	4	
Sr: Sample Results	5	<div>³Ss</div>
WS-05 L1079227-01	5	<div>⁴Cn</div>
WS-06 L1079227-02	6	
Qc: Quality Control Summary	7	<div>⁵Sr</div>
Wet Chemistry by Method 9056A	7	
Volatile Organic Compounds (GC) by Method 8021B	8	<div>⁶Qc</div>
Gl: Glossary of Terms	9	<div>⁷Gl</div>
Al: Accreditations & Locations	10	<div>⁸Al</div>
Sc: Sample Chain of Custody	11	<div>⁹Sc</div>

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WS-05 L1079227-01 GW				Collected by DB/CM	Collected date/time 03/12/19 11:15	Received date/time 03/15/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1250856	1	03/16/19 16:18	03/16/19 16:18	ST	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1250835	2	03/16/19 07:43	03/16/19 07:43	ACG	Mt. Juliet, TN	
WS-06 L1079227-02 GW				Collected by DB/CM	Collected date/time 03/13/19 11:15	Received date/time 03/15/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1250856	1	03/16/19 16:34	03/16/19 16:34	ST	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1250835	2	03/16/19 08:07	03/16/19 08:07	ACG	Mt. Juliet, TN	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

CASE NARRATIVE



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

Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ AI

⁹ Sc

WS-05

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 03/12/19 11:15

L1079227

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	16.8		1.00	1	03/16/2019 16:18	WG1250856

1
Cp2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	2	03/16/2019 07:43	WG1250835
Toluene	ND		0.00200	2	03/16/2019 07:43	WG1250835
Ethylbenzene	ND		0.00100	2	03/16/2019 07:43	WG1250835
Total Xylene	ND		0.00300	2	03/16/2019 07:43	WG1250835
(S) a,a,a-Trifluorotoluene(PID)	96.7		79.0-125		03/16/2019 07:43	WG1250835

3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WS-06

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 03/13/19 11:15

L1079227

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	20.0		1.00	1	03/16/2019 16:34	WG1250856

1
Cp2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	2	03/16/2019 08:07	WG1250835
Toluene	ND		0.00200	2	03/16/2019 08:07	WG1250835
Ethylbenzene	ND		0.00100	2	03/16/2019 08:07	WG1250835
Total Xylene	ND		0.00300	2	03/16/2019 08:07	WG1250835
(S) a,a,a-Trifluorotoluene(PID)	96.9		79.0-125		03/16/2019 08:07	WG1250835

3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WG1250856

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 9056A

[L1079227-01.02](#)

Method Blank (MB)

(MB) R3392505-1 03/16/19 12:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1079190-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1079190-01 03/16/19 14:59 • (DUP) R3392505-3 03/16/19 15:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	7.68	7.76	1	1.09		15

L1079548-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1079548-05 03/16/19 18:57 • (DUP) R3392505-6 03/16/19 19:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	1.05	1.04	1	0.592		15

Laboratory Control Sample (LCS)

(LCS) R3392505-2 03/16/19 12:47

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.5	101	80.0-120	

L1079190-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1079190-01 03/16/19 14:59 • (MS) R3392505-4 03/16/19 15:30 • (MSD) R3392505-5 03/16/19 15:46

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	7.68	56.6	57.1	97.8	98.8	1	80.0-120			0.849	15

L1079548-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1079548-05 03/16/19 18:57 • (MS) R3392505-7 03/16/19 19:29

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	1.05	50.7	99.3	1	80.0-120	

WG1250835

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021B

[L1079227-01.02](#)

Method Blank (MB)

(MB) R3392591-3 03/16/19 06:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	96.9			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3392591-1 03/16/19 05:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0484	96.8	77.0-122	
Toluene	0.0500	0.0454	90.9	80.0-121	
Ethylbenzene	0.0500	0.0479	95.8	80.0-123	
Total Xylene	0.150	0.152	101	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			97.3	79.0-125	

GLOSSARY OF TERMS



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Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

State Accreditations

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

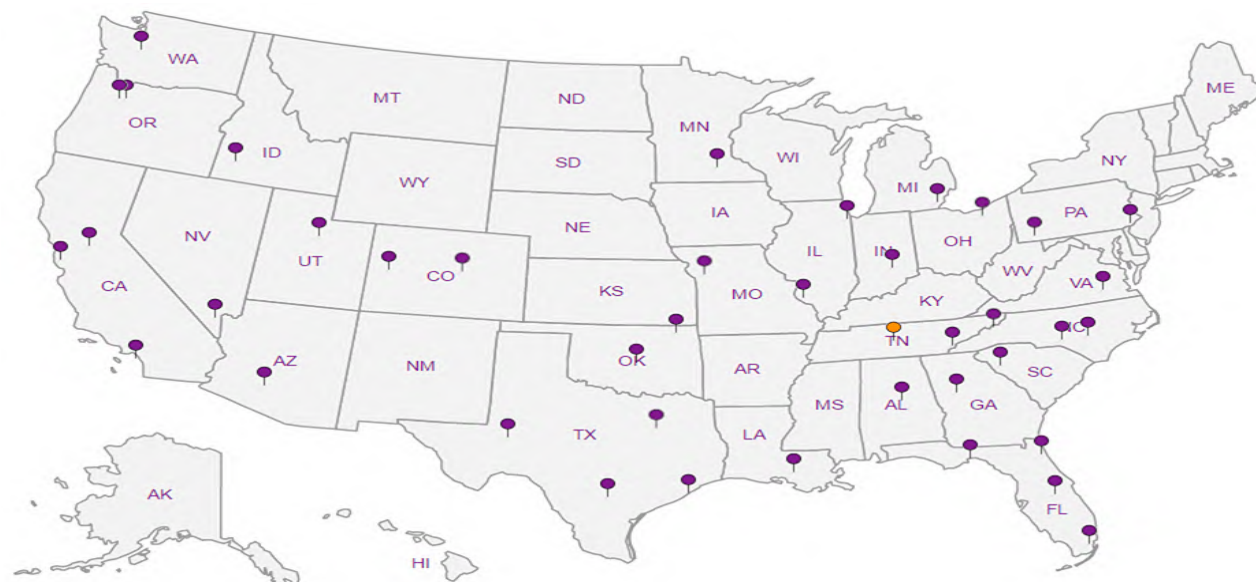
Third Party Federal Accreditations

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

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

Our Locations

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



[illegible]



ANALYTICAL REPORT

March 21, 2019

Enduring Resources

Sample Delivery Group: L1079976
Samples Received: 03/19/2019
Project Number:
Description: NEU #315H
Site: NEU #315H
Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards
Project Manager

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

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WS-07 L1079976-01 GW				Collected by DB/CM/CJ	Collected date/time 03/14/19 11:15	Received date/time 03/19/19 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1252510	1	03/21/19 05:03	03/21/19 05:03	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1252810	1	03/20/19 23:26	03/20/19 23:26	DWR	Mt. Juliet, TN	
WS-08 L1079976-02 GW				Collected by DB/CM/CJ	Collected date/time 03/15/19 12:40	Received date/time 03/19/19 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1252510	1	03/21/19 05:19	03/21/19 05:19	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1252810	1	03/20/19 23:47	03/20/19 23:47	DWR	Mt. Juliet, TN	
WS-09 L1079976-03 GW				Collected by DB/CM/CJ	Collected date/time 03/16/19 11:40	Received date/time 03/19/19 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9056A	WG1252510	1	03/21/19 05:35	03/21/19 05:35	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8021B	WG1252810	1	03/21/19 00:07	03/21/19 00:07	DWR	Mt. Juliet, TN	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

CASE NARRATIVE



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

Daphne Richards
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

WS-07

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 03/14/19 11:15

L1079976

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	17.7		1.00	1	03/21/2019 05:03	WG1252510

1
Cp

2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	03/20/2019 23:26	WG1252810
Toluene	ND		0.00100	1	03/20/2019 23:26	WG1252810
Ethylbenzene	ND		0.000500	1	03/20/2019 23:26	WG1252810
Total Xylene	ND		0.00150	1	03/20/2019 23:26	WG1252810
(S) a,a,a-Trifluorotoluene(PID)	99.3		79.0-125		03/20/2019 23:26	WG1252810

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

WS-08

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 03/15/19 12:40

L1079976

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	23.5		1.00	1	03/21/2019 05:19	WG1252510

1
Cp2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/20/2019 23:47	WG1252810
Toluene	ND		0.00100	1	03/20/2019 23:47	WG1252810
Ethylbenzene	ND		0.000500	1	03/20/2019 23:47	WG1252810
Total Xylene	ND		0.00150	1	03/20/2019 23:47	WG1252810
(S) a,a,a-Trifluorotoluene(PID)	98.4		79.0-125		03/20/2019 23:47	WG1252810

3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WS-09

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 03/16/19 11:40

L1079976

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	29.6		1.00	1	03/21/2019 05:35	WG1252510

1
Cp2
Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/21/2019 00:07	WG1252810
Toluene	ND		0.00100	1	03/21/2019 00:07	WG1252810
Ethylbenzene	ND		0.000500	1	03/21/2019 00:07	WG1252810
Total Xylene	ND		0.00150	1	03/21/2019 00:07	WG1252810
(S) a,a,a-Trifluorotoluene(PID)	99.7		79.0-125		03/21/2019 00:07	WG1252810

3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WG1252510

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 9056A

[L1079976-01.02.03](#)

Method Blank (MB)

(MB) R3393627-1 03/20/19 21:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1079198-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1079198-01 03/20/19 22:10 • (DUP) R3393627-3 03/20/19 22:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	4.77	4.76	1	0.273		15

L1078975-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1078975-06 03/21/19 00:17 • (DUP) R3393627-6 03/21/19 00:33

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	ND	0.000	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3393627-2 03/20/19 21:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.8	102	80.0-120	

L1079198-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1079198-01 03/20/19 22:10 • (MS) R3393627-4 03/20/19 22:41 • (MSD) R3393627-5 03/20/19 22:57

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	4.77	56.3	56.6	103	104	1	80.0-120			0.569	15

L1078975-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1078975-06 03/21/19 00:17 • (MS) R3393627-7 03/21/19 00:48

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	ND	51.1	102	1	80.0-120	

WG1252810

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Volatile Organic Compounds (GC) by Method 8021B

L1079976-01.02.03

Method Blank (MB)

(MB) R3393653-5 03/20/19 16:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	98.9			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3393653-1 03/20/19 14:39 • (LCSD) R3393653-2 03/20/19 14:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0586	0.0593	117	119	77.0-122			1.26	20
Toluene	0.0500	0.0540	0.0545	108	109	80.0-121			0.846	20
Ethylbenzene	0.0500	0.0584	0.0594	117	119	80.0-123			1.65	20
Total Xylene	0.150	0.178	0.182	119	121	47.0-154			1.89	20
(S) a,a,a-Trifluorotoluene(PID)				100	99.6	79.0-125				

L1079666-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1079666-30 03/20/19 22:46 • (MS) R3393653-6 03/21/19 00:27 • (MSD) R3393653-7 03/21/19 00:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.00130	0.0548	0.0570	107	111	1	10.0-160			3.93	21
Toluene	0.0500	0.00262	0.0525	0.0546	99.8	104	1	12.0-148			3.82	21
Ethylbenzene	0.0500	0.0207	0.0716	0.0741	102	107	1	22.0-149			3.41	21
Total Xylene	0.150	0.0293	0.187	0.195	105	111	1	13.0-155			4.13	21
(S) a,a,a-Trifluorotoluene(PID)					96.2	95.9		79.0-125				

GLOSSARY OF TERMS



Guide to Reading and Understanding Your Laboratory Report

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

Abbreviations and Definitions

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

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

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

State Accreditations

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

1

Cp

2

Tc

3

Ss

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Al

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Sc

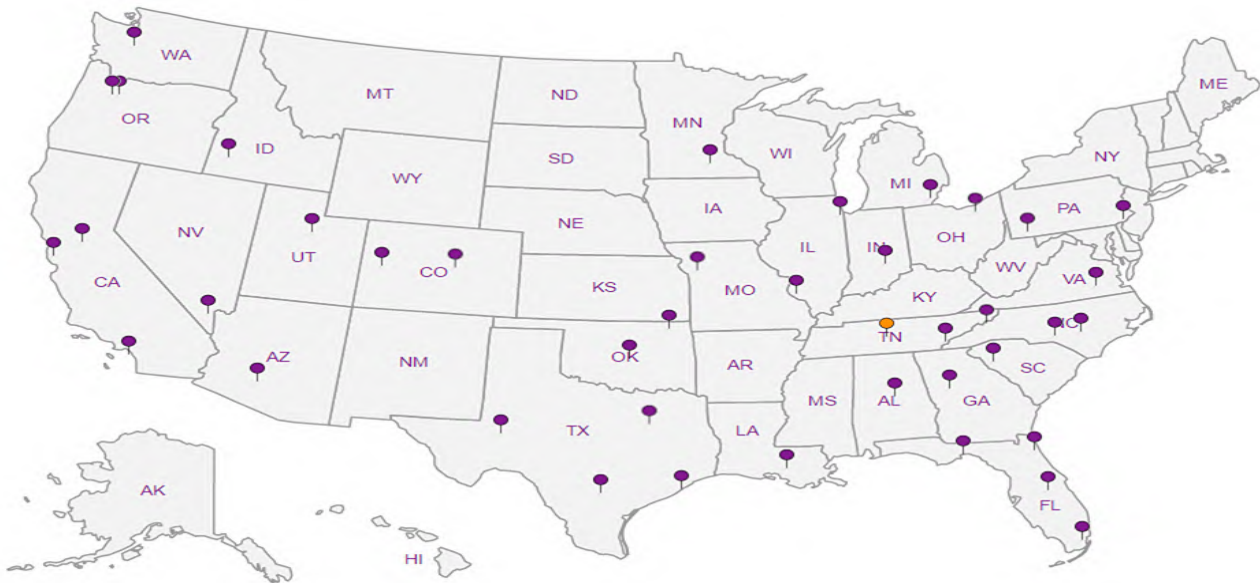
Third Party Federal Accreditations

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

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

Our Locations

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



Relinquished by Company: (S)

Relinquished by Company: (S)



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

May 14, 2019

James McDaniel
Enduring Resources
332 Road 3100
Aztec, NM 87140
TEL:
FAX

RE: NEU 315H

OrderNo.: 1905003

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 172 sample(s) on 5/1/2019 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-103-01

Project: NEU 315H

Collection Date: 4/29/2019 8:40:00 AM

Lab ID: 1905003-001

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	5.5	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	63		mg/Kg-dr	20	5/2/2019 2:21:54 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 2:07:06 PM	44640
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 2:07:06 PM	44640
Surr: DNOP	77.3	70-130		%Rec	1	5/2/2019 2:07:06 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/2/2019 6:56:00 PM	44653
Surr: BFB	92.5	73.8-119		%Rec	1	5/2/2019 6:56:00 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/2/2019 6:56:00 PM	44653
Toluene	ND	0.053		mg/Kg-dr	1	5/2/2019 6:56:00 PM	44653
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/2/2019 6:56:00 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 6:56:00 PM	44653
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	5/2/2019 6:56:00 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-101-01

Project: NEU 315H

Collection Date: 4/29/2019 8:45:00 AM

Lab ID: 1905003-002

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	3.2	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	62		mg/Kg-dr	20	5/2/2019 2:34:18 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 2:31:47 PM	44640
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/2/2019 2:31:47 PM	44640
Surr: DNOP	70.4	70-130		%Rec	1	5/2/2019 2:31:47 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dr	1	5/2/2019 7:19:19 PM	44653
Surr: BFB	90.1	73.8-119		%Rec	1	5/2/2019 7:19:19 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	5/2/2019 7:19:19 PM	44653
Toluene	ND	0.050		mg/Kg-dr	1	5/2/2019 7:19:19 PM	44653
Ethylbenzene	ND	0.050		mg/Kg-dr	1	5/2/2019 7:19:19 PM	44653
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/2/2019 7:19:19 PM	44653
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	5/2/2019 7:19:19 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-099-01

Project: NEU 315H

Collection Date: 4/29/2019 8:58:00 AM

Lab ID: 1905003-003

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.5	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/2/2019 2:46:43 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 2:56:13 PM	44640
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/2/2019 2:56:13 PM	44640
Surr: DNOP	83.9	70-130		%Rec	1	5/2/2019 2:56:13 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/2/2019 7:42:37 PM	44653
Surr: BFB	92.5	73.8-119		%Rec	1	5/2/2019 7:42:37 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/2/2019 7:42:37 PM	44653
Toluene	ND	0.054		mg/Kg-dr	1	5/2/2019 7:42:37 PM	44653
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/2/2019 7:42:37 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 7:42:37 PM	44653
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	5/2/2019 7:42:37 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-097-01

Project: NEU 315H

Collection Date: 4/29/2019 9:06:00 AM

Lab ID: 1905003-004

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	67		mg/Kg-dr	20	5/2/2019 3:23:56 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	210	11		mg/Kg-dr	1	5/2/2019 3:20:39 PM	44640
Motor Oil Range Organics (MRO)	64	54		mg/Kg-dr	1	5/2/2019 3:20:39 PM	44640
Surr: DNOP	87.5	70-130		%Rec	1	5/2/2019 3:20:39 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	33	5.5		mg/Kg-dr	1	5/2/2019 8:05:58 PM	44653
Surr: BFB	305	73.8-119	S	%Rec	1	5/2/2019 8:05:58 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/2/2019 8:05:58 PM	44653
Toluene	ND	0.055		mg/Kg-dr	1	5/2/2019 8:05:58 PM	44653
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/2/2019 8:05:58 PM	44653
Xylenes, Total	0.47	0.11		mg/Kg-dr	1	5/2/2019 8:05:58 PM	44653
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	5/2/2019 8:05:58 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-097-03

Project: NEU 315H

Collection Date: 4/29/2019 9:10:00 AM

Lab ID: 1905003-005

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	5.7	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/2/2019 3:36:21 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 3:45:01 PM	44640
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/2/2019 3:45:01 PM	44640
Surr: DNOP	77.2	70-130		%Rec	1	5/2/2019 3:45:01 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/2/2019 8:29:21 PM	44653
Surr: BFB	92.7	73.8-119		%Rec	1	5/2/2019 8:29:21 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/2/2019 8:29:21 PM	44653
Toluene	ND	0.053		mg/Kg-dr	1	5/2/2019 8:29:21 PM	44653
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/2/2019 8:29:21 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 8:29:21 PM	44653
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	5/2/2019 8:29:21 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-095-01

Project: NEU 315H

Collection Date: 4/29/2019 9:40:00 AM

Lab ID: 1905003-006

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	84	69		mg/Kg-dr	20	5/2/2019 3:48:46 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 4:09:28 PM	44640
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/2/2019 4:09:28 PM	44640
Surr: DNOP	83.9	70-130		%Rec	1	5/2/2019 4:09:28 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/2/2019 8:52:46 PM	44653
Surr: BFB	91.8	73.8-119		%Rec	1	5/2/2019 8:52:46 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 8:52:46 PM	44653
Toluene	ND	0.056		mg/Kg-dr	1	5/2/2019 8:52:46 PM	44653
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/2/2019 8:52:46 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 8:52:46 PM	44653
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	5/2/2019 8:52:46 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-093-01

Project: NEU 315H

Collection Date: 4/29/2019 9:55:00 AM

Lab ID: 1905003-007

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	4.9	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	86	63		mg/Kg-dr	20	5/2/2019 4:01:10 PM	44678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 8:05:35 AM	44640
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/3/2019 8:05:35 AM	44640
Surr: DNOP	86.1	70-130		%Rec	1	5/3/2019 8:05:35 AM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/2/2019 9:16:16 PM	44653
Surr: BFB	93.3	73.8-119		%Rec	1	5/2/2019 9:16:16 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/2/2019 9:16:16 PM	44653
Toluene	ND	0.052		mg/Kg-dr	1	5/2/2019 9:16:16 PM	44653
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/2/2019 9:16:16 PM	44653
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/2/2019 9:16:16 PM	44653
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/2/2019 9:16:16 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-091-01

Project: NEU 315H

Collection Date: 4/29/2019 10:07:00 AM

Lab ID: 1905003-008

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.3	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/2/2019 11:55:47 AM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/2/2019 4:58:10 PM	44640
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/2/2019 4:58:10 PM	44640
Surr: DNOP	80.2	70-130		%Rec	1	5/2/2019 4:58:10 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/2/2019 11:13:12 PM	44653
Surr: BFB	93.4	73.8-119		%Rec	1	5/2/2019 11:13:12 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/2/2019 11:13:12 PM	44653
Toluene	ND	0.054		mg/Kg-dr	1	5/2/2019 11:13:12 PM	44653
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/2/2019 11:13:12 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 11:13:12 PM	44653
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/2/2019 11:13:12 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-089-01

Project: NEU 315H

Collection Date: 4/29/2019 10:25:00 AM

Lab ID: 1905003-009

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.1	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	64		mg/Kg-dr	20	5/2/2019 12:33:00 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 5:22:36 PM	44640
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/2/2019 5:22:36 PM	44640
Surr: DNOP	74.8	70-130		%Rec	1	5/2/2019 5:22:36 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/2/2019 11:36:31 PM	44653
Surr: BFB	90.5	73.8-119		%Rec	1	5/2/2019 11:36:31 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/2/2019 11:36:31 PM	44653
Toluene	ND	0.052		mg/Kg-dr	1	5/2/2019 11:36:31 PM	44653
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/2/2019 11:36:31 PM	44653
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/2/2019 11:36:31 PM	44653
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/2/2019 11:36:31 PM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-087-01

Project: NEU 315H

Collection Date: 4/29/2019 10:42:00 AM

Lab ID: 1905003-010

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.4	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/2/2019 12:45:25 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 5:47:17 PM	44640
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/2/2019 5:47:17 PM	44640
Surr: DNOP	72.6	70-130		%Rec	1	5/2/2019 5:47:17 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/2/2019 11:59:47 PM	44653
Surr: BFB	90.4	73.8-119		%Rec	1	5/2/2019 11:59:47 PM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/2/2019 11:59:47 PM	44653
Toluene	ND	0.053		mg/Kg-dr	1	5/2/2019 11:59:47 PM	44653
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/2/2019 11:59:47 PM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 11:59:47 PM	44653
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	5/2/2019 11:59:47 PM	44653

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SB-085-01**Project:** NEU 315H**Collection Date:** 4/29/2019 11:00:00 AM**Lab ID:** 1905003-011**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	5.9	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	150	64		mg/Kg-dr	20	5/2/2019 12:57:49 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 6:11:47 PM	44640
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/2/2019 6:11:47 PM	44640
Surr: DNOP	74.3	70-130		%Rec	1	5/2/2019 6:11:47 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	5/3/2019 12:22:59 AM	44653
Surr: BFB	91.0	73.8-119		%Rec	1	5/3/2019 12:22:59 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/3/2019 12:22:59 AM	44653
Toluene	ND	0.051		mg/Kg-dr	1	5/3/2019 12:22:59 AM	44653
Ethylbenzene	ND	0.051		mg/Kg-dr	1	5/3/2019 12:22:59 AM	44653
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/3/2019 12:22:59 AM	44653
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	5/3/2019 12:22:59 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-083-01

Project: NEU 315H

Collection Date: 4/29/2019 11:10:00 AM

Lab ID: 1905003-012

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	4.9	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	63		mg/Kg-dr	20	5/2/2019 1:35:04 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 6:36:24 PM	44640
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/2/2019 6:36:24 PM	44640
Surr: DNOP	77.4	70-130		%Rec	1	5/2/2019 6:36:24 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dr	1	5/3/2019 12:46:14 AM	44653
Surr: BFB	91.6	73.8-119		%Rec	1	5/3/2019 12:46:14 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	5/3/2019 12:46:14 AM	44653
Toluene	ND	0.050		mg/Kg-dr	1	5/3/2019 12:46:14 AM	44653
Ethylbenzene	ND	0.050		mg/Kg-dr	1	5/3/2019 12:46:14 AM	44653
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/3/2019 12:46:14 AM	44653
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	5/3/2019 12:46:14 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-081-01

Project: NEU 315H

Collection Date: 4/29/2019 11:35:00 AM

Lab ID: 1905003-013

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	120	68		mg/Kg-dr	20	5/2/2019 1:47:28 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 7:00:45 PM	44640
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/2/2019 7:00:45 PM	44640
Surr: DNOP	82.7	70-130		%Rec	1	5/2/2019 7:00:45 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/3/2019 1:09:34 AM	44653
Surr: BFB	91.6	73.8-119		%Rec	1	5/3/2019 1:09:34 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/3/2019 1:09:34 AM	44653
Toluene	ND	0.056		mg/Kg-dr	1	5/3/2019 1:09:34 AM	44653
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/3/2019 1:09:34 AM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 1:09:34 AM	44653
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	5/3/2019 1:09:34 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-079-01

Project: NEU 315H

Collection Date: 4/29/2019 11:50:00 AM

Lab ID: 1905003-014

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	150	73		mg/Kg-dr	20	5/2/2019 1:59:53 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 7:25:24 PM	44640
Motor Oil Range Organics (MRO)	ND	60		mg/Kg-dr	1	5/2/2019 7:25:24 PM	44640
Surr: DNOP	79.5	70-130		%Rec	1	5/2/2019 7:25:24 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/3/2019 1:33:03 AM	44653
Surr: BFB	89.0	73.8-119		%Rec	1	5/3/2019 1:33:03 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 1:33:03 AM	44653
Toluene	ND	0.058		mg/Kg-dr	1	5/3/2019 1:33:03 AM	44653
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/3/2019 1:33:03 AM	44653
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 1:33:03 AM	44653
Surr: 4-Bromofluorobenzene	88.3	80-120		%Rec	1	5/3/2019 1:33:03 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-077-01

Project: NEU 315H

Collection Date: 4/29/2019 12:10:00 PM

Lab ID: 1905003-015

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 2:12:17 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 7:49:59 PM	44640
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/2/2019 7:49:59 PM	44640
Surr: DNOP	75.8	70-130		%Rec	1	5/2/2019 7:49:59 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/3/2019 1:56:36 AM	44653
Surr: BFB	90.3	73.8-119		%Rec	1	5/3/2019 1:56:36 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 1:56:36 AM	44653
Toluene	ND	0.059		mg/Kg-dr	1	5/3/2019 1:56:36 AM	44653
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/3/2019 1:56:36 AM	44653
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 1:56:36 AM	44653
Surr: 4-Bromofluorobenzene	89.9	80-120		%Rec	1	5/3/2019 1:56:36 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-075-01

Project: NEU 315H

Collection Date: 4/29/2019 12:25:00 PM

Lab ID: 1905003-016

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/2/2019 2:24:42 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 8:14:36 PM	44640
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/2/2019 8:14:36 PM	44640
Surr: DNOP	74.1	70-130		%Rec	1	5/2/2019 8:14:36 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/3/2019 2:20:09 AM	44653
Surr: BFB	86.6	73.8-119		%Rec	1	5/3/2019 2:20:09 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 2:20:09 AM	44653
Toluene	ND	0.058		mg/Kg-dr	1	5/3/2019 2:20:09 AM	44653
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/3/2019 2:20:09 AM	44653
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 2:20:09 AM	44653
Surr: 4-Bromofluorobenzene	85.6	80-120		%Rec	1	5/3/2019 2:20:09 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-073-01

Project: NEU 315H

Collection Date: 4/29/2019 1:00:00 PM

Lab ID: 1905003-017

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.8	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/2/2019 2:37:06 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 8:39:03 PM	44640
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/2/2019 8:39:03 PM	44640
Surr: DNOP	84.9	70-130		%Rec	1	5/2/2019 8:39:03 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/3/2019 2:43:40 AM	44653
Surr: BFB	91.2	73.8-119		%Rec	1	5/3/2019 2:43:40 AM	44653
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/3/2019 2:43:40 AM	44653
Toluene	ND	0.054		mg/Kg-dr	1	5/3/2019 2:43:40 AM	44653
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/3/2019 2:43:40 AM	44653
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 2:43:40 AM	44653
Surr: 4-Bromofluorobenzene	90.3	80-120		%Rec	1	5/3/2019 2:43:40 AM	44653

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-071-01

Project: NEU 315H

Collection Date: 4/29/2019 1:15:00 PM

Lab ID: 1905003-018

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/2/2019 2:49:30 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 9:03:28 PM	44640
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/2/2019 9:03:28 PM	44640
Surr: DNOP	74.2	70-130		%Rec	1	5/2/2019 9:03:28 PM	44640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 9:55:01 AM	44661
Surr: BFB	89.0	73.8-119		%Rec	1	5/2/2019 9:55:01 AM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 9:55:01 AM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 9:55:01 AM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 9:55:01 AM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 9:55:01 AM	44661
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	5/2/2019 9:55:01 AM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-069-01

Project: NEU 315H

Collection Date: 4/29/2019 1:25:00 PM

Lab ID: 1905003-019

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/2/2019 3:01:55 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 9:03:55 AM	44641
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 9:03:55 AM	44641
Surr: DNOP	96.4	70-130		%Rec	1	5/2/2019 9:03:55 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 11:03:19 AM	44661
Surr: BFB	89.1	73.8-119		%Rec	1	5/2/2019 11:03:19 AM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 11:03:19 AM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 11:03:19 AM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 11:03:19 AM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 11:03:19 AM	44661
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	5/2/2019 11:03:19 AM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-067-01

Project: NEU 315H

Collection Date: 4/29/2019 1:35:00 PM

Lab ID: 1905003-020

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 3:14:20 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 9:27:55 AM	44641
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 9:27:55 AM	44641
Surr: DNOP	92.5	70-130		%Rec	1	5/2/2019 9:27:55 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/2/2019 12:11:16 PM	44661
Surr: BFB	92.8	73.8-119		%Rec	1	5/2/2019 12:11:16 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 12:11:16 PM	44661
Toluene	ND	0.057		mg/Kg-dr	1	5/2/2019 12:11:16 PM	44661
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/2/2019 12:11:16 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 12:11:16 PM	44661
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	5/2/2019 12:11:16 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-065-01

Project: NEU 315H

Collection Date: 4/29/2019 1:45:00 PM

Lab ID: 1905003-021

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/2/2019 3:26:45 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/2/2019 9:55:23 AM	44641
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 9:55:23 AM	44641
Surr: DNOP	93.6	70-130		%Rec	1	5/2/2019 9:55:23 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/2/2019 12:34:08 PM	44661
Surr: BFB	89.1	73.8-119		%Rec	1	5/2/2019 12:34:08 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 12:34:08 PM	44661
Toluene	ND	0.055		mg/Kg-dr	1	5/2/2019 12:34:08 PM	44661
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/2/2019 12:34:08 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 12:34:08 PM	44661
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	5/2/2019 12:34:08 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-063-01

Project: NEU 315H

Collection Date: 4/29/2019 1:55:00 PM

Lab ID: 1905003-022

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/2/2019 4:03:59 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg-dr	1	5/2/2019 10:19:24 AM	44641
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/2/2019 10:19:24 AM	44641
Surr: DNOP	95.1	70-130		%Rec	1	5/2/2019 10:19:24 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/2/2019 12:56:50 PM	44661
Surr: BFB	89.3	73.8-119		%Rec	1	5/2/2019 12:56:50 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 12:56:50 PM	44661
Toluene	ND	0.056		mg/Kg-dr	1	5/2/2019 12:56:50 PM	44661
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/2/2019 12:56:50 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 12:56:50 PM	44661
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	5/2/2019 12:56:50 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-061-01

Project: NEU 315H

Collection Date: 4/29/2019 2:00:00 PM

Lab ID: 1905003-023

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/2/2019 4:16:24 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg-dr	1	5/2/2019 10:43:29 AM	44641
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/2/2019 10:43:29 AM	44641
Surr: DNOP	96.1	70-130		%Rec	1	5/2/2019 10:43:29 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/2/2019 1:19:29 PM	44661
Surr: BFB	93.3	73.8-119		%Rec	1	5/2/2019 1:19:29 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 1:19:29 PM	44661
Toluene	ND	0.057		mg/Kg-dr	1	5/2/2019 1:19:29 PM	44661
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/2/2019 1:19:29 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 1:19:29 PM	44661
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	5/2/2019 1:19:29 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-059-01

Project: NEU 315H

Collection Date: 4/29/2019 2:12:00 PM

Lab ID: 1905003-024

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/2/2019 4:28:49 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/2/2019 11:07:32 AM	44641
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/2/2019 11:07:32 AM	44641
Surr: DNOP	95.9	70-130		%Rec	1	5/2/2019 11:07:32 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/2/2019 1:42:10 PM	44661
Surr: BFB	88.9	73.8-119		%Rec	1	5/2/2019 1:42:10 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 1:42:10 PM	44661
Toluene	ND	0.056		mg/Kg-dr	1	5/2/2019 1:42:10 PM	44661
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/2/2019 1:42:10 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 1:42:10 PM	44661
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	5/2/2019 1:42:10 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-057-01

Project: NEU 315H

Collection Date: 4/29/2019 2:18:00 PM

Lab ID: 1905003-025

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/2/2019 4:41:14 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg-dr	1	5/2/2019 11:31:35 AM	44641
Motor Oil Range Organics (MRO)	ND	45		mg/Kg-dr	1	5/2/2019 11:31:35 AM	44641
Surr: DNOP	97.4	70-130		%Rec	1	5/2/2019 11:31:35 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/2/2019 2:04:49 PM	44661
Surr: BFB	93.6	73.8-119		%Rec	1	5/2/2019 2:04:49 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 2:04:49 PM	44661
Toluene	ND	0.056		mg/Kg-dr	1	5/2/2019 2:04:49 PM	44661
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/2/2019 2:04:49 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 2:04:49 PM	44661
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/2/2019 2:04:49 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-055-01

Project: NEU 315H

Collection Date: 4/29/2019 2:28:00 PM

Lab ID: 1905003-026

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	20	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	75		mg/Kg-dr	20	5/2/2019 4:53:38 PM	44680
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg-dr	1	5/2/2019 11:55:38 AM	44641
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/2/2019 11:55:38 AM	44641
Surr: DNOP	99.1	70-130		%Rec	1	5/2/2019 11:55:38 AM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/2/2019 2:27:46 PM	44661
Surr: BFB	90.3	73.8-119		%Rec	1	5/2/2019 2:27:46 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/2/2019 2:27:46 PM	44661
Toluene	ND	0.060		mg/Kg-dr	1	5/2/2019 2:27:46 PM	44661
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/2/2019 2:27:46 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 2:27:46 PM	44661
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	5/2/2019 2:27:46 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-053-01

Project: NEU 315H

Collection Date: 4/29/2019 2:35:00 PM

Lab ID: 1905003-027

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 6:17:40 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg-dr	1	5/2/2019 12:19:32 PM	44641
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/2/2019 12:19:32 PM	44641
Surr: DNOP	98.7	70-130		%Rec	1	5/2/2019 12:19:32 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 2:50:29 PM	44661
Surr: BFB	93.1	73.8-119		%Rec	1	5/2/2019 2:50:29 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 2:50:29 PM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 2:50:29 PM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 2:50:29 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 2:50:29 PM	44661
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	5/2/2019 2:50:29 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-051-01

Project: NEU 315H

Collection Date: 4/29/2019 2:48:00 PM

Lab ID: 1905003-028

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	70		mg/Kg-dr	20	5/2/2019 6:54:53 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 1:07:26 PM	44641
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 1:07:26 PM	44641
Surr: DNOP	98.4	70-130		%Rec	1	5/2/2019 1:07:26 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/2/2019 4:43:49 PM	44661
Surr: BFB	90.8	73.8-119		%Rec	1	5/2/2019 4:43:49 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/2/2019 4:43:49 PM	44661
Toluene	ND	0.056		mg/Kg-dr	1	5/2/2019 4:43:49 PM	44661
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/2/2019 4:43:49 PM	44661
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/2/2019 4:43:49 PM	44661
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	5/2/2019 4:43:49 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-049-01

Project: NEU 315H

Collection Date: 4/29/2019 2:58:00 PM

Lab ID: 1905003-029

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 7:07:18 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg-dr	1	5/2/2019 1:31:23 PM	44641
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/2/2019 1:31:23 PM	44641
Surr: DNOP	96.4	70-130		%Rec	1	5/2/2019 1:31:23 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 5:06:27 PM	44661
Surr: BFB	92.4	73.8-119		%Rec	1	5/2/2019 5:06:27 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 5:06:27 PM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 5:06:27 PM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 5:06:27 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 5:06:27 PM	44661
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	5/2/2019 5:06:27 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-047-01

Project: NEU 315H

Collection Date: 4/29/2019 2:59:00 PM

Lab ID: 1905003-030

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/2/2019 7:19:42 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/2/2019 1:55:23 PM	44641
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/2/2019 1:55:23 PM	44641
Surr: DNOP	101	70-130		%Rec	1	5/2/2019 1:55:23 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 5:29:04 PM	44661
Surr: BFB	92.7	73.8-119		%Rec	1	5/2/2019 5:29:04 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 5:29:04 PM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 5:29:04 PM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 5:29:04 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 5:29:04 PM	44661
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	5/2/2019 5:29:04 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-045-01

Project: NEU 315H

Collection Date: 4/29/2019 3:12:00 PM

Lab ID: 1905003-031

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/2/2019 7:32:06 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/2/2019 2:19:41 PM	44641
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/2/2019 2:19:41 PM	44641
Surr: DNOP	101	70-130		%Rec	1	5/2/2019 2:19:41 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/2/2019 5:51:59 PM	44661
Surr: BFB	90.3	73.8-119		%Rec	1	5/2/2019 5:51:59 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/2/2019 5:51:59 PM	44661
Toluene	ND	0.060		mg/Kg-dr	1	5/2/2019 5:51:59 PM	44661
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/2/2019 5:51:59 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 5:51:59 PM	44661
Surr: 4-Bromofluorobenzene	88.0	80-120		%Rec	1	5/2/2019 5:51:59 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-043-01

Project: NEU 315H

Collection Date: 4/29/2019 3:15:00 PM

Lab ID: 1905003-032

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	20	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	74		mg/Kg-dr	20	5/2/2019 7:44:30 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/2/2019 2:43:56 PM	44641
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/2/2019 2:43:56 PM	44641
Surr: DNOP	101	70-130		%Rec	1	5/2/2019 2:43:56 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg-dr	1	5/2/2019 6:14:31 PM	44661
Surr: BFB	94.1	73.8-119		%Rec	1	5/2/2019 6:14:31 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/2/2019 6:14:31 PM	44661
Toluene	ND	0.061		mg/Kg-dr	1	5/2/2019 6:14:31 PM	44661
Ethylbenzene	ND	0.061		mg/Kg-dr	1	5/2/2019 6:14:31 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 6:14:31 PM	44661
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/2/2019 6:14:31 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-041-01

Project: NEU 315H

Collection Date: 4/29/2019 3:17:00 PM

Lab ID: 1905003-033

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 8:21:44 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg-dr	1	5/2/2019 3:08:06 PM	44641
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/2/2019 3:08:06 PM	44641
Surr: DNOP	98.7	70-130		%Rec	1	5/2/2019 3:08:06 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/2/2019 6:37:05 PM	44661
Surr: BFB	93.6	73.8-119		%Rec	1	5/2/2019 6:37:05 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/2/2019 6:37:05 PM	44661
Toluene	ND	0.058		mg/Kg-dr	1	5/2/2019 6:37:05 PM	44661
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/2/2019 6:37:05 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 6:37:05 PM	44661
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	5/2/2019 6:37:05 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-039-01

Project: NEU 315H

Collection Date: 4/29/2019 3:24:00 PM

Lab ID: 1905003-034

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	22	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	77		mg/Kg-dr	20	5/2/2019 8:34:09 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/2/2019 3:32:20 PM	44641
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/2/2019 3:32:20 PM	44641
Surr: DNOP	100	70-130		%Rec	1	5/2/2019 3:32:20 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg-dr	1	5/2/2019 6:59:49 PM	44661
Surr: BFB	93.0	73.8-119		%Rec	1	5/2/2019 6:59:49 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/2/2019 6:59:49 PM	44661
Toluene	ND	0.062		mg/Kg-dr	1	5/2/2019 6:59:49 PM	44661
Ethylbenzene	ND	0.062		mg/Kg-dr	1	5/2/2019 6:59:49 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 6:59:49 PM	44661
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	5/2/2019 6:59:49 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-037-01

Project: NEU 315H

Collection Date: 4/29/2019 3:21:00 PM

Lab ID: 1905003-035

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	19	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	74		mg/Kg-dr	20	5/2/2019 8:46:33 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/2/2019 3:56:25 PM	44641
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/2/2019 3:56:25 PM	44641
Surr: DNOP	102	70-130		%Rec	1	5/2/2019 3:56:25 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg-dr	1	5/2/2019 7:22:35 PM	44661
Surr: BFB	91.4	73.8-119		%Rec	1	5/2/2019 7:22:35 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/2/2019 7:22:35 PM	44661
Toluene	ND	0.062		mg/Kg-dr	1	5/2/2019 7:22:35 PM	44661
Ethylbenzene	ND	0.062		mg/Kg-dr	1	5/2/2019 7:22:35 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 7:22:35 PM	44661
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	5/2/2019 7:22:35 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-035-01

Project: NEU 315H

Collection Date: 4/29/2019 3:30:00 PM

Lab ID: 1905003-036

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	20	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	76		mg/Kg-dr	20	5/2/2019 8:58:58 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/2/2019 4:20:33 PM	44641
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/2/2019 4:20:33 PM	44641
Surr: DNOP	102	70-130		%Rec	1	5/2/2019 4:20:33 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/2/2019 7:45:16 PM	44661
Surr: BFB	90.7	73.8-119		%Rec	1	5/2/2019 7:45:16 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/2/2019 7:45:16 PM	44661
Toluene	ND	0.060		mg/Kg-dr	1	5/2/2019 7:45:16 PM	44661
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/2/2019 7:45:16 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 7:45:16 PM	44661
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	5/2/2019 7:45:16 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-033-01

Project: NEU 315H

Collection Date: 4/29/2019 3:46:00 PM

Lab ID: 1905003-037

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/2/2019 9:11:22 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg-dr	1	5/2/2019 4:44:38 PM	44641
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/2/2019 4:44:38 PM	44641
Surr: DNOP	103	70-130		%Rec	1	5/2/2019 4:44:38 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/2/2019 8:08:00 PM	44661
Surr: BFB	90.7	73.8-119		%Rec	1	5/2/2019 8:08:00 PM	44661
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/2/2019 8:08:00 PM	44661
Toluene	ND	0.059		mg/Kg-dr	1	5/2/2019 8:08:00 PM	44661
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/2/2019 8:08:00 PM	44661
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/2/2019 8:08:00 PM	44661
Surr: 4-Bromofluorobenzene	89.9	80-120		%Rec	1	5/2/2019 8:08:00 PM	44661

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-031-01

Project: NEU 315H

Collection Date: 4/29/2019 3:43:00 PM

Lab ID: 1905003-038

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/2/2019 9:23:47 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg-dr	1	5/2/2019 5:08:40 PM	44641
Motor Oil Range Organics (MRO)	ND	44		mg/Kg-dr	1	5/2/2019 5:08:40 PM	44641
Surr: DNOP	102	70-130		%Rec	1	5/2/2019 5:08:40 PM	44641
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/3/2019 1:30:38 PM	44663
Surr: BFB	90.9	73.8-119		%Rec	1	5/3/2019 1:30:38 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 1:30:38 PM	44663
Toluene	ND	0.058		mg/Kg-dr	1	5/3/2019 1:30:38 PM	44663
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/3/2019 1:30:38 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 1:30:38 PM	44663
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	5/3/2019 1:30:38 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-029-01

Project: NEU 315H

Collection Date: 4/29/2019 3:50:00 PM

Lab ID: 1905003-039

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	20	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	75		mg/Kg-dr	20	5/2/2019 9:36:12 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	5/2/2019 12:54:10 PM	44642
Motor Oil Range Organics (MRO)	ND	63		mg/Kg-dr	1	5/2/2019 12:54:10 PM	44642
Surr: DNOP	109	70-130		%Rec	1	5/2/2019 12:54:10 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/3/2019 2:40:47 PM	44663
Surr: BFB	89.6	73.8-119		%Rec	1	5/3/2019 2:40:47 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/3/2019 2:40:47 PM	44663
Toluene	ND	0.060		mg/Kg-dr	1	5/3/2019 2:40:47 PM	44663
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/3/2019 2:40:47 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 2:40:47 PM	44663
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	5/3/2019 2:40:47 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-027-01

Project: NEU 315H

Collection Date: 4/29/2019 3:55:00 PM

Lab ID: 1905003-040

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/2/2019 9:48:37 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 2:00:12 PM	44642
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/2/2019 2:00:12 PM	44642
Surr: DNOP	108	70-130		%Rec	1	5/2/2019 2:00:12 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/3/2019 3:50:54 PM	44663
Surr: BFB	87.8	73.8-119		%Rec	1	5/3/2019 3:50:54 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 3:50:54 PM	44663
Toluene	ND	0.058		mg/Kg-dr	1	5/3/2019 3:50:54 PM	44663
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/3/2019 3:50:54 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 3:50:54 PM	44663
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	5/3/2019 3:50:54 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-025-01

Project: NEU 315H

Collection Date: 4/29/2019 3:56:00 PM

Lab ID: 1905003-041

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/2/2019 10:01:01 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 2:22:28 PM	44642
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/2/2019 2:22:28 PM	44642
Surr: DNOP	106	70-130		%Rec	1	5/2/2019 2:22:28 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/3/2019 4:14:18 PM	44663
Surr: BFB	90.3	73.8-119		%Rec	1	5/3/2019 4:14:18 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/3/2019 4:14:18 PM	44663
Toluene	ND	0.060		mg/Kg-dr	1	5/3/2019 4:14:18 PM	44663
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/3/2019 4:14:18 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 4:14:18 PM	44663
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	5/3/2019 4:14:18 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-023-01

Project: NEU 315H

Collection Date: 4/29/2019 4:00:00 PM

Lab ID: 1905003-042

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/2/2019 10:13:25 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 3:06:46 PM	44642
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/2/2019 3:06:46 PM	44642
Surr: DNOP	104	70-130		%Rec	1	5/2/2019 3:06:46 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/3/2019 6:11:13 PM	44663
Surr: BFB	87.7	73.8-119		%Rec	1	5/3/2019 6:11:13 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 6:11:13 PM	44663
Toluene	ND	0.058		mg/Kg-dr	1	5/3/2019 6:11:13 PM	44663
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/3/2019 6:11:13 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 6:11:13 PM	44663
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	5/3/2019 6:11:13 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-021-01

Project: NEU 315H

Collection Date: 4/29/2019 4:02:00 PM

Lab ID: 1905003-043

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/2/2019 10:50:39 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	14	12		mg/Kg-dr	1	5/2/2019 3:28:50 PM	44642
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/2/2019 3:28:50 PM	44642
Surr: DNOP	112	70-130		%Rec	1	5/2/2019 3:28:50 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/3/2019 6:34:29 PM	44663
Surr: BFB	90.7	73.8-119		%Rec	1	5/3/2019 6:34:29 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/3/2019 6:34:29 PM	44663
Toluene	ND	0.059		mg/Kg-dr	1	5/3/2019 6:34:29 PM	44663
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/3/2019 6:34:29 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 6:34:29 PM	44663
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/3/2019 6:34:29 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-019-01

Project: NEU 315H

Collection Date: 4/29/2019 4:04:00 PM

Lab ID: 1905003-044

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	19	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	75		mg/Kg-dr	20	5/2/2019 11:03:04 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 4:13:02 PM	44642
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/2/2019 4:13:02 PM	44642
Surr: DNOP	108	70-130		%Rec	1	5/2/2019 4:13:02 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg-dr	1	5/3/2019 6:57:45 PM	44663
Surr: BFB	89.6	73.8-119		%Rec	1	5/3/2019 6:57:45 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/3/2019 6:57:45 PM	44663
Toluene	ND	0.061		mg/Kg-dr	1	5/3/2019 6:57:45 PM	44663
Ethylbenzene	ND	0.061		mg/Kg-dr	1	5/3/2019 6:57:45 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 6:57:45 PM	44663
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	5/3/2019 6:57:45 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-017-01

Project: NEU 315H

Collection Date: 4/29/2019 4:20:00 PM

Lab ID: 1905003-045

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	24	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	79		mg/Kg-dr	20	5/2/2019 11:15:28 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 4:35:21 PM	44642
Motor Oil Range Organics (MRO)	ND	60		mg/Kg-dr	1	5/2/2019 4:35:21 PM	44642
Surr: DNOP	104	70-130		%Rec	1	5/2/2019 4:35:21 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.4		mg/Kg-dr	1	5/3/2019 7:21:00 PM	44663
Surr: BFB	89.2	73.8-119		%Rec	1	5/3/2019 7:21:00 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.032		mg/Kg-dr	1	5/3/2019 7:21:00 PM	44663
Toluene	ND	0.064		mg/Kg-dr	1	5/3/2019 7:21:00 PM	44663
Ethylbenzene	ND	0.064		mg/Kg-dr	1	5/3/2019 7:21:00 PM	44663
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/3/2019 7:21:00 PM	44663
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	5/3/2019 7:21:00 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-015-01

Project: NEU 315H

Collection Date: 4/29/2019 4:23:00 PM

Lab ID: 1905003-046

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	19	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	75		mg/Kg-dr	20	5/2/2019 11:27:53 PM	44699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 4:57:27 PM	44642
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/2/2019 4:57:27 PM	44642
Surr: DNOP	108	70-130		%Rec	1	5/2/2019 4:57:27 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg-dr	1	5/3/2019 7:44:16 PM	44663
Surr: BFB	95.6	73.8-119		%Rec	1	5/3/2019 7:44:16 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/3/2019 7:44:16 PM	44663
Toluene	ND	0.061		mg/Kg-dr	1	5/3/2019 7:44:16 PM	44663
Ethylbenzene	ND	0.061		mg/Kg-dr	1	5/3/2019 7:44:16 PM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/3/2019 7:44:16 PM	44663
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	5/3/2019 7:44:16 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-013-01

Project: NEU 315H

Collection Date: 4/29/2019 4:25:00 PM

Lab ID: 1905003-047

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	22	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	77		mg/Kg-dr	20	5/3/2019 9:55:56 AM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 5:19:41 PM	44642
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/2/2019 5:19:41 PM	44642
Surr: DNOP	109	70-130		%Rec	1	5/2/2019 5:19:41 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.3		mg/Kg-dr	1	5/3/2019 8:07:30 PM	44663
Surr: BFB	97.4	73.8-119		%Rec	1	5/3/2019 8:07:30 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/3/2019 8:07:30 PM	44663
Toluene	ND	0.063		mg/Kg-dr	1	5/3/2019 8:07:30 PM	44663
Ethylbenzene	ND	0.063		mg/Kg-dr	1	5/3/2019 8:07:30 PM	44663
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/3/2019 8:07:30 PM	44663
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	5/3/2019 8:07:30 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-001-01

Project: NEU 315H

Collection Date: 4/29/2019 4:50:00 PM

Lab ID: 1905003-048

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.3	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/3/2019 10:08:21 AM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg-dr	1	5/2/2019 5:42:03 PM	44642
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/2/2019 5:42:03 PM	44642
Surr: DNOP	111	70-130		%Rec	1	5/2/2019 5:42:03 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/3/2019 8:30:47 PM	44663
Surr: BFB	88.8	73.8-119		%Rec	1	5/3/2019 8:30:47 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/3/2019 8:30:47 PM	44663
Toluene	ND	0.054		mg/Kg-dr	1	5/3/2019 8:30:47 PM	44663
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/3/2019 8:30:47 PM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 8:30:47 PM	44663
Surr: 4-Bromofluorobenzene	88.6	80-120		%Rec	1	5/3/2019 8:30:47 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-002-01

Project: NEU 315H

Collection Date: 4/29/2019 4:55:00 PM

Lab ID: 1905003-049

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/3/2019 10:45:35 AM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 6:04:26 PM	44642
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/2/2019 6:04:26 PM	44642
Surr: DNOP	110	70-130		%Rec	1	5/2/2019 6:04:26 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/3/2019 8:54:00 PM	44663
Surr: BFB	88.7	73.8-119		%Rec	1	5/3/2019 8:54:00 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/3/2019 8:54:00 PM	44663
Toluene	ND	0.057		mg/Kg-dr	1	5/3/2019 8:54:00 PM	44663
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/3/2019 8:54:00 PM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 8:54:00 PM	44663
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	5/3/2019 8:54:00 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-104-01

Project: NEU 315H

Collection Date: 4/29/2019 5:45:00 PM

Lab ID: 1905003-050

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/3/2019 10:57:59 AM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/2/2019 6:26:47 PM	44642
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/2/2019 6:26:47 PM	44642
Surr: DNOP	114	70-130		%Rec	1	5/2/2019 6:26:47 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/3/2019 9:17:20 PM	44663
Surr: BFB	87.8	73.8-119		%Rec	1	5/3/2019 9:17:20 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/3/2019 9:17:20 PM	44663
Toluene	ND	0.056		mg/Kg-dr	1	5/3/2019 9:17:20 PM	44663
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/3/2019 9:17:20 PM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 9:17:20 PM	44663
Surr: 4-Bromofluorobenzene	86.9	80-120		%Rec	1	5/3/2019 9:17:20 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-Pit-01

Project: NEU 315H

Collection Date: 4/29/2019 1:00:00 PM

Lab ID: 1905003-051

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	67		mg/Kg-dr	20	5/3/2019 12:00:03 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 6:49:10 PM	44642
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/2/2019 6:49:10 PM	44642
Surr: DNOP	110	70-130		%Rec	1	5/2/2019 6:49:10 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/3/2019 9:40:48 PM	44663
Surr: BFB	88.1	73.8-119		%Rec	1	5/3/2019 9:40:48 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/3/2019 9:40:48 PM	44663
Toluene	ND	0.055		mg/Kg-dr	1	5/3/2019 9:40:48 PM	44663
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/3/2019 9:40:48 PM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 9:40:48 PM	44663
Surr: 4-Bromofluorobenzene	87.6	80-120		%Rec	1	5/3/2019 9:40:48 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-Pit-07

Project: NEU 315H

Collection Date: 4/29/2019 2:00:00 PM

Lab ID: 1905003-052

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	10	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	67		mg/Kg-dr	20	5/3/2019 12:12:28 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 7:11:26 PM	44642
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/2/2019 7:11:26 PM	44642
Surr: DNOP	111	70-130		%Rec	1	5/2/2019 7:11:26 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/3/2019 11:38:10 PM	44663
Surr: BFB	95.5	73.8-119		%Rec	1	5/3/2019 11:38:10 PM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/3/2019 11:38:10 PM	44663
Toluene	ND	0.055		mg/Kg-dr	1	5/3/2019 11:38:10 PM	44663
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/3/2019 11:38:10 PM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/3/2019 11:38:10 PM	44663
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	5/3/2019 11:38:10 PM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-A

Project: NEU 315H

Collection Date: 4/29/2019 3:26:00 PM

Lab ID: 1905003-053

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	22	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	77		mg/Kg-dr	20	5/3/2019 12:24:52 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	5/2/2019 7:33:54 PM	44642
Motor Oil Range Organics (MRO)	ND	63		mg/Kg-dr	1	5/2/2019 7:33:54 PM	44642
Surr: DNOP	110	70-130		%Rec	1	5/2/2019 7:33:54 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.4		mg/Kg-dr	1	5/4/2019 12:01:40 AM	44663
Surr: BFB	86.1	73.8-119		%Rec	1	5/4/2019 12:01:40 AM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.032		mg/Kg-dr	1	5/4/2019 12:01:40 AM	44663
Toluene	ND	0.064		mg/Kg-dr	1	5/4/2019 12:01:40 AM	44663
Ethylbenzene	ND	0.064		mg/Kg-dr	1	5/4/2019 12:01:40 AM	44663
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/4/2019 12:01:40 AM	44663
Surr: 4-Bromofluorobenzene	85.3	80-120		%Rec	1	5/4/2019 12:01:40 AM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-B

Project: NEU 315H

Collection Date: 4/29/2019 4:04:00 PM

Lab ID: 1905003-054

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	22	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	76		mg/Kg-dr	20	5/3/2019 12:37:17 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 7:56:09 PM	44642
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/2/2019 7:56:09 PM	44642
Surr: DNOP	114	70-130		%Rec	1	5/2/2019 7:56:09 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg-dr	1	5/4/2019 12:25:05 AM	44663
Surr: BFB	91.5	73.8-119		%Rec	1	5/4/2019 12:25:05 AM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/4/2019 12:25:05 AM	44663
Toluene	ND	0.062		mg/Kg-dr	1	5/4/2019 12:25:05 AM	44663
Ethylbenzene	ND	0.062		mg/Kg-dr	1	5/4/2019 12:25:05 AM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 12:25:05 AM	44663
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	5/4/2019 12:25:05 AM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-001

Project: NEU 315H

Collection Date: 4/29/2019 3:05:00 PM

Lab ID: 1905003-055

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.5	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/3/2019 12:49:42 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/2/2019 8:18:37 PM	44642
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/2/2019 8:18:37 PM	44642
Surr: DNOP	111	70-130		%Rec	1	5/2/2019 8:18:37 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/4/2019 12:48:24 AM	44663
Surr: BFB	90.0	73.8-119		%Rec	1	5/4/2019 12:48:24 AM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/4/2019 12:48:24 AM	44663
Toluene	ND	0.054		mg/Kg-dr	1	5/4/2019 12:48:24 AM	44663
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/4/2019 12:48:24 AM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 12:48:24 AM	44663
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	5/4/2019 12:48:24 AM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-002

Project: NEU 315H

Collection Date: 4/29/2019 3:03:00 PM

Lab ID: 1905003-056

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.1	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/3/2019 1:02:06 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/2/2019 8:40:52 PM	44642
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/2/2019 8:40:52 PM	44642
Surr: DNOP	114	70-130		%Rec	1	5/2/2019 8:40:52 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/4/2019 1:11:37 AM	44663
Surr: BFB	89.4	73.8-119		%Rec	1	5/4/2019 1:11:37 AM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/4/2019 1:11:37 AM	44663
Toluene	ND	0.053		mg/Kg-dr	1	5/4/2019 1:11:37 AM	44663
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/4/2019 1:11:37 AM	44663
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 1:11:37 AM	44663
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	5/4/2019 1:11:37 AM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-006

Project: NEU 315H

Collection Date: 4/29/2019 4:52:00 PM

Lab ID: 1905003-057

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	72		mg/Kg-dr	20	5/3/2019 1:14:30 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	67	12		mg/Kg-dr	1	5/2/2019 9:03:15 PM	44642
Motor Oil Range Organics (MRO)	ND	61		mg/Kg-dr	1	5/2/2019 9:03:15 PM	44642
Surr: DNOP	120	70-130		%Rec	1	5/2/2019 9:03:15 PM	44642
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/4/2019 1:35:12 AM	44663
Surr: BFB	94.4	73.8-119		%Rec	1	5/4/2019 1:35:12 AM	44663
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/4/2019 1:35:12 AM	44663
Toluene	ND	0.059		mg/Kg-dr	1	5/4/2019 1:35:12 AM	44663
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/4/2019 1:35:12 AM	44663
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 1:35:12 AM	44663
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/4/2019 1:35:12 AM	44663

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-007

Project: NEU 315H

Collection Date: 4/29/2019 4:56:00 PM

Lab ID: 1905003-058

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	21	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	75		mg/Kg-dr	20	5/3/2019 1:26:54 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	120	12		mg/Kg-dr	1	5/3/2019 10:40:22 AM	44643
Motor Oil Range Organics (MRO)	ND	62		mg/Kg-dr	1	5/3/2019 10:40:22 AM	44643
Surr: DNOP	103	70-130		%Rec	1	5/3/2019 10:40:22 AM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.3		mg/Kg-dr	1	5/4/2019 3:09:05 AM	44674
Surr: BFB	113	73.8-119		%Rec	1	5/4/2019 3:09:05 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.031		mg/Kg-dr	1	5/4/2019 3:09:05 AM	44674
Toluene	ND	0.063		mg/Kg-dr	1	5/4/2019 3:09:05 AM	44674
Ethylbenzene	ND	0.063		mg/Kg-dr	1	5/4/2019 3:09:05 AM	44674
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/4/2019 3:09:05 AM	44674
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	5/4/2019 3:09:05 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-008

Project: NEU 315H

Collection Date: 4/29/2019 3:07:00 PM

Lab ID: 1905003-059

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	20	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	75		mg/Kg-dr	20	5/3/2019 1:39:19 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 11:46:30 AM	44643
Motor Oil Range Organics (MRO)	ND	61		mg/Kg-dr	1	5/3/2019 11:46:30 AM	44643
Surr: DNOP	101	70-130		%Rec	1	5/3/2019 11:46:30 AM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/4/2019 4:19:22 AM	44674
Surr: BFB	89.9	73.8-119		%Rec	1	5/4/2019 4:19:22 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 4:19:22 AM	44674
Toluene	ND	0.058		mg/Kg-dr	1	5/4/2019 4:19:22 AM	44674
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/4/2019 4:19:22 AM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 4:19:22 AM	44674
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	5/4/2019 4:19:22 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-009

Project: NEU 315H

Collection Date: 4/29/2019 5:00:00 PM

Lab ID: 1905003-060

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	21	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	76		mg/Kg-dr	20	5/3/2019 1:51:43 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 12:08:36 PM	44643
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/3/2019 12:08:36 PM	44643
Surr: DNOP	101	70-130		%Rec	1	5/3/2019 12:08:36 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/4/2019 7:03:34 AM	44674
Surr: BFB	93.2	73.8-119		%Rec	1	5/4/2019 7:03:34 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/4/2019 7:03:34 AM	44674
Toluene	ND	0.060		mg/Kg-dr	1	5/4/2019 7:03:34 AM	44674
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/4/2019 7:03:34 AM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 7:03:34 AM	44674
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	5/4/2019 7:03:34 AM	44674

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SA-010**Project:** NEU 315H**Collection Date:** 4/29/2019 4:50:00 PM**Lab ID:** 1905003-061**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	73		mg/Kg-dr	20	5/3/2019 2:28:56 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 12:30:39 PM	44643
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/3/2019 12:30:39 PM	44643
Surr: DNOP	97.5	70-130		%Rec	1	5/3/2019 12:30:39 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg-dr	1	5/4/2019 7:27:06 AM	44674
Surr: BFB	91.1	73.8-119		%Rec	1	5/4/2019 7:27:06 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/4/2019 7:27:06 AM	44674
Toluene	ND	0.061		mg/Kg-dr	1	5/4/2019 7:27:06 AM	44674
Ethylbenzene	ND	0.061		mg/Kg-dr	1	5/4/2019 7:27:06 AM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 7:27:06 AM	44674
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	5/4/2019 7:27:06 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-011

Project: NEU 315H

Collection Date: 4/29/2019 3:10:00 PM

Lab ID: 1905003-062

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/3/2019 2:41:20 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 1:07:48 PM	44643
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/3/2019 1:07:48 PM	44643
Surr: DNOP	99.8	70-130		%Rec	1	5/3/2019 1:07:48 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/4/2019 7:50:37 AM	44674
Surr: BFB	90.9	73.8-119		%Rec	1	5/4/2019 7:50:37 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 7:50:37 AM	44674
Toluene	ND	0.057		mg/Kg-dr	1	5/4/2019 7:50:37 AM	44674
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/4/2019 7:50:37 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 7:50:37 AM	44674
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	5/4/2019 7:50:37 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-012

Project: NEU 315H

Collection Date: 4/29/2019 3:06:00 PM

Lab ID: 1905003-063

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/3/2019 2:53:45 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 1:29:40 PM	44643
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/3/2019 1:29:40 PM	44643
Surr: DNOP	95.7	70-130		%Rec	1	5/3/2019 1:29:40 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/4/2019 8:14:03 AM	44674
Surr: BFB	88.3	73.8-119		%Rec	1	5/4/2019 8:14:03 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 8:14:03 AM	44674
Toluene	ND	0.056		mg/Kg-dr	1	5/4/2019 8:14:03 AM	44674
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/4/2019 8:14:03 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 8:14:03 AM	44674
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	5/4/2019 8:14:03 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-013

Project: NEU 315H

Collection Date: 4/29/2019 4:47:00 PM

Lab ID: 1905003-064

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/3/2019 3:06:09 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 1:51:51 PM	44643
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/3/2019 1:51:51 PM	44643
Surr: DNOP	99.7	70-130		%Rec	1	5/3/2019 1:51:51 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/4/2019 8:37:23 AM	44674
Surr: BFB	89.8	73.8-119		%Rec	1	5/4/2019 8:37:23 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 8:37:23 AM	44674
Toluene	ND	0.056		mg/Kg-dr	1	5/4/2019 8:37:23 AM	44674
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/4/2019 8:37:23 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 8:37:23 AM	44674
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	5/4/2019 8:37:23 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-014

Project: NEU 315H

Collection Date: 4/29/2019 4:40:00 PM

Lab ID: 1905003-065

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	73		mg/Kg-dr	20	5/3/2019 3:18:34 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 2:13:44 PM	44643
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/3/2019 2:13:44 PM	44643
Surr: DNOP	103	70-130		%Rec	1	5/3/2019 2:13:44 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/4/2019 9:00:43 AM	44674
Surr: BFB	95.5	73.8-119		%Rec	1	5/4/2019 9:00:43 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/4/2019 9:00:43 AM	44674
Toluene	ND	0.060		mg/Kg-dr	1	5/4/2019 9:00:43 AM	44674
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/4/2019 9:00:43 AM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 9:00:43 AM	44674
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	5/4/2019 9:00:43 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-015

Project: NEU 315H

Collection Date: 4/29/2019 4:53:00 PM

Lab ID: 1905003-066

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/3/2019 3:30:59 PM	44703
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 2:35:53 PM	44643
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/3/2019 2:35:53 PM	44643
Surr: DNOP	99.7	70-130		%Rec	1	5/3/2019 2:35:53 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/4/2019 9:24:01 AM	44674
Surr: BFB	93.0	73.8-119		%Rec	1	5/4/2019 9:24:01 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 9:24:01 AM	44674
Toluene	ND	0.058		mg/Kg-dr	1	5/4/2019 9:24:01 AM	44674
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/4/2019 9:24:01 AM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 9:24:01 AM	44674
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	5/4/2019 9:24:01 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-016

Project: NEU 315H

Collection Date: 4/29/2019 4:36:00 PM

Lab ID: 1905003-067

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	72		mg/Kg-dr	20	5/6/2019 2:39:25 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 2:58:04 PM	44643
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/3/2019 2:58:04 PM	44643
Surr: DNOP	99.7	70-130		%Rec	1	5/3/2019 2:58:04 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/4/2019 9:47:22 AM	44674
Surr: BFB	92.1	73.8-119		%Rec	1	5/4/2019 9:47:22 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 9:47:22 AM	44674
Toluene	ND	0.055		mg/Kg-dr	1	5/4/2019 9:47:22 AM	44674
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/4/2019 9:47:22 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 9:47:22 AM	44674
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	5/4/2019 9:47:22 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-017

Project: NEU 315H

Collection Date: 4/29/2019 4:34:00 PM

Lab ID: 1905003-068

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	73		mg/Kg-dr	20	5/6/2019 2:51:49 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 3:43:53 PM	44643
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/3/2019 3:43:53 PM	44643
Surr: DNOP	101	70-130		%Rec	1	5/3/2019 3:43:53 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/4/2019 10:10:46 AM	44674
Surr: BFB	91.6	73.8-119		%Rec	1	5/4/2019 10:10:46 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 10:10:46 AM	44674
Toluene	ND	0.057		mg/Kg-dr	1	5/4/2019 10:10:46 AM	44674
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/4/2019 10:10:46 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 10:10:46 AM	44674
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	5/4/2019 10:10:46 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-018

Project: NEU 315H

Collection Date: 4/29/2019 4:43:00 PM

Lab ID: 1905003-069

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	10	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	67		mg/Kg-dr	20	5/6/2019 3:29:01 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 4:05:58 PM	44643
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/3/2019 4:05:58 PM	44643
Surr: DNOP	94.6	70-130		%Rec	1	5/3/2019 4:05:58 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/4/2019 10:34:10 AM	44674
Surr: BFB	91.8	73.8-119		%Rec	1	5/4/2019 10:34:10 AM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/4/2019 10:34:10 AM	44674
Toluene	ND	0.054		mg/Kg-dr	1	5/4/2019 10:34:10 AM	44674
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/4/2019 10:34:10 AM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 10:34:10 AM	44674
Surr: 4-Bromofluorobenzene	90.6	80-120		%Rec	1	5/4/2019 10:34:10 AM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-019

Project: NEU 315H

Collection Date: 4/29/2019 4:08:00 PM

Lab ID: 1905003-070

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	73		mg/Kg-dr	20	5/6/2019 3:41:26 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/3/2019 4:27:58 PM	44643
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/3/2019 4:27:58 PM	44643
Surr: DNOP	96.2	70-130		%Rec	1	5/3/2019 4:27:58 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/4/2019 12:32:19 PM	44674
Surr: BFB	88.8	73.8-119		%Rec	1	5/4/2019 12:32:19 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 12:32:19 PM	44674
Toluene	ND	0.056		mg/Kg-dr	1	5/4/2019 12:32:19 PM	44674
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/4/2019 12:32:19 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 12:32:19 PM	44674
Surr: 4-Bromofluorobenzene	88.0	80-120		%Rec	1	5/4/2019 12:32:19 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-020

Project: NEU 315H

Collection Date: 4/29/2019 4:07:00 PM

Lab ID: 1905003-071

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	69		mg/Kg-dr	20	5/6/2019 3:53:51 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 4:50:00 PM	44643
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/3/2019 4:50:00 PM	44643
Surr: DNOP	98.1	70-130		%Rec	1	5/3/2019 4:50:00 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/4/2019 12:55:59 PM	44674
Surr: BFB	90.8	73.8-119		%Rec	1	5/4/2019 12:55:59 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/4/2019 12:55:59 PM	44674
Toluene	ND	0.053		mg/Kg-dr	1	5/4/2019 12:55:59 PM	44674
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/4/2019 12:55:59 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 12:55:59 PM	44674
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	5/4/2019 12:55:59 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-021

Project: NEU 315H

Collection Date: 4/29/2019 4:20:00 PM

Lab ID: 1905003-072

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	71		mg/Kg-dr	20	5/6/2019 4:06:16 PM	44735
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 5:12:11 PM	44643
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/3/2019 5:12:11 PM	44643
Surr: DNOP	98.2	70-130		%Rec	1	5/3/2019 5:12:11 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/4/2019 1:19:36 PM	44674
Surr: BFB	89.9	73.8-119		%Rec	1	5/4/2019 1:19:36 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 1:19:36 PM	44674
Toluene	ND	0.058		mg/Kg-dr	1	5/4/2019 1:19:36 PM	44674
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/4/2019 1:19:36 PM	44674
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/4/2019 1:19:36 PM	44674
Surr: 4-Bromofluorobenzene	88.3	80-120		%Rec	1	5/4/2019 1:19:36 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-022

Project: NEU 315H

Collection Date: 4/29/2019 3:59:00 PM

Lab ID: 1905003-073

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	72		mg/Kg-dr	20	5/7/2019 5:43:41 PM	44760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 5:34:33 PM	44643
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/3/2019 5:34:33 PM	44643
Surr: DNOP	97.1	70-130		%Rec	1	5/3/2019 5:34:33 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/4/2019 1:42:58 PM	44674
Surr: BFB	90.0	73.8-119		%Rec	1	5/4/2019 1:42:58 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 1:42:58 PM	44674
Toluene	ND	0.055		mg/Kg-dr	1	5/4/2019 1:42:58 PM	44674
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/4/2019 1:42:58 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 1:42:58 PM	44674
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	5/4/2019 1:42:58 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-023

Project: NEU 315H

Collection Date: 4/29/2019 3:56:00 PM

Lab ID: 1905003-074

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/7/2019 5:56:06 PM	44760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 5:57:01 PM	44643
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/3/2019 5:57:01 PM	44643
Surr: DNOP	97.6	70-130		%Rec	1	5/3/2019 5:57:01 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/4/2019 2:06:21 PM	44674
Surr: BFB	93.4	73.8-119		%Rec	1	5/4/2019 2:06:21 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/4/2019 2:06:21 PM	44674
Toluene	ND	0.057		mg/Kg-dr	1	5/4/2019 2:06:21 PM	44674
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/4/2019 2:06:21 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 2:06:21 PM	44674
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	5/4/2019 2:06:21 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-024

Project: NEU 315H

Collection Date: 4/29/2019 3:55:00 PM

Lab ID: 1905003-075

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/7/2019 6:08:31 PM	44760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 6:19:22 PM	44643
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/3/2019 6:19:22 PM	44643
Surr: DNOP	100	70-130		%Rec	1	5/3/2019 6:19:22 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/4/2019 2:29:42 PM	44674
Surr: BFB	90.1	73.8-119		%Rec	1	5/4/2019 2:29:42 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/4/2019 2:29:42 PM	44674
Toluene	ND	0.055		mg/Kg-dr	1	5/4/2019 2:29:42 PM	44674
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/4/2019 2:29:42 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 2:29:42 PM	44674
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	5/4/2019 2:29:42 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-025

Project: NEU 315H

Collection Date: 4/29/2019 3:50:00 PM

Lab ID: 1905003-076

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.2	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	64		mg/Kg-dr	20	5/7/2019 6:20:55 PM	44760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 6:41:37 PM	44643
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/3/2019 6:41:37 PM	44643
Surr: DNOP	93.3	70-130		%Rec	1	5/3/2019 6:41:37 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/4/2019 2:53:07 PM	44674
Surr: BFB	91.1	73.8-119		%Rec	1	5/4/2019 2:53:07 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/4/2019 2:53:07 PM	44674
Toluene	ND	0.052		mg/Kg-dr	1	5/4/2019 2:53:07 PM	44674
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/4/2019 2:53:07 PM	44674
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/4/2019 2:53:07 PM	44674
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	5/4/2019 2:53:07 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-026

Project: NEU 315H

Collection Date: 4/29/2019 3:48:00 PM

Lab ID: 1905003-077

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/7/2019 6:33:20 PM	44760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/3/2019 7:04:02 PM	44643
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/3/2019 7:04:02 PM	44643
Surr: DNOP	97.2	70-130		%Rec	1	5/3/2019 7:04:02 PM	44643
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/4/2019 3:16:48 PM	44674
Surr: BFB	92.0	73.8-119		%Rec	1	5/4/2019 3:16:48 PM	44674
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/4/2019 3:16:48 PM	44674
Toluene	ND	0.054		mg/Kg-dr	1	5/4/2019 3:16:48 PM	44674
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/4/2019 3:16:48 PM	44674
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/4/2019 3:16:48 PM	44674
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	5/4/2019 3:16:48 PM	44674

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-027

Project: NEU 315H

Collection Date: 4/29/2019 3:41:00 PM

Lab ID: 1905003-078

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019 2:51:00 PM	R59610
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/7/2019 6:45:45 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/6/2019 8:04:51 PM	44675
Surr: BFB	108	70-130		%Rec	1	5/6/2019 8:04:51 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg-dr	1	5/3/2019 9:47:55 AM	44644
Motor Oil Range Organics (MRO)	ND	45		mg/Kg-dr	1	5/3/2019 9:47:55 AM	44644
Surr: DNOP	94.3	70-130		%Rec	1	5/3/2019 9:47:55 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/6/2019 8:04:51 PM	44675
Toluene	ND	0.056		mg/Kg-dr	1	5/6/2019 8:04:51 PM	44675
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/6/2019 8:04:51 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/6/2019 8:04:51 PM	44675
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	5/6/2019 8:04:51 PM	44675
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	5/6/2019 8:04:51 PM	44675
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/6/2019 8:04:51 PM	44675
Surr: Toluene-d8	91.6	70-130		%Rec	1	5/6/2019 8:04:51 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-028

Project: NEU 315H

Collection Date: 4/29/2019 3:39:00 PM

Lab ID: 1905003-079

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/7/2019 6:58:09 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/6/2019 9:30:46 PM	44675
Surr: BFB	105	70-130		%Rec	1	5/6/2019 9:30:46 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg-dr	1	5/3/2019 10:11:54 AM	44644
Motor Oil Range Organics (MRO)	ND	44		mg/Kg-dr	1	5/3/2019 10:11:54 AM	44644
Surr: DNOP	95.0	70-130		%Rec	1	5/3/2019 10:11:54 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/6/2019 9:30:46 PM	44675
Toluene	ND	0.058		mg/Kg-dr	1	5/6/2019 9:30:46 PM	44675
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/6/2019 9:30:46 PM	44675
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/6/2019 9:30:46 PM	44675
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	5/6/2019 9:30:46 PM	44675
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/6/2019 9:30:46 PM	44675
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/6/2019 9:30:46 PM	44675
Surr: Toluene-d8	90.8	70-130		%Rec	1	5/6/2019 9:30:46 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-029

Project: NEU 315H

Collection Date: 4/29/2019 3:37:00 PM

Lab ID: 1905003-080

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.9	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	67		mg/Kg-dr	20	5/7/2019 7:10:33 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/6/2019 10:56:37 PM	44675
Surr: BFB	107	70-130		%Rec	1	5/6/2019 10:56:37 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg-dr	1	5/3/2019 10:35:56 AM	44644
Motor Oil Range Organics (MRO)	ND	44		mg/Kg-dr	1	5/3/2019 10:35:56 AM	44644
Surr: DNOP	93.6	70-130		%Rec	1	5/3/2019 10:35:56 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/6/2019 10:56:37 PM	44675
Toluene	ND	0.054		mg/Kg-dr	1	5/6/2019 10:56:37 PM	44675
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/6/2019 10:56:37 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/6/2019 10:56:37 PM	44675
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	5/6/2019 10:56:37 PM	44675
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/6/2019 10:56:37 PM	44675
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/6/2019 10:56:37 PM	44675
Surr: Toluene-d8	91.4	70-130		%Rec	1	5/6/2019 10:56:37 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-030

Project: NEU 315H

Collection Date: 4/29/2019 3:37:00 PM

Lab ID: 1905003-081

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/7/2019 7:47:46 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/6/2019 11:25:19 PM	44675
Surr: BFB	108	70-130		%Rec	1	5/6/2019 11:25:19 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/3/2019 10:59:58 AM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 10:59:58 AM	44644
Surr: DNOP	95.4	70-130		%Rec	1	5/3/2019 10:59:58 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/6/2019 11:25:19 PM	44675
Toluene	ND	0.056		mg/Kg-dr	1	5/6/2019 11:25:19 PM	44675
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/6/2019 11:25:19 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/6/2019 11:25:19 PM	44675
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	5/6/2019 11:25:19 PM	44675
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/6/2019 11:25:19 PM	44675
Surr: Dibromofluoromethane	115	70-130		%Rec	1	5/6/2019 11:25:19 PM	44675
Surr: Toluene-d8	91.8	70-130		%Rec	1	5/6/2019 11:25:19 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-031

Project: NEU 315H

Collection Date: 4/29/2019 3:30:00 PM

Lab ID: 1905003-082

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.9	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/7/2019 8:00:10 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/6/2019 11:54:05 PM	44675
Surr: BFB	110	70-130		%Rec	1	5/6/2019 11:54:05 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg-dr	1	5/3/2019 11:24:01 AM	44644
Motor Oil Range Organics (MRO)	ND	44		mg/Kg-dr	1	5/3/2019 11:24:01 AM	44644
Surr: DNOP	94.7	70-130		%Rec	1	5/3/2019 11:24:01 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/6/2019 11:54:05 PM	44675
Toluene	ND	0.052		mg/Kg-dr	1	5/6/2019 11:54:05 PM	44675
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/6/2019 11:54:05 PM	44675
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/6/2019 11:54:05 PM	44675
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	5/6/2019 11:54:05 PM	44675
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	5/6/2019 11:54:05 PM	44675
Surr: Dibromofluoromethane	117	70-130		%Rec	1	5/6/2019 11:54:05 PM	44675
Surr: Toluene-d8	93.1	70-130		%Rec	1	5/6/2019 11:54:05 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-032

Project: NEU 315H

Collection Date: 4/29/2019 3:33:00 PM

Lab ID: 1905003-083

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.1	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/7/2019 8:12:36 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/7/2019 12:22:48 AM	44675
Surr: BFB	106	70-130		%Rec	1	5/7/2019 12:22:48 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/3/2019 11:48:02 AM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 11:48:02 AM	44644
Surr: DNOP	93.2	70-130		%Rec	1	5/3/2019 11:48:02 AM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/7/2019 12:22:48 AM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/7/2019 12:22:48 AM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/7/2019 12:22:48 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 12:22:48 AM	44675
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	5/7/2019 12:22:48 AM	44675
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	5/7/2019 12:22:48 AM	44675
Surr: Dibromofluoromethane	117	70-130		%Rec	1	5/7/2019 12:22:48 AM	44675
Surr: Toluene-d8	89.4	70-130		%Rec	1	5/7/2019 12:22:48 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-033

Project: NEU 315H

Collection Date: 4/29/2019 3:27:00 PM

Lab ID: 1905003-084

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.6	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/7/2019 8:25:01 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/7/2019 12:51:32 AM	44675
Surr: BFB	109	70-130		%Rec	1	5/7/2019 12:51:32 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg-dr	1	5/3/2019 12:12:09 PM	44644
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/3/2019 12:12:09 PM	44644
Surr: DNOP	92.0	70-130		%Rec	1	5/3/2019 12:12:09 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/7/2019 12:51:32 AM	44675
Toluene	ND	0.055		mg/Kg-dr	1	5/7/2019 12:51:32 AM	44675
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/7/2019 12:51:32 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 12:51:32 AM	44675
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	5/7/2019 12:51:32 AM	44675
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	5/7/2019 12:51:32 AM	44675
Surr: Dibromofluoromethane	115	70-130		%Rec	1	5/7/2019 12:51:32 AM	44675
Surr: Toluene-d8	91.2	70-130		%Rec	1	5/7/2019 12:51:32 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-034

Project: NEU 315H

Collection Date: 4/29/2019 3:24:00 PM

Lab ID: 1905003-085

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	69		mg/Kg-dr	20	5/7/2019 8:37:26 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/7/2019 1:20:10 AM	44675
Surr: BFB	108	70-130		%Rec	1	5/7/2019 1:20:10 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 12:36:18 PM	44644
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/3/2019 12:36:18 PM	44644
Surr: DNOP	94.9	70-130		%Rec	1	5/3/2019 12:36:18 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/7/2019 1:20:10 AM	44675
Toluene	ND	0.056		mg/Kg-dr	1	5/7/2019 1:20:10 AM	44675
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/7/2019 1:20:10 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 1:20:10 AM	44675
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%Rec	1	5/7/2019 1:20:10 AM	44675
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	5/7/2019 1:20:10 AM	44675
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/7/2019 1:20:10 AM	44675
Surr: Toluene-d8	92.1	70-130		%Rec	1	5/7/2019 1:20:10 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-035

Project: NEU 315H

Collection Date: 4/29/2019 3:19:00 PM

Lab ID: 1905003-086

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	22	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	77		mg/Kg-dr	20	5/7/2019 8:49:51 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.3		mg/Kg-dr	1	5/7/2019 1:48:47 AM	44675
Surr: BFB	106	70-130		%Rec	1	5/7/2019 1:48:47 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dr	1	5/3/2019 1:00:25 PM	44644
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 1:00:25 PM	44644
Surr: DNOP	94.8	70-130		%Rec	1	5/3/2019 1:00:25 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.032		mg/Kg-dr	1	5/7/2019 1:48:47 AM	44675
Toluene	ND	0.063		mg/Kg-dr	1	5/7/2019 1:48:47 AM	44675
Ethylbenzene	ND	0.063		mg/Kg-dr	1	5/7/2019 1:48:47 AM	44675
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/7/2019 1:48:47 AM	44675
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	5/7/2019 1:48:47 AM	44675
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	5/7/2019 1:48:47 AM	44675
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/7/2019 1:48:47 AM	44675
Surr: Toluene-d8	90.5	70-130		%Rec	1	5/7/2019 1:48:47 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-036

Project: NEU 315H

Collection Date: 4/29/2019 3:16:00 PM

Lab ID: 1905003-087

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	70		mg/Kg-dr	20	5/7/2019 9:02:15 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/7/2019 2:17:23 AM	44675
Surr: BFB	107	70-130		%Rec	1	5/7/2019 2:17:23 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg-dr	1	5/3/2019 2:27:43 PM	44644
Motor Oil Range Organics (MRO)	ND	44		mg/Kg-dr	1	5/3/2019 2:27:43 PM	44644
Surr: DNOP	96.2	70-130		%Rec	1	5/3/2019 2:27:43 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/7/2019 2:17:23 AM	44675
Toluene	ND	0.057		mg/Kg-dr	1	5/7/2019 2:17:23 AM	44675
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/7/2019 2:17:23 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 2:17:23 AM	44675
Surr: 1,2-Dichloroethane-d4	98.4	70-130		%Rec	1	5/7/2019 2:17:23 AM	44675
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	5/7/2019 2:17:23 AM	44675
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/7/2019 2:17:23 AM	44675
Surr: Toluene-d8	92.4	70-130		%Rec	1	5/7/2019 2:17:23 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-037

Project: NEU 315H

Collection Date: 4/29/2019 3:13:00 PM

Lab ID: 1905003-088

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.1	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/7/2019 9:14:41 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/7/2019 2:46:01 AM	44675
Surr: BFB	108	70-130		%Rec	1	5/7/2019 2:46:01 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 2:51:42 PM	44644
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 2:51:42 PM	44644
Surr: DNOP	105	70-130		%Rec	1	5/3/2019 2:51:42 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/7/2019 2:46:01 AM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/7/2019 2:46:01 AM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/7/2019 2:46:01 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 2:46:01 AM	44675
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	5/7/2019 2:46:01 AM	44675
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	5/7/2019 2:46:01 AM	44675
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/7/2019 2:46:01 AM	44675
Surr: Toluene-d8	92.7	70-130		%Rec	1	5/7/2019 2:46:01 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-038

Project: NEU 315H

Collection Date: 4/29/2019 3:06:00 PM

Lab ID: 1905003-089

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/7/2019 9:27:05 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/7/2019 9:32:03 PM	44675
Surr: BFB	108	70-130		%Rec	1	5/7/2019 9:32:03 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 3:15:47 PM	44644
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/3/2019 3:15:47 PM	44644
Surr: DNOP	96.5	70-130		%Rec	1	5/3/2019 3:15:47 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/7/2019 9:32:03 PM	44675
Toluene	ND	0.059		mg/Kg-dr	1	5/7/2019 9:32:03 PM	44675
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/7/2019 9:32:03 PM	44675
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/7/2019 9:32:03 PM	44675
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	1	5/7/2019 9:32:03 PM	44675
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	5/7/2019 9:32:03 PM	44675
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/7/2019 9:32:03 PM	44675
Surr: Toluene-d8	92.0	70-130		%Rec	1	5/7/2019 9:32:03 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-039

Project: NEU 315H

Collection Date: 4/29/2019 3:05:00 PM

Lab ID: 1905003-090

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.2	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	64		mg/Kg-dr	20	5/7/2019 9:39:29 PM	44760
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/7/2019 10:00:47 PM	44675
Surr: BFB	109	70-130		%Rec	1	5/7/2019 10:00:47 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/3/2019 3:39:51 PM	44644
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/3/2019 3:39:51 PM	44644
Surr: DNOP	98.1	70-130		%Rec	1	5/3/2019 3:39:51 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/7/2019 10:00:47 PM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/7/2019 10:00:47 PM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/7/2019 10:00:47 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 10:00:47 PM	44675
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	5/7/2019 10:00:47 PM	44675
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	5/7/2019 10:00:47 PM	44675
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/7/2019 10:00:47 PM	44675
Surr: Toluene-d8	90.3	70-130		%Rec	1	5/7/2019 10:00:47 PM	44675

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SA-040**Project:** NEU 315H**Collection Date:** 4/29/2019 3:05:00 PM**Lab ID:** 1905003-091**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.2	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/7/2019 3:30:42 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/7/2019 10:29:22 PM	44675
Surr: BFB	108	70-130		%Rec	1	5/7/2019 10:29:22 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg-dr	1	5/3/2019 4:03:55 PM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 4:03:55 PM	44644
Surr: DNOP	99.6	70-130		%Rec	1	5/3/2019 4:03:55 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/7/2019 10:29:22 PM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/7/2019 10:29:22 PM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/7/2019 10:29:22 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 10:29:22 PM	44675
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	5/7/2019 10:29:22 PM	44675
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	5/7/2019 10:29:22 PM	44675
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/7/2019 10:29:22 PM	44675
Surr: Toluene-d8	91.8	70-130		%Rec	1	5/7/2019 10:29:22 PM	44675

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SA-041**Project:** NEU 315H**Collection Date:** 4/29/2019 3:01:00 PM**Lab ID:** 1905003-092**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.5	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	64		mg/Kg-dr	20	5/7/2019 3:43:07 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/7/2019 10:57:56 PM	44675
Surr: BFB	107	70-130		%Rec	1	5/7/2019 10:57:56 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/3/2019 4:27:56 PM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 4:27:56 PM	44644
Surr: DNOP	95.9	70-130		%Rec	1	5/3/2019 4:27:56 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/7/2019 10:57:56 PM	44675
Toluene	ND	0.052		mg/Kg-dr	1	5/7/2019 10:57:56 PM	44675
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/7/2019 10:57:56 PM	44675
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/7/2019 10:57:56 PM	44675
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	5/7/2019 10:57:56 PM	44675
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	5/7/2019 10:57:56 PM	44675
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/7/2019 10:57:56 PM	44675
Surr: Toluene-d8	91.1	70-130		%Rec	1	5/7/2019 10:57:56 PM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-042

Project: NEU 315H

Collection Date: 4/29/2019 2:53:00 PM

Lab ID: 1905003-093

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/9/2019 10:34:24 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/7/2019 11:26:39 PM	44675
Surr: BFB	109	70-130		%Rec	1	5/7/2019 11:26:39 PM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/3/2019 4:51:58 PM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 4:51:58 PM	44644
Surr: DNOP	95.5	70-130		%Rec	1	5/3/2019 4:51:58 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/7/2019 11:26:39 PM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/7/2019 11:26:39 PM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/7/2019 11:26:39 PM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/7/2019 11:26:39 PM	44675
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	5/7/2019 11:26:39 PM	44675
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	5/7/2019 11:26:39 PM	44675
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/7/2019 11:26:39 PM	44675
Surr: Toluene-d8	92.5	70-130		%Rec	1	5/7/2019 11:26:39 PM	44675

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SA-043**Project:** NEU 315H**Collection Date:** 4/29/2019 2:52:00 PM**Lab ID:** 1905003-094**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	2.9	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	62		mg/Kg-dr	20	5/7/2019 5:09:59 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dr	1	5/8/2019 3:16:27 AM	44675
Surr: BFB	107	70-130		%Rec	1	5/8/2019 3:16:27 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.6		mg/Kg-dr	1	5/3/2019 5:16:09 PM	44644
Motor Oil Range Organics (MRO)	ND	43		mg/Kg-dr	1	5/3/2019 5:16:09 PM	44644
Surr: DNOP	94.6	70-130		%Rec	1	5/3/2019 5:16:09 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	5/8/2019 3:16:27 AM	44675
Toluene	ND	0.050		mg/Kg-dr	1	5/8/2019 3:16:27 AM	44675
Ethylbenzene	ND	0.050		mg/Kg-dr	1	5/8/2019 3:16:27 AM	44675
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/8/2019 3:16:27 AM	44675
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	5/8/2019 3:16:27 AM	44675
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	5/8/2019 3:16:27 AM	44675
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/8/2019 3:16:27 AM	44675
Surr: Toluene-d8	91.1	70-130		%Rec	1	5/8/2019 3:16:27 AM	44675

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

Analytical Report

Lab Order 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-044

Project: NEU 315H

Collection Date: 4/29/2019 2:49:00 PM

Lab ID: 1905003-095

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.4	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	65		mg/Kg-dr	20	5/7/2019 5:22:23 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/8/2019 3:45:10 AM	44675
Surr: BFB	108	70-130		%Rec	1	5/8/2019 3:45:10 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg-dr	1	5/3/2019 5:40:38 PM	44644
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/3/2019 5:40:38 PM	44644
Surr: DNOP	96.0	70-130		%Rec	1	5/3/2019 5:40:38 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/8/2019 3:45:10 AM	44675
Toluene	ND	0.053		mg/Kg-dr	1	5/8/2019 3:45:10 AM	44675
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/8/2019 3:45:10 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 3:45:10 AM	44675
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	5/8/2019 3:45:10 AM	44675
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/8/2019 3:45:10 AM	44675
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/8/2019 3:45:10 AM	44675
Surr: Toluene-d8	90.8	70-130		%Rec	1	5/8/2019 3:45:10 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-045

Project: NEU 315H

Collection Date: 4/29/2019 2:48:00 PM

Lab ID: 1905003-096

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/7/2019 5:34:48 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/8/2019 4:13:54 AM	44675
Surr: BFB	107	70-130		%Rec	1	5/8/2019 4:13:54 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 6:05:13 PM	44644
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 6:05:13 PM	44644
Surr: DNOP	98.1	70-130		%Rec	1	5/3/2019 6:05:13 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/8/2019 4:13:54 AM	44675
Toluene	ND	0.056		mg/Kg-dr	1	5/8/2019 4:13:54 AM	44675
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/8/2019 4:13:54 AM	44675
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 4:13:54 AM	44675
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	5/8/2019 4:13:54 AM	44675
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	5/8/2019 4:13:54 AM	44675
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/8/2019 4:13:54 AM	44675
Surr: Toluene-d8	90.3	70-130		%Rec	1	5/8/2019 4:13:54 AM	44675

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-046

Project: NEU 315H

Collection Date: 4/29/2019 2:39:00 PM

Lab ID: 1905003-097

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	71		mg/Kg-dr	20	5/7/2019 5:47:12 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/8/2019 4:42:37 AM	44675
Surr: BFB	109	70-130		%Rec	1	5/8/2019 4:42:37 AM	44675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/3/2019 6:29:53 PM	44644
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/3/2019 6:29:53 PM	44644
Surr: DNOP	95.0	70-130		%Rec	1	5/3/2019 6:29:53 PM	44644
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/8/2019 4:42:37 AM	44675
Toluene	ND	0.059		mg/Kg-dr	1	5/8/2019 4:42:37 AM	44675
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/8/2019 4:42:37 AM	44675
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 4:42:37 AM	44675
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	1	5/8/2019 4:42:37 AM	44675
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	5/8/2019 4:42:37 AM	44675
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/8/2019 4:42:37 AM	44675
Surr: Toluene-d8	93.5	70-130		%Rec	1	5/8/2019 4:42:37 AM	44675

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** SA-047**Project:** NEU 315H**Collection Date:** 4/29/2019 2:40:00 PM**Lab ID:** 1905003-098**Matrix:** SOIL**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	67		mg/Kg-dr	20	5/7/2019 5:59:37 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/8/2019 5:11:24 AM	44677
Surr: BFB	107	70-130		%Rec	1	5/8/2019 5:11:24 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 8:32:32 PM	44645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 8:32:32 PM	44645
Surr: DNOP	96.5	70-130		%Rec	1	5/3/2019 8:32:32 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 5:11:24 AM	44677
Toluene	ND	0.055		mg/Kg-dr	1	5/8/2019 5:11:24 AM	44677
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/8/2019 5:11:24 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 5:11:24 AM	44677
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%Rec	1	5/8/2019 5:11:24 AM	44677
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	5/8/2019 5:11:24 AM	44677
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/8/2019 5:11:24 AM	44677
Surr: Toluene-d8	91.1	70-130		%Rec	1	5/8/2019 5:11:24 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-048

Project: NEU 315H

Collection Date: 4/29/2019 2:33:00 PM

Lab ID: 1905003-099

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	5.5	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	63		mg/Kg-dr	20	5/7/2019 6:12:01 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	5/8/2019 6:37:22 AM	44677
Surr: BFB	110	70-130		%Rec	1	5/8/2019 6:37:22 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg-dr	1	5/3/2019 8:57:06 PM	44645
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/3/2019 8:57:06 PM	44645
Surr: DNOP	97.4	70-130		%Rec	1	5/3/2019 8:57:06 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/8/2019 6:37:22 AM	44677
Toluene	ND	0.051		mg/Kg-dr	1	5/8/2019 6:37:22 AM	44677
Ethylbenzene	ND	0.051		mg/Kg-dr	1	5/8/2019 6:37:22 AM	44677
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/8/2019 6:37:22 AM	44677
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	5/8/2019 6:37:22 AM	44677
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	5/8/2019 6:37:22 AM	44677
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/8/2019 6:37:22 AM	44677
Surr: Toluene-d8	90.2	70-130		%Rec	1	5/8/2019 6:37:22 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-049

Project: NEU 315H

Collection Date: 4/29/2019 2:34:00 PM

Lab ID: 1905003-100

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.2	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	66		mg/Kg-dr	20	5/7/2019 6:24:26 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/8/2019 8:03:34 AM	44677
Surr: BFB	108	70-130		%Rec	1	5/8/2019 8:03:34 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg-dr	1	5/3/2019 9:21:41 PM	44645
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/3/2019 9:21:41 PM	44645
Surr: DNOP	95.9	70-130		%Rec	1	5/3/2019 9:21:41 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/8/2019 8:03:34 AM	44677
Toluene	ND	0.052		mg/Kg-dr	1	5/8/2019 8:03:34 AM	44677
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/8/2019 8:03:34 AM	44677
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/8/2019 8:03:34 AM	44677
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	5/8/2019 8:03:34 AM	44677
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	5/8/2019 8:03:34 AM	44677
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/8/2019 8:03:34 AM	44677
Surr: Toluene-d8	90.5	70-130		%Rec	1	5/8/2019 8:03:34 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-050

Project: NEU 315H

Collection Date: 4/29/2019 2:37:00 PM

Lab ID: 1905003-101

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/10/2019 11:20:47 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/8/2019 8:32:11 AM	44677
Surr: BFB	109	70-130		%Rec	1	5/8/2019 8:32:11 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/3/2019 10:10:39 PM	44645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 10:10:39 PM	44645
Surr: DNOP	95.1	70-130		%Rec	1	5/3/2019 10:10:39 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/8/2019 8:32:11 AM	44677
Toluene	ND	0.059		mg/Kg-dr	1	5/8/2019 8:32:11 AM	44677
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/8/2019 8:32:11 AM	44677
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 8:32:11 AM	44677
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	5/8/2019 8:32:11 AM	44677
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	5/8/2019 8:32:11 AM	44677
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/8/2019 8:32:11 AM	44677
Surr: Toluene-d8	91.3	70-130		%Rec	1	5/8/2019 8:32:11 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-051

Project: NEU 315H

Collection Date: 4/29/2019 2:42:00 PM

Lab ID: 1905003-102

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.2	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/10/2019 11:33:12 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 3:45:06 AM	44677
Surr: BFB	107	70-130		%Rec	1	5/9/2019 3:45:06 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/3/2019 10:35:06 PM	44645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/3/2019 10:35:06 PM	44645
Surr: DNOP	106	70-130		%Rec	1	5/3/2019 10:35:06 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 3:45:06 AM	44677
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 3:45:06 AM	44677
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 3:45:06 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 3:45:06 AM	44677
Surr: 1,2-Dichloroethane-d4	89.1	70-130		%Rec	1	5/9/2019 3:45:06 AM	44677
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	5/9/2019 3:45:06 AM	44677
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/9/2019 3:45:06 AM	44677
Surr: Toluene-d8	88.4	70-130		%Rec	1	5/9/2019 3:45:06 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-052

Project: NEU 315H

Collection Date: 4/29/2019 2:31:00 PM

Lab ID: 1905003-103

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	69		mg/Kg-dr	20	5/10/2019 11:45:36 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 4:13:52 AM	44677
Surr: BFB	110	70-130		%Rec	1	5/9/2019 4:13:52 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg-dr	1	5/3/2019 10:59:28 PM	44645
Motor Oil Range Organics (MRO)	ND	45		mg/Kg-dr	1	5/3/2019 10:59:28 PM	44645
Surr: DNOP	96.1	70-130		%Rec	1	5/3/2019 10:59:28 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 4:13:52 AM	44677
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 4:13:52 AM	44677
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 4:13:52 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 4:13:52 AM	44677
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%Rec	1	5/9/2019 4:13:52 AM	44677
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	5/9/2019 4:13:52 AM	44677
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/9/2019 4:13:52 AM	44677
Surr: Toluene-d8	91.7	70-130		%Rec	1	5/9/2019 4:13:52 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-053

Project: NEU 315H

Collection Date: 4/29/2019 2:15:00 PM

Lab ID: 1905003-104

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.5	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	91	65		mg/Kg-dr	20	5/10/2019 11:58:00 PM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 4:42:36 AM	44677
Surr: BFB	111	70-130		%Rec	1	5/9/2019 4:42:36 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	10		mg/Kg-dr	1	5/3/2019 11:23:48 PM	44645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/3/2019 11:23:48 PM	44645
Surr: DNOP	97.7	70-130		%Rec	1	5/3/2019 11:23:48 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 4:42:36 AM	44677
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 4:42:36 AM	44677
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 4:42:36 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 4:42:36 AM	44677
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%Rec	1	5/9/2019 4:42:36 AM	44677
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	5/9/2019 4:42:36 AM	44677
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/9/2019 4:42:36 AM	44677
Surr: Toluene-d8	89.5	70-130		%Rec	1	5/9/2019 4:42:36 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-054

Project: NEU 315H

Collection Date: 4/29/2019 2:18:00 PM

Lab ID: 1905003-105

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	75	64		mg/Kg-dr	20	5/11/2019 12:10:25 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 5:11:20 AM	44677
Surr: BFB	107	70-130		%Rec	1	5/9/2019 5:11:20 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg-dr	1	5/3/2019 11:48:05 PM	44645
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/3/2019 11:48:05 PM	44645
Surr: DNOP	100	70-130		%Rec	1	5/3/2019 11:48:05 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 5:11:20 AM	44677
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 5:11:20 AM	44677
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 5:11:20 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 5:11:20 AM	44677
Surr: 1,2-Dichloroethane-d4	90.8	70-130		%Rec	1	5/9/2019 5:11:20 AM	44677
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/9/2019 5:11:20 AM	44677
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/9/2019 5:11:20 AM	44677
Surr: Toluene-d8	89.1	70-130		%Rec	1	5/9/2019 5:11:20 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-055

Project: NEU 315H

Collection Date: 4/29/2019 2:15:00 PM

Lab ID: 1905003-106

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/11/2019 12:22:50 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	450	5.7		mg/Kg-dr	1	5/9/2019 5:40:04 AM	44677
Surr: BFB	120	70-130		%Rec	1	5/9/2019 5:40:04 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	4500	95		mg/Kg-dr	10	5/3/2019 1:24:32 PM	44645
Motor Oil Range Organics (MRO)	1300	470		mg/Kg-dr	10	5/3/2019 1:24:32 PM	44645
Surr: DNOP	0	70-130	S	%Rec	10	5/3/2019 1:24:32 PM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/9/2019 5:40:04 AM	44677
Toluene	1.0	0.057		mg/Kg-dr	1	5/9/2019 5:40:04 AM	44677
Ethylbenzene	1.6	0.057		mg/Kg-dr	1	5/9/2019 5:40:04 AM	44677
Xylenes, Total	12	0.11		mg/Kg-dr	1	5/9/2019 5:40:04 AM	44677
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	5/9/2019 5:40:04 AM	44677
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/9/2019 5:40:04 AM	44677
Surr: Dibromofluoromethane	142	70-130	S	%Rec	1	5/9/2019 5:40:04 AM	44677
Surr: Toluene-d8	92.0	70-130		%Rec	1	5/9/2019 5:40:04 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-056

Project: NEU 315H

Collection Date: 4/29/2019 2:03:00 PM

Lab ID: 1905003-107

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/11/2019 12:35:15 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/9/2019 8:06:23 PM	44677
Surr: BFB	109	70-130		%Rec	1	5/9/2019 8:06:23 PM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	38	9.5		mg/Kg-dr	1	5/4/2019 12:12:19 AM	44645
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/4/2019 12:12:19 AM	44645
Surr: DNOP	97.0	70-130		%Rec	1	5/4/2019 12:12:19 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/9/2019 6:08:50 AM	44677
Toluene	ND	0.058		mg/Kg-dr	1	5/9/2019 6:08:50 AM	44677
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/9/2019 6:08:50 AM	44677
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 6:08:50 AM	44677
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	5/9/2019 6:08:50 AM	44677
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	5/9/2019 6:08:50 AM	44677
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/9/2019 6:08:50 AM	44677
Surr: Toluene-d8	89.1	70-130		%Rec	1	5/9/2019 6:08:50 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-057

Project: NEU 315H

Collection Date: 4/29/2019 2:19:00 PM

Lab ID: 1905003-108

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	73		mg/Kg-dr	20	5/11/2019 12:47:39 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	13	6.0		mg/Kg-dr	1	5/9/2019 6:37:32 AM	44677
Surr: BFB	109	70-130		%Rec	1	5/9/2019 6:37:32 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	19	9.1		mg/Kg-dr	1	5/4/2019 12:36:31 AM	44645
Motor Oil Range Organics (MRO)	ND	46		mg/Kg-dr	1	5/4/2019 12:36:31 AM	44645
Surr: DNOP	97.6	70-130		%Rec	1	5/4/2019 12:36:31 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 6:37:32 AM	44677
Toluene	ND	0.060		mg/Kg-dr	1	5/9/2019 6:37:32 AM	44677
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/9/2019 6:37:32 AM	44677
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 6:37:32 AM	44677
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	5/9/2019 6:37:32 AM	44677
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	5/9/2019 6:37:32 AM	44677
Surr: Dibromofluoromethane	110	70-130		%Rec	1	5/9/2019 6:37:32 AM	44677
Surr: Toluene-d8	88.6	70-130		%Rec	1	5/9/2019 6:37:32 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-058

Project: NEU 315H

Collection Date: 4/29/2019 2:04:00 PM

Lab ID: 1905003-109

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/11/2019 1:24:53 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/9/2019 7:06:11 AM	44677
Surr: BFB	110	70-130		%Rec	1	5/9/2019 7:06:11 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	15	9.6		mg/Kg-dr	1	5/4/2019 1:00:39 AM	44645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/4/2019 1:00:39 AM	44645
Surr: DNOP	96.6	70-130		%Rec	1	5/4/2019 1:00:39 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 7:06:11 AM	44677
Toluene	ND	0.059		mg/Kg-dr	1	5/9/2019 7:06:11 AM	44677
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/9/2019 7:06:11 AM	44677
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 7:06:11 AM	44677
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%Rec	1	5/9/2019 7:06:11 AM	44677
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	5/9/2019 7:06:11 AM	44677
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/9/2019 7:06:11 AM	44677
Surr: Toluene-d8	89.6	70-130		%Rec	1	5/9/2019 7:06:11 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-059

Project: NEU 315H

Collection Date: 4/29/2019 2:00:00 PM

Lab ID: 1905003-110

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	5/11/2019 1:37:17 AM	44766
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/9/2019 7:34:52 AM	44677
Surr: BFB	110	70-130		%Rec	1	5/9/2019 7:34:52 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	17	10		mg/Kg-dr	1	5/4/2019 1:24:46 AM	44645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/4/2019 1:24:46 AM	44645
Surr: DNOP	101	70-130		%Rec	1	5/4/2019 1:24:46 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 7:34:52 AM	44677
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 7:34:52 AM	44677
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 7:34:52 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 7:34:52 AM	44677
Surr: 1,2-Dichloroethane-d4	90.3	70-130		%Rec	1	5/9/2019 7:34:52 AM	44677
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	5/9/2019 7:34:52 AM	44677
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/9/2019 7:34:52 AM	44677
Surr: Toluene-d8	88.8	70-130		%Rec	1	5/9/2019 7:34:52 AM	44677

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

Analytical Report

Lab Order 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-060

Project: NEU 315H

Collection Date: 4/29/2019 1:51:00 PM

Lab ID: 1905003-111

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/8/2019 12:12:04 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	270	5.9		mg/Kg-dr	1	5/9/2019 8:03:39 AM	44677
Surr: BFB	118	70-130		%Rec	1	5/9/2019 8:03:39 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	200	9.6		mg/Kg-dr	1	5/4/2019 1:48:47 AM	44645
Motor Oil Range Organics (MRO)	64	48		mg/Kg-dr	1	5/4/2019 1:48:47 AM	44645
Surr: DNOP	100	70-130		%Rec	1	5/4/2019 1:48:47 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 8:03:39 AM	44677
Toluene	0.28	0.059		mg/Kg-dr	1	5/9/2019 8:03:39 AM	44677
Ethylbenzene	0.57	0.059		mg/Kg-dr	1	5/9/2019 8:03:39 AM	44677
Xylenes, Total	4.9	0.12		mg/Kg-dr	1	5/9/2019 8:03:39 AM	44677
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%Rec	1	5/9/2019 8:03:39 AM	44677
Surr: 4-Bromofluorobenzene	77.8	70-130		%Rec	1	5/9/2019 8:03:39 AM	44677
Surr: Dibromofluoromethane	141	70-130	S	%Rec	1	5/9/2019 8:03:39 AM	44677
Surr: Toluene-d8	89.6	70-130		%Rec	1	5/9/2019 8:03:39 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-061

Project: NEU 315H

Collection Date: 4/29/2019 1:45:00 PM

Lab ID: 1905003-112

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.2	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/8/2019 12:49:17 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 8:32:24 AM	44677
Surr: BFB	109	70-130		%Rec	1	5/9/2019 8:32:24 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg-dr	1	5/4/2019 2:12:47 AM	44645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/4/2019 2:12:47 AM	44645
Surr: DNOP	97.9	70-130		%Rec	1	5/4/2019 2:12:47 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 8:32:24 AM	44677
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 8:32:24 AM	44677
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 8:32:24 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 8:32:24 AM	44677
Surr: 1,2-Dichloroethane-d4	86.6	70-130		%Rec	1	5/9/2019 8:32:24 AM	44677
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	5/9/2019 8:32:24 AM	44677
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/9/2019 8:32:24 AM	44677
Surr: Toluene-d8	87.3	70-130		%Rec	1	5/9/2019 8:32:24 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-062

Project: NEU 315H

Collection Date: 4/29/2019 1:44:00 PM

Lab ID: 1905003-113

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.9	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 1:01:42 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 9:01:09 AM	44677
Surr: BFB	113	70-130		%Rec	1	5/9/2019 9:01:09 AM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg-dr	1	5/4/2019 2:36:43 AM	44645
Motor Oil Range Organics (MRO)	ND	45		mg/Kg-dr	1	5/4/2019 2:36:43 AM	44645
Surr: DNOP	103	70-130		%Rec	1	5/4/2019 2:36:43 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 9:01:09 AM	44677
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 9:01:09 AM	44677
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 9:01:09 AM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 9:01:09 AM	44677
Surr: 1,2-Dichloroethane-d4	88.9	70-130		%Rec	1	5/9/2019 9:01:09 AM	44677
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/9/2019 9:01:09 AM	44677
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/9/2019 9:01:09 AM	44677
Surr: Toluene-d8	88.5	70-130		%Rec	1	5/9/2019 9:01:09 AM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-064

Project: NEU 315H

Collection Date: 4/29/2019 1:44:00 PM

Lab ID: 1905003-114

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.7	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 1:14:06 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 8:35:04 PM	44677
Surr: BFB	108	70-130		%Rec	1	5/9/2019 8:35:04 PM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	5/4/2019 3:00:41 AM	44645
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/4/2019 3:00:41 AM	44645
Surr: DNOP	103	70-130		%Rec	1	5/4/2019 3:00:41 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 8:35:04 PM	44677
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 8:35:04 PM	44677
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 8:35:04 PM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 8:35:04 PM	44677
Surr: 1,2-Dichloroethane-d4	89.1	70-130		%Rec	1	5/9/2019 8:35:04 PM	44677
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	5/9/2019 8:35:04 PM	44677
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/9/2019 8:35:04 PM	44677
Surr: Toluene-d8	89.9	70-130		%Rec	1	5/9/2019 8:35:04 PM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-065

Project: NEU 315H

Collection Date: 4/29/2019 1:30:00 PM

Lab ID: 1905003-115

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	16	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/8/2019 2:16:08 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/9/2019 9:03:41 PM	44677
Surr: BFB	108	70-130		%Rec	1	5/9/2019 9:03:41 PM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	5/4/2019 3:24:35 AM	44645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	5/4/2019 3:24:35 AM	44645
Surr: DNOP	105	70-130		%Rec	1	5/4/2019 3:24:35 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 9:03:41 PM	44677
Toluene	ND	0.057		mg/Kg-dr	1	5/9/2019 9:03:41 PM	44677
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/9/2019 9:03:41 PM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 9:03:41 PM	44677
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%Rec	1	5/9/2019 9:03:41 PM	44677
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	5/9/2019 9:03:41 PM	44677
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/9/2019 9:03:41 PM	44677
Surr: Toluene-d8	90.9	70-130		%Rec	1	5/9/2019 9:03:41 PM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-066

Project: NEU 315H

Collection Date: 4/29/2019 1:30:00 PM

Lab ID: 1905003-116

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	5/8/2019 2:28:32 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	7.8	5.6		mg/Kg-dr	1	5/9/2019 9:32:16 PM	44677
Surr: BFB	109	70-130		%Rec	1	5/9/2019 9:32:16 PM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	55	9.9		mg/Kg-dr	1	5/4/2019 3:48:29 AM	44645
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/4/2019 3:48:29 AM	44645
Surr: DNOP	100	70-130		%Rec	1	5/4/2019 3:48:29 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 9:32:16 PM	44677
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 9:32:16 PM	44677
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 9:32:16 PM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 9:32:16 PM	44677
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	5/9/2019 9:32:16 PM	44677
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	5/9/2019 9:32:16 PM	44677
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/9/2019 9:32:16 PM	44677
Surr: Toluene-d8	87.7	70-130		%Rec	1	5/9/2019 9:32:16 PM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-067

Project: NEU 315H

Collection Date: 4/29/2019 1:22:00 PM

Lab ID: 1905003-117

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	13	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	70		mg/Kg-dr	20	5/8/2019 2:40:57 PM	44769
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	5/9/2019 10:00:58 PM	44677
Surr: BFB	110	70-130		%Rec	1	5/9/2019 10:00:58 PM	44677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg-dr	1	5/4/2019 4:12:19 AM	44645
Motor Oil Range Organics (MRO)	ND	47		mg/Kg-dr	1	5/4/2019 4:12:19 AM	44645
Surr: DNOP	109	70-130		%Rec	1	5/4/2019 4:12:19 AM	44645
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.029		mg/Kg-dr	1	5/9/2019 10:00:58 PM	44677
Toluene	ND	0.057		mg/Kg-dr	1	5/9/2019 10:00:58 PM	44677
Ethylbenzene	ND	0.057		mg/Kg-dr	1	5/9/2019 10:00:58 PM	44677
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 10:00:58 PM	44677
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	5/9/2019 10:00:58 PM	44677
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	5/9/2019 10:00:58 PM	44677
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/9/2019 10:00:58 PM	44677
Surr: Toluene-d8	88.6	70-130		%Rec	1	5/9/2019 10:00:58 PM	44677

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-068

Project: NEU 315H

Collection Date: 4/29/2019 1:22:00 PM

Lab ID: 1905003-118

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.4	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 2:53:21 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 9:34:03 AM	44646
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 9:34:03 AM	44646
Surr: DNOP	99.6	70-130		%Rec	1	5/6/2019 9:34:03 AM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/8/2019 9:02:12 PM	44697
Surr: BFB	90.7	73.8-119		%Rec	1	5/8/2019 9:02:12 PM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/8/2019 9:02:12 PM	44697
Toluene	ND	0.053		mg/Kg-dr	1	5/8/2019 9:02:12 PM	44697
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/8/2019 9:02:12 PM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 9:02:12 PM	44697
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	5/8/2019 9:02:12 PM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-069

Project: NEU 315H

Collection Date: 4/29/2019 1:07:00 PM

Lab ID: 1905003-119

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	18	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/8/2019 3:05:45 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/6/2019 1:43:34 PM	44646
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/6/2019 1:43:34 PM	44646
Surr: DNOP	85.1	70-130		%Rec	1	5/6/2019 1:43:34 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/8/2019 10:10:42 PM	44697
Surr: BFB	92.8	73.8-119		%Rec	1	5/8/2019 10:10:42 PM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	5/8/2019 10:10:42 PM	44697
Toluene	ND	0.060		mg/Kg-dr	1	5/8/2019 10:10:42 PM	44697
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/8/2019 10:10:42 PM	44697
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 10:10:42 PM	44697
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	5/8/2019 10:10:42 PM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-070

Project: NEU 315H

Collection Date: 4/29/2019 1:05:00 PM

Lab ID: 1905003-120

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	5/8/2019 3:18:09 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 2:05:46 PM	44646
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 2:05:46 PM	44646
Surr: DNOP	86.7	70-130		%Rec	1	5/6/2019 2:05:46 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/8/2019 11:19:07 PM	44697
Surr: BFB	93.3	73.8-119		%Rec	1	5/8/2019 11:19:07 PM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/8/2019 11:19:07 PM	44697
Toluene	ND	0.056		mg/Kg-dr	1	5/8/2019 11:19:07 PM	44697
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/8/2019 11:19:07 PM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 11:19:07 PM	44697
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	5/8/2019 11:19:07 PM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-071

Project: NEU 315H

Collection Date: 4/29/2019 12:59:00 PM

Lab ID: 1905003-121

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	17	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/8/2019 3:30:33 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	12		mg/Kg-dr	1	5/6/2019 2:27:44 PM	44646
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/6/2019 2:27:44 PM	44646
Surr: DNOP	88.9	70-130		%Rec	1	5/6/2019 2:27:44 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/8/2019 11:41:51 PM	44697
Surr: BFB	91.8	73.8-119		%Rec	1	5/8/2019 11:41:51 PM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg-dr	1	5/8/2019 11:41:51 PM	44697
Toluene	ND	0.059		mg/Kg-dr	1	5/8/2019 11:41:51 PM	44697
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/8/2019 11:41:51 PM	44697
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 11:41:51 PM	44697
Surr: 4-Bromofluorobenzene	86.1	80-120		%Rec	1	5/8/2019 11:41:51 PM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-072

Project: NEU 315H

Collection Date: 4/29/2019 2:46:00 PM

Lab ID: 1905003-122

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	70		mg/Kg-dr	20	5/8/2019 3:42:58 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	18	11		mg/Kg-dr	1	5/6/2019 3:12:11 PM	44646
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/6/2019 3:12:11 PM	44646
Surr: DNOP	91.3	70-130		%Rec	1	5/6/2019 3:12:11 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	21	5.8		mg/Kg-dr	1	5/9/2019 12:04:26 AM	44697
Surr: BFB	233	73.8-119	S	%Rec	1	5/9/2019 12:04:26 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg-dr	1	5/9/2019 12:04:26 AM	44697
Toluene	ND	0.058		mg/Kg-dr	1	5/9/2019 12:04:26 AM	44697
Ethylbenzene	0.062	0.058		mg/Kg-dr	1	5/9/2019 12:04:26 AM	44697
Xylenes, Total	0.48	0.12		mg/Kg-dr	1	5/9/2019 12:04:26 AM	44697
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	5/9/2019 12:04:26 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-073

Project: NEU 315H

Collection Date: 4/29/2019 12:40:00 PM

Lab ID: 1905003-123

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/8/2019 3:55:22 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	20	12		mg/Kg-dr	1	5/6/2019 3:34:12 PM	44646
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	5/6/2019 3:34:12 PM	44646
Surr: DNOP	93.3	70-130		%Rec	1	5/6/2019 3:34:12 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/9/2019 12:27:05 AM	44697
Surr: BFB	98.8	73.8-119		%Rec	1	5/9/2019 12:27:05 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg-dr	1	5/9/2019 12:27:05 AM	44697
Toluene	ND	0.059		mg/Kg-dr	1	5/9/2019 12:27:05 AM	44697
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/9/2019 12:27:05 AM	44697
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 12:27:05 AM	44697
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	5/9/2019 12:27:05 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-074

Project: NEU 315H

Collection Date: 4/29/2019 12:47:00 PM

Lab ID: 1905003-124

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 4:07:47 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	29	11		mg/Kg-dr	1	5/6/2019 3:56:27 PM	44646
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/6/2019 3:56:27 PM	44646
Surr: DNOP	95.2	70-130		%Rec	1	5/6/2019 3:56:27 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 12:49:57 AM	44697
Surr: BFB	93.6	73.8-119		%Rec	1	5/9/2019 12:49:57 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 12:49:57 AM	44697
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 12:49:57 AM	44697
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 12:49:57 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 12:49:57 AM	44697
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/9/2019 12:49:57 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-075

Project: NEU 315H

Collection Date: 4/29/2019 12:26:00 PM

Lab ID: 1905003-125

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.8	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 4:45:01 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	37	11		mg/Kg-dr	1	5/6/2019 4:18:40 PM	44646
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 4:18:40 PM	44646
Surr: DNOP	103	70-130		%Rec	1	5/6/2019 4:18:40 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 1:12:48 AM	44697
Surr: BFB	92.4	73.8-119		%Rec	1	5/9/2019 1:12:48 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 1:12:48 AM	44697
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 1:12:48 AM	44697
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 1:12:48 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 1:12:48 AM	44697
Surr: 4-Bromofluorobenzene	88.8	80-120		%Rec	1	5/9/2019 1:12:48 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-076

Project: NEU 315H

Collection Date: 4/29/2019 12:23:00 PM

Lab ID: 1905003-126

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 4:57:26 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	27	11		mg/Kg-dr	1	5/6/2019 4:40:40 PM	44646
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/6/2019 4:40:40 PM	44646
Surr: DNOP	99.2	70-130		%Rec	1	5/6/2019 4:40:40 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/9/2019 1:35:34 AM	44697
Surr: BFB	93.2	73.8-119		%Rec	1	5/9/2019 1:35:34 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 1:35:34 AM	44697
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 1:35:34 AM	44697
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 1:35:34 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 1:35:34 AM	44697
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	5/9/2019 1:35:34 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-077

Project: NEU 315H

Collection Date: 4/29/2019 12:17:00 PM

Lab ID: 1905003-127

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	15	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/8/2019 5:09:51 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	19	12		mg/Kg-dr	1	5/6/2019 5:02:52 PM	44646
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/6/2019 5:02:52 PM	44646
Surr: DNOP	98.1	70-130		%Rec	1	5/6/2019 5:02:52 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/9/2019 1:58:11 AM	44697
Surr: BFB	93.7	73.8-119		%Rec	1	5/9/2019 1:58:11 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 1:58:11 AM	44697
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 1:58:11 AM	44697
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 1:58:11 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 1:58:11 AM	44697
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	5/9/2019 1:58:11 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-078

Project: NEU 315H

Collection Date: 4/29/2019 12:00:00 PM

Lab ID: 1905003-128

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.9	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 5:22:15 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	77	11		mg/Kg-dr	1	5/6/2019 5:25:08 PM	44646
Motor Oil Range Organics (MRO)	59	54		mg/Kg-dr	1	5/6/2019 5:25:08 PM	44646
Surr: DNOP	101	70-130		%Rec	1	5/6/2019 5:25:08 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 3:51:57 AM	44697
Surr: BFB	96.8	73.8-119		%Rec	1	5/9/2019 3:51:57 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 3:51:57 AM	44697
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 3:51:57 AM	44697
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 3:51:57 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 3:51:57 AM	44697
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	5/9/2019 3:51:57 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-079

Project: NEU 315H

Collection Date: 4/29/2019 11:52:00 AM

Lab ID: 1905003-129

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 5:34:39 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 5:47:46 PM	44646
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/6/2019 5:47:46 PM	44646
Surr: DNOP	96.3	70-130		%Rec	1	5/6/2019 5:47:46 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 4:14:48 AM	44697
Surr: BFB	92.7	73.8-119		%Rec	1	5/9/2019 4:14:48 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 4:14:48 AM	44697
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 4:14:48 AM	44697
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 4:14:48 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 4:14:48 AM	44697
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	5/9/2019 4:14:48 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-080

Project: NEU 315H

Collection Date: 4/29/2019 11:51:00 AM

Lab ID: 1905003-130

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	5/8/2019 5:47:04 PM	44769
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 6:10:13 PM	44646
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 6:10:13 PM	44646
Surr: DNOP	102	70-130		%Rec	1	5/6/2019 6:10:13 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/9/2019 4:37:36 AM	44697
Surr: BFB	89.8	73.8-119		%Rec	1	5/9/2019 4:37:36 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 4:37:36 AM	44697
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 4:37:36 AM	44697
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 4:37:36 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 4:37:36 AM	44697
Surr: 4-Bromofluorobenzene	84.9	80-120		%Rec	1	5/9/2019 4:37:36 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-081

Project: NEU 315H

Collection Date: 4/29/2019 11:38:00 AM

Lab ID: 1905003-131

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	5/8/2019 1:36:10 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	120	11		mg/Kg-dr	1	5/6/2019 6:32:43 PM	44646
Motor Oil Range Organics (MRO)	64	54		mg/Kg-dr	1	5/6/2019 6:32:43 PM	44646
Surr: DNOP	102	70-130		%Rec	1	5/6/2019 6:32:43 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 5:00:11 AM	44697
Surr: BFB	107	73.8-119		%Rec	1	5/9/2019 5:00:11 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 5:00:11 AM	44697
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 5:00:11 AM	44697
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 5:00:11 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 5:00:11 AM	44697
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	5/9/2019 5:00:11 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-083

Project: NEU 315H

Collection Date: 4/29/2019 11:27:00 AM

Lab ID: 1905003-132

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/8/2019 2:13:22 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 6:54:58 PM	44646
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 6:54:58 PM	44646
Surr: DNOP	102	70-130		%Rec	1	5/6/2019 6:54:58 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/9/2019 5:22:51 AM	44697
Surr: BFB	96.0	73.8-119		%Rec	1	5/9/2019 5:22:51 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 5:22:51 AM	44697
Toluene	ND	0.052		mg/Kg-dr	1	5/9/2019 5:22:51 AM	44697
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/9/2019 5:22:51 AM	44697
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 5:22:51 AM	44697
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	5/9/2019 5:22:51 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-084

Project: NEU 315H

Collection Date: 4/29/2019 11:20:00 AM

Lab ID: 1905003-133

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.4	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 2:25:48 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 7:17:28 PM	44646
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 7:17:28 PM	44646
Surr: DNOP	99.2	70-130		%Rec	1	5/6/2019 7:17:28 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	5/9/2019 5:45:43 AM	44697
Surr: BFB	95.7	73.8-119		%Rec	1	5/9/2019 5:45:43 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 5:45:43 AM	44697
Toluene	ND	0.051		mg/Kg-dr	1	5/9/2019 5:45:43 AM	44697
Ethylbenzene	ND	0.051		mg/Kg-dr	1	5/9/2019 5:45:43 AM	44697
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 5:45:43 AM	44697
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/9/2019 5:45:43 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-085

Project: NEU 315H

Collection Date: 4/29/2019 10:58:00 AM

Lab ID: 1905003-134

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 2:38:13 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	11		mg/Kg-dr	1	5/6/2019 7:39:54 PM	44646
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 7:39:54 PM	44646
Surr: DNOP	99.7	70-130		%Rec	1	5/6/2019 7:39:54 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 6:08:31 AM	44697
Surr: BFB	92.8	73.8-119		%Rec	1	5/9/2019 6:08:31 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 6:08:31 AM	44697
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 6:08:31 AM	44697
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 6:08:31 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 6:08:31 AM	44697
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	5/9/2019 6:08:31 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-086

Project: NEU 315H

Collection Date: 4/29/2019 11:00:00 AM

Lab ID: 1905003-135

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 2:50:38 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 8:02:21 PM	44646
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 8:02:21 PM	44646
Surr: DNOP	99.1	70-130		%Rec	1	5/6/2019 8:02:21 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 6:31:15 AM	44697
Surr: BFB	93.2	73.8-119		%Rec	1	5/9/2019 6:31:15 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 6:31:15 AM	44697
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 6:31:15 AM	44697
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 6:31:15 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 6:31:15 AM	44697
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	5/9/2019 6:31:15 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-087

Project: NEU 315H

Collection Date: 4/29/2019 10:46:00 AM

Lab ID: 1905003-136

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.3	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 3:03:02 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 8:24:41 PM	44646
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 8:24:41 PM	44646
Surr: DNOP	102	70-130		%Rec	1	5/6/2019 8:24:41 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 6:53:50 AM	44697
Surr: BFB	97.4	73.8-119		%Rec	1	5/9/2019 6:53:50 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 6:53:50 AM	44697
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 6:53:50 AM	44697
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 6:53:50 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 6:53:50 AM	44697
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	5/9/2019 6:53:50 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-088

Project: NEU 315H

Collection Date: 4/29/2019 10:32:00 AM

Lab ID: 1905003-137

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.8	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 3:40:16 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 8:47:02 PM	44646
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 8:47:02 PM	44646
Surr: DNOP	105	70-130		%Rec	1	5/6/2019 8:47:02 PM	44646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 7:16:21 AM	44697
Surr: BFB	97.4	73.8-119		%Rec	1	5/9/2019 7:16:21 AM	44697
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 7:16:21 AM	44697
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 7:16:21 AM	44697
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 7:16:21 AM	44697
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 7:16:21 AM	44697
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	5/9/2019 7:16:21 AM	44697

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-089

Project: NEU 315H

Collection Date: 4/29/2019 10:34:00 AM

Lab ID: 1905003-138

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.5	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 3:52:41 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 12:54:01 PM	44647
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/6/2019 12:54:01 PM	44647
Surr: DNOP	104	70-130		%Rec	1	5/6/2019 12:54:01 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/9/2019 6:06:45 PM	44698
Surr: BFB	89.6	73.8-119		%Rec	1	5/9/2019 6:06:45 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 6:06:45 PM	44698
Toluene	ND	0.053		mg/Kg-dr	1	5/9/2019 6:06:45 PM	44698
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/9/2019 6:06:45 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 6:06:45 PM	44698
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	5/9/2019 6:06:45 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-090

Project: NEU 315H

Collection Date: 4/29/2019 10:22:00 AM

Lab ID: 1905003-139

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	11	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 4:05:06 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	24	10		mg/Kg-dr	1	5/6/2019 2:11:06 PM	44647
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 2:11:06 PM	44647
Surr: DNOP	107	70-130		%Rec	1	5/6/2019 2:11:06 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/9/2019 7:14:32 PM	44698
Surr: BFB	90.1	73.8-119		%Rec	1	5/9/2019 7:14:32 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/9/2019 7:14:32 PM	44698
Toluene	ND	0.056		mg/Kg-dr	1	5/9/2019 7:14:32 PM	44698
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/9/2019 7:14:32 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 7:14:32 PM	44698
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	5/9/2019 7:14:32 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-091

Project: NEU 315H

Collection Date: 4/29/2019 10:07:00 AM

Lab ID: 1905003-140

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	4.6	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	63		mg/Kg-dr	20	5/8/2019 4:17:31 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 3:02:48 PM	44647
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/6/2019 3:02:48 PM	44647
Surr: DNOP	112	70-130		%Rec	1	5/6/2019 3:02:48 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/9/2019 8:22:26 PM	44698
Surr: BFB	89.0	73.8-119		%Rec	1	5/9/2019 8:22:26 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 8:22:26 PM	44698
Toluene	ND	0.052		mg/Kg-dr	1	5/9/2019 8:22:26 PM	44698
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/9/2019 8:22:26 PM	44698
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 8:22:26 PM	44698
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	5/9/2019 8:22:26 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-092

Project: NEU 315H

Collection Date: 4/29/2019 10:08:00 AM

Lab ID: 1905003-141

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	8.8	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	66		mg/Kg-dr	20	5/8/2019 4:29:55 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 3:27:11 PM	44647
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 3:27:11 PM	44647
Surr: DNOP	110	70-130		%Rec	1	5/6/2019 3:27:11 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 8:45:03 PM	44698
Surr: BFB	87.7	73.8-119		%Rec	1	5/9/2019 8:45:03 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 8:45:03 PM	44698
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 8:45:03 PM	44698
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 8:45:03 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 8:45:03 PM	44698
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	5/9/2019 8:45:03 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-093

Project: NEU 315H

Collection Date: 4/29/2019 9:55:00 AM

Lab ID: 1905003-142

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	4.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	62		mg/Kg-dr	20	5/8/2019 5:07:09 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	19	10		mg/Kg-dr	1	5/6/2019 3:51:31 PM	44647
Motor Oil Range Organics (MRO)	ND	51		mg/Kg-dr	1	5/6/2019 3:51:31 PM	44647
Surr: DNOP	128	70-130		%Rec	1	5/6/2019 3:51:31 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/9/2019 9:07:40 PM	44698
Surr: BFB	88.0	73.8-119		%Rec	1	5/9/2019 9:07:40 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 9:07:40 PM	44698
Toluene	ND	0.052		mg/Kg-dr	1	5/9/2019 9:07:40 PM	44698
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/9/2019 9:07:40 PM	44698
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 9:07:40 PM	44698
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	5/9/2019 9:07:40 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-094

Project: NEU 315H

Collection Date: 4/29/2019 9:41:00 AM

Lab ID: 1905003-143

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.5	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	82	64		mg/Kg-dr	20	5/8/2019 5:19:34 PM	44781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	24	10		mg/Kg-dr	1	5/6/2019 4:16:01 PM	44647
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 4:16:01 PM	44647
Surr: DNOP	111	70-130		%Rec	1	5/6/2019 4:16:01 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/9/2019 9:30:19 PM	44698
Surr: BFB	88.1	73.8-119		%Rec	1	5/9/2019 9:30:19 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 9:30:19 PM	44698
Toluene	ND	0.052		mg/Kg-dr	1	5/9/2019 9:30:19 PM	44698
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/9/2019 9:30:19 PM	44698
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 9:30:19 PM	44698
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	5/9/2019 9:30:19 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-095

Project: NEU 315H

Collection Date: 4/29/2019 9:48:00 AM

Lab ID: 1905003-144

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	14	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	70		mg/Kg-dr	20	5/8/2019 7:13:57 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 4:40:20 PM	44647
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/6/2019 4:40:20 PM	44647
Surr: DNOP	109	70-130		%Rec	1	5/6/2019 4:40:20 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/9/2019 9:52:58 PM	44698
Surr: BFB	89.7	73.8-119		%Rec	1	5/9/2019 9:52:58 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 9:52:58 PM	44698
Toluene	ND	0.055		mg/Kg-dr	1	5/9/2019 9:52:58 PM	44698
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/9/2019 9:52:58 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 9:52:58 PM	44698
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	5/9/2019 9:52:58 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-096

Project: NEU 315H

Collection Date: 4/29/2019 9:26:00 AM

Lab ID: 1905003-145

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	12	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	68		mg/Kg-dr	20	5/8/2019 7:26:22 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 5:04:43 PM	44647
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/6/2019 5:04:43 PM	44647
Surr: DNOP	111	70-130		%Rec	1	5/6/2019 5:04:43 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 10:15:46 PM	44698
Surr: BFB	87.4	73.8-119		%Rec	1	5/9/2019 10:15:46 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 10:15:46 PM	44698
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 10:15:46 PM	44698
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 10:15:46 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 10:15:46 PM	44698
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	5/9/2019 10:15:46 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-097

Project: NEU 315H

Collection Date: 4/29/2019 9:15:00 AM

Lab ID: 1905003-146

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	9.7	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 7:38:47 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 5:29:11 PM	44647
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	5/6/2019 5:29:11 PM	44647
Surr: DNOP	110	70-130		%Rec	1	5/6/2019 5:29:11 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/9/2019 10:38:31 PM	44698
Surr: BFB	86.5	73.8-119		%Rec	1	5/9/2019 10:38:31 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/9/2019 10:38:31 PM	44698
Toluene	ND	0.054		mg/Kg-dr	1	5/9/2019 10:38:31 PM	44698
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/9/2019 10:38:31 PM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/9/2019 10:38:31 PM	44698
Surr: 4-Bromofluorobenzene	88.0	80-120		%Rec	1	5/9/2019 10:38:31 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-098

Project: NEU 315H

Collection Date: 4/29/2019 9:24:00 AM

Lab ID: 1905003-147

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.4	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/8/2019 7:51:11 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 5:53:45 PM	44647
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 5:53:45 PM	44647
Surr: DNOP	108	70-130		%Rec	1	5/6/2019 5:53:45 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	5/9/2019 11:01:18 PM	44698
Surr: BFB	89.9	73.8-119		%Rec	1	5/9/2019 11:01:18 PM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 11:01:18 PM	44698
Toluene	ND	0.051		mg/Kg-dr	1	5/9/2019 11:01:18 PM	44698
Ethylbenzene	ND	0.051		mg/Kg-dr	1	5/9/2019 11:01:18 PM	44698
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/9/2019 11:01:18 PM	44698
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	5/9/2019 11:01:18 PM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-099

Project: NEU 315H

Collection Date: 4/29/2019 9:05:00 AM

Lab ID: 1905003-148

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	6.4	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/8/2019 8:03:35 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 6:18:13 PM	44647
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 6:18:13 PM	44647
Surr: DNOP	119	70-130		%Rec	1	5/6/2019 6:18:13 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	5/10/2019 12:09:47 AM	44698
Surr: BFB	87.2	73.8-119		%Rec	1	5/10/2019 12:09:47 AM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/10/2019 12:09:47 AM	44698
Toluene	ND	0.051		mg/Kg-dr	1	5/10/2019 12:09:47 AM	44698
Ethylbenzene	ND	0.051		mg/Kg-dr	1	5/10/2019 12:09:47 AM	44698
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/10/2019 12:09:47 AM	44698
Surr: 4-Bromofluorobenzene	88.3	80-120		%Rec	1	5/10/2019 12:09:47 AM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-100

Project: NEU 315H

Collection Date: 4/29/2019 9:00:00 AM

Lab ID: 1905003-149

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	10	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	67		mg/Kg-dr	20	5/8/2019 8:16:00 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	14	11		mg/Kg-dr	1	5/6/2019 6:42:47 PM	44647
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 6:42:47 PM	44647
Surr: DNOP	109	70-130		%Rec	1	5/6/2019 6:42:47 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/10/2019 12:32:34 AM	44698
Surr: BFB	86.6	73.8-119		%Rec	1	5/10/2019 12:32:34 AM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/10/2019 12:32:34 AM	44698
Toluene	ND	0.053		mg/Kg-dr	1	5/10/2019 12:32:34 AM	44698
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/10/2019 12:32:34 AM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/10/2019 12:32:34 AM	44698
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	5/10/2019 12:32:34 AM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-101

Project: NEU 315H

Collection Date: 4/29/2019 8:55:00 AM

Lab ID: 1905003-150

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: DJF
Percent Moisture	7.0	1.0		wt%	1	5/2/2019	R59615
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	5/8/2019 8:28:24 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.8		mg/Kg-dr	1	5/6/2019 7:07:20 PM	44647
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	5/6/2019 7:07:20 PM	44647
Surr: DNOP	94.5	70-130		%Rec	1	5/6/2019 7:07:20 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/10/2019 12:55:19 AM	44698
Surr: BFB	85.1	73.8-119		%Rec	1	5/10/2019 12:55:19 AM	44698
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/10/2019 12:55:19 AM	44698
Toluene	ND	0.053		mg/Kg-dr	1	5/10/2019 12:55:19 AM	44698
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/10/2019 12:55:19 AM	44698
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/10/2019 12:55:19 AM	44698
Surr: 4-Bromofluorobenzene	82.6	80-120		%Rec	1	5/10/2019 12:55:19 AM	44698

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-102

Project: NEU 315H

Collection Date: 4/29/2019 8:35:00 AM

Lab ID: 1905003-151

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	7.0	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	65		mg/Kg-dr	20	5/8/2019 9:05:37 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	33	9.9		mg/Kg-dr	1	5/6/2019 7:31:53 PM	44647
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dr	1	5/6/2019 7:31:53 PM	44647
Surr: DNOP	117	70-130		%Rec	1	5/6/2019 7:31:53 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	5/8/2019 6:34:23 PM	44705
Surr: BFB	95.0	73.8-119		%Rec	1	5/8/2019 6:34:23 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/8/2019 6:34:23 PM	44705
Toluene	ND	0.052		mg/Kg-dr	1	5/8/2019 6:34:23 PM	44705
Ethylbenzene	ND	0.052		mg/Kg-dr	1	5/8/2019 6:34:23 PM	44705
Xylenes, Total	ND	0.10		mg/Kg-dr	1	5/8/2019 6:34:23 PM	44705
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	5/8/2019 6:34:23 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-103

Project: NEU 315H

Collection Date: 4/29/2019 8:45:00 AM

Lab ID: 1905003-152

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	8.9	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 9:42:51 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	42	11		mg/Kg-dr	1	5/6/2019 7:56:23 PM	44647
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 7:56:23 PM	44647
Surr: DNOP	118	70-130		%Rec	1	5/6/2019 7:56:23 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg-dr	1	5/8/2019 7:44:18 PM	44705
Surr: BFB	97.8	73.8-119		%Rec	1	5/8/2019 7:44:18 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 7:44:18 PM	44705
Toluene	ND	0.053		mg/Kg-dr	1	5/8/2019 7:44:18 PM	44705
Ethylbenzene	ND	0.053		mg/Kg-dr	1	5/8/2019 7:44:18 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 7:44:18 PM	44705
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	5/8/2019 7:44:18 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-104

Project: NEU 315H

Collection Date: 4/29/2019 5:43:00 PM

Lab ID: 1905003-153

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	10	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 9:55:15 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	190	11		mg/Kg-dr	1	5/6/2019 8:21:00 PM	44647
Motor Oil Range Organics (MRO)	120	55		mg/Kg-dr	1	5/6/2019 8:21:00 PM	44647
Surr: DNOP	117	70-130		%Rec	1	5/6/2019 8:21:00 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/8/2019 8:54:13 PM	44705
Surr: BFB	97.8	73.8-119		%Rec	1	5/8/2019 8:54:13 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 8:54:13 PM	44705
Toluene	ND	0.055		mg/Kg-dr	1	5/8/2019 8:54:13 PM	44705
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/8/2019 8:54:13 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 8:54:13 PM	44705
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	5/8/2019 8:54:13 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-A

Project: NEU 315H

Collection Date: 4/29/2019 9:05:00 AM

Lab ID: 1905003-154

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	12	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	68		mg/Kg-dr	20	5/8/2019 10:07:40 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	16	11		mg/Kg-dr	1	5/6/2019 8:45:31 PM	44647
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dr	1	5/6/2019 8:45:31 PM	44647
Surr: DNOP	122	70-130		%Rec	1	5/6/2019 8:45:31 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/8/2019 9:17:35 PM	44705
Surr: BFB	98.5	73.8-119		%Rec	1	5/8/2019 9:17:35 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/8/2019 9:17:35 PM	44705
Toluene	ND	0.055		mg/Kg-dr	1	5/8/2019 9:17:35 PM	44705
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/8/2019 9:17:35 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 9:17:35 PM	44705
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	5/8/2019 9:17:35 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-B

Project: NEU 315H

Collection Date: 4/29/2019 11:53:00 AM

Lab ID: 1905003-155

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	11	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	5/8/2019 10:20:05 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 9:09:56 PM	44647
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 9:09:56 PM	44647
Surr: DNOP	120	70-130		%Rec	1	5/6/2019 9:09:56 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/8/2019 9:40:56 PM	44705
Surr: BFB	98.3	73.8-119		%Rec	1	5/8/2019 9:40:56 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 9:40:56 PM	44705
Toluene	ND	0.054		mg/Kg-dr	1	5/8/2019 9:40:56 PM	44705
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/8/2019 9:40:56 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 9:40:56 PM	44705
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	5/8/2019 9:40:56 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-C

Project: NEU 315H

Collection Date: 4/29/2019 1:53:00 PM

Lab ID: 1905003-156

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	17	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/8/2019 10:32:30 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	250	11		mg/Kg-dr	1	5/6/2019 9:34:24 PM	44647
Motor Oil Range Organics (MRO)	89	55		mg/Kg-dr	1	5/6/2019 9:34:24 PM	44647
Surr: DNOP	101	70-130		%Rec	1	5/6/2019 9:34:24 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	5/8/2019 10:04:17 PM	44705
Surr: BFB	106	73.8-119		%Rec	1	5/8/2019 10:04:17 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg-dr	1	5/8/2019 10:04:17 PM	44705
Toluene	ND	0.059		mg/Kg-dr	1	5/8/2019 10:04:17 PM	44705
Ethylbenzene	ND	0.059		mg/Kg-dr	1	5/8/2019 10:04:17 PM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 10:04:17 PM	44705
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	5/8/2019 10:04:17 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-D

Project: NEU 315H

Collection Date: 4/29/2019 3:05:00 PM

Lab ID: 1905003-157

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	8.6	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	5/8/2019 11:09:45 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 9:59:07 PM	44647
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	5/6/2019 9:59:07 PM	44647
Surr: DNOP	96.0	70-130		%Rec	1	5/6/2019 9:59:07 PM	44647
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/8/2019 10:27:39 PM	44705
Surr: BFB	106	73.8-119		%Rec	1	5/8/2019 10:27:39 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 10:27:39 PM	44705
Toluene	ND	0.054		mg/Kg-dr	1	5/8/2019 10:27:39 PM	44705
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/8/2019 10:27:39 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 10:27:39 PM	44705
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	5/8/2019 10:27:39 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-E

Project: NEU 315H

Collection Date: 4/29/2019 4:07:00 PM

Lab ID: 1905003-158

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	15	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	71		mg/Kg-dr	20	5/8/2019 11:22:09 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 9:24:01 AM	44648
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/6/2019 9:24:01 AM	44648
Surr: DNOP	89.9	70-130		%Rec	1	5/6/2019 9:24:01 AM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dr	1	5/8/2019 10:51:03 PM	44705
Surr: BFB	97.6	73.8-119		%Rec	1	5/8/2019 10:51:03 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg-dr	1	5/8/2019 10:51:03 PM	44705
Toluene	ND	0.058		mg/Kg-dr	1	5/8/2019 10:51:03 PM	44705
Ethylbenzene	ND	0.058		mg/Kg-dr	1	5/8/2019 10:51:03 PM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/8/2019 10:51:03 PM	44705
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	5/8/2019 10:51:03 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-082

Project: NEU 315H

Collection Date: 4/30/2019 1:40:00 PM

Lab ID: 1905003-159

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	8.0	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	210	65		mg/Kg-dr	20	5/8/2019 11:34:34 PM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	5/6/2019 3:34:33 PM	44648
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	5/6/2019 3:34:33 PM	44648
Surr: DNOP	94.6	70-130		%Rec	1	5/6/2019 3:34:33 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	5/8/2019 11:14:25 PM	44705
Surr: BFB	96.7	73.8-119		%Rec	1	5/8/2019 11:14:25 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 11:14:25 PM	44705
Toluene	ND	0.054		mg/Kg-dr	1	5/8/2019 11:14:25 PM	44705
Ethylbenzene	ND	0.054		mg/Kg-dr	1	5/8/2019 11:14:25 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 11:14:25 PM	44705
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	5/8/2019 11:14:25 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-063

Project: NEU 315H

Collection Date: 4/30/2019 1:50:00 PM

Lab ID: 1905003-160

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	13	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	69		mg/Kg-dr	20	5/9/2019 12:11:48 AM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 3:58:47 PM	44648
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/6/2019 3:58:47 PM	44648
Surr: DNOP	94.4	70-130		%Rec	1	5/6/2019 3:58:47 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg-dr	1	5/8/2019 11:37:45 PM	44705
Surr: BFB	103	73.8-119		%Rec	1	5/8/2019 11:37:45 PM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	5/8/2019 11:37:45 PM	44705
Toluene	ND	0.055		mg/Kg-dr	1	5/8/2019 11:37:45 PM	44705
Ethylbenzene	ND	0.055		mg/Kg-dr	1	5/8/2019 11:37:45 PM	44705
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/8/2019 11:37:45 PM	44705
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	5/8/2019 11:37:45 PM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-01

Project: NEU 315H

Collection Date: 4/29/2019 11:12:00 AM

Lab ID: 1905003-161

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	20	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	75		mg/Kg-dr	20	5/9/2019 12:24:12 AM	44802
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/6/2019 4:23:05 PM	44648
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	5/6/2019 4:23:05 PM	44648
Surr: DNOP	92.3	70-130		%Rec	1	5/6/2019 4:23:05 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/9/2019 1:35:26 AM	44705
Surr: BFB	96.2	73.8-119		%Rec	1	5/9/2019 1:35:26 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 1:35:26 AM	44705
Toluene	ND	0.060		mg/Kg-dr	1	5/9/2019 1:35:26 AM	44705
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/9/2019 1:35:26 AM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 1:35:26 AM	44705
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	5/9/2019 1:35:26 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-02

Project: NEU 315H

Collection Date: 4/29/2019 11:18:00 AM

Lab ID: 1905003-162

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	21	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	90	76		mg/Kg-dr	20	5/9/2019 2:34:37 PM	44822
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/6/2019 4:47:17 PM	44648
Motor Oil Range Organics (MRO)	ND	61		mg/Kg-dr	1	5/6/2019 4:47:17 PM	44648
Surr: DNOP	94.6	70-130		%Rec	1	5/6/2019 4:47:17 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg-dr	1	5/9/2019 1:58:55 AM	44705
Surr: BFB	104	73.8-119		%Rec	1	5/9/2019 1:58:55 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.031		mg/Kg-dr	1	5/9/2019 1:58:55 AM	44705
Toluene	ND	0.062		mg/Kg-dr	1	5/9/2019 1:58:55 AM	44705
Ethylbenzene	ND	0.062		mg/Kg-dr	1	5/9/2019 1:58:55 AM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 1:58:55 AM	44705
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	5/9/2019 1:58:55 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-03

Project: NEU 315H

Collection Date: 4/29/2019 11:20:00 AM

Lab ID: 1905003-163

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	23	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	77		mg/Kg-dr	20	5/9/2019 3:36:38 PM	44822
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	5/6/2019 5:11:35 PM	44648
Motor Oil Range Organics (MRO)	ND	64		mg/Kg-dr	1	5/6/2019 5:11:35 PM	44648
Surr: DNOP	92.5	70-130		%Rec	1	5/6/2019 5:11:35 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.3		mg/Kg-dr	1	5/9/2019 2:22:24 AM	44705
Surr: BFB	98.6	73.8-119		%Rec	1	5/9/2019 2:22:24 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.032		mg/Kg-dr	1	5/9/2019 2:22:24 AM	44705
Toluene	ND	0.063		mg/Kg-dr	1	5/9/2019 2:22:24 AM	44705
Ethylbenzene	ND	0.063		mg/Kg-dr	1	5/9/2019 2:22:24 AM	44705
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/9/2019 2:22:24 AM	44705
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	5/9/2019 2:22:24 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-04

Project: NEU 315H

Collection Date: 4/29/2019 11:24:00 AM

Lab ID: 1905003-164

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	23	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	79		mg/Kg-dr	20	5/9/2019 3:49:02 PM	44822
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/6/2019 5:36:13 PM	44648
Motor Oil Range Organics (MRO)	ND	62		mg/Kg-dr	1	5/6/2019 5:36:13 PM	44648
Surr: DNOP	95.4	70-130		%Rec	1	5/6/2019 5:36:13 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.4		mg/Kg-dr	1	5/9/2019 2:46:07 AM	44705
Surr: BFB	98.3	73.8-119		%Rec	1	5/9/2019 2:46:07 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.032		mg/Kg-dr	1	5/9/2019 2:46:07 AM	44705
Toluene	ND	0.064		mg/Kg-dr	1	5/9/2019 2:46:07 AM	44705
Ethylbenzene	ND	0.064		mg/Kg-dr	1	5/9/2019 2:46:07 AM	44705
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/9/2019 2:46:07 AM	44705
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	5/9/2019 2:46:07 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-05

Project: NEU 315H

Collection Date: 4/29/2019 11:26:00 AM

Lab ID: 1905003-165

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	20	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	75		mg/Kg-dr	20	5/9/2019 4:01:27 PM	44822
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/6/2019 6:01:00 PM	44648
Motor Oil Range Organics (MRO)	ND	61		mg/Kg-dr	1	5/6/2019 6:01:00 PM	44648
Surr: DNOP	94.9	70-130		%Rec	1	5/6/2019 6:01:00 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg-dr	1	5/9/2019 3:09:45 AM	44705
Surr: BFB	96.4	73.8-119		%Rec	1	5/9/2019 3:09:45 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 3:09:45 AM	44705
Toluene	ND	0.061		mg/Kg-dr	1	5/9/2019 3:09:45 AM	44705
Ethylbenzene	ND	0.061		mg/Kg-dr	1	5/9/2019 3:09:45 AM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 3:09:45 AM	44705
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	5/9/2019 3:09:45 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-06

Project: NEU 315H

Collection Date: 4/29/2019 11:28:00 AM

Lab ID: 1905003-166

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	17	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	5/9/2019 3:44:39 PM	44826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/6/2019 6:25:50 PM	44648
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	5/6/2019 6:25:50 PM	44648
Surr: DNOP	91.7	70-130		%Rec	1	5/6/2019 6:25:50 PM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/9/2019 3:33:17 AM	44705
Surr: BFB	95.3	73.8-119		%Rec	1	5/9/2019 3:33:17 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	5/9/2019 3:33:17 AM	44705
Toluene	ND	0.060		mg/Kg-dr	1	5/9/2019 3:33:17 AM	44705
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/9/2019 3:33:17 AM	44705
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/9/2019 3:33:17 AM	44705
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	5/9/2019 3:33:17 AM	44705

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-07

Project: NEU 315H

Collection Date: 4/29/2019 11:30:00 AM

Lab ID: 1905003-167

Matrix: SOIL

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	5.9	1.0		wt%	1	5/3/2019	R59661
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	64		mg/Kg-dr	20	5/9/2019 3:57:04 PM	44826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	4400	99		mg/Kg-dr	10	5/6/2019 9:48:09 AM	44648
Motor Oil Range Organics (MRO)	1500	500		mg/Kg-dr	10	5/6/2019 9:48:09 AM	44648
Surr: DNOP	0	70-130	S	%Rec	10	5/6/2019 9:48:09 AM	44648
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	46	5.3		mg/Kg-dr	1	5/9/2019 3:56:40 AM	44705
Surr: BFB	409	73.8-119	S	%Rec	1	5/9/2019 3:56:40 AM	44705
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	5/9/2019 3:56:40 AM	44705
Toluene	0.11	0.053		mg/Kg-dr	1	5/9/2019 3:56:40 AM	44705
Ethylbenzene	0.27	0.053		mg/Kg-dr	1	5/9/2019 3:56:40 AM	44705
Xylenes, Total	2.2	0.11		mg/Kg-dr	1	5/9/2019 3:56:40 AM	44705
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	5/9/2019 3:56:40 AM	44705

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** RB-042919**Project:** NEU 315H**Collection Date:** 4/29/2019 3:48:00 PM**Lab ID:** 1905003-168**Matrix:** AQUEOUS**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/7/2019 6:11:49 PM	SL59712
Toluene	ND	1.0		µg/L	1	5/7/2019 6:11:49 PM	SL59712
Ethylbenzene	ND	1.0		µg/L	1	5/7/2019 6:11:49 PM	SL59712
Xylenes, Total	ND	1.5		µg/L	1	5/7/2019 6:11:49 PM	SL59712
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	5/7/2019 6:11:49 PM	SL59712
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	5/7/2019 6:11:49 PM	SL59712
Surr: Dibromofluoromethane	109	70-130		%Rec	1	5/7/2019 6:11:49 PM	SL59712
Surr: Toluene-d8	93.1	70-130		%Rec	1	5/7/2019 6:11:49 PM	SL59712

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FB-042919

Project: NEU 315H

Collection Date: 4/29/2019 5:35:00 PM

Lab ID: 1905003-169

Matrix: AQUEOUS

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/7/2019 7:37:34 PM	SL59712
Toluene	ND	1.0		µg/L	1	5/7/2019 7:37:34 PM	SL59712
Ethylbenzene	ND	1.0		µg/L	1	5/7/2019 7:37:34 PM	SL59712
Xylenes, Total	ND	1.5		µg/L	1	5/7/2019 7:37:34 PM	SL59712
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	5/7/2019 7:37:34 PM	SL59712
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	5/7/2019 7:37:34 PM	SL59712
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/7/2019 7:37:34 PM	SL59712
Surr: Toluene-d8	91.4	70-130		%Rec	1	5/7/2019 7:37:34 PM	SL59712

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: Trip Blank

Project: NEU 315H

Collection Date:

Lab ID: 1905003-170

Matrix: AQUEOUS

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0	P	µg/L	1	5/7/2019 8:06:15 PM	SL59712
Toluene	ND	1.0	P	µg/L	1	5/7/2019 8:06:15 PM	SL59712
Ethylbenzene	ND	1.0	P	µg/L	1	5/7/2019 8:06:15 PM	SL59712
Xylenes, Total	ND	1.5	P	µg/L	1	5/7/2019 8:06:15 PM	SL59712
Surr: 1,2-Dichloroethane-d4	89.2	70-130	P	%Rec	1	5/7/2019 8:06:15 PM	SL59712
Surr: 4-Bromofluorobenzene	96.3	70-130	P	%Rec	1	5/7/2019 8:06:15 PM	SL59712
Surr: Dibromofluoromethane	107	70-130	P	%Rec	1	5/7/2019 8:06:15 PM	SL59712
Surr: Toluene-d8	91.6	70-130	P	%Rec	1	5/7/2019 8:06:15 PM	SL59712

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 1905003

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: Trip Blank

Project: NEU 315H

Collection Date:

Lab ID: 1905003-171

Matrix: AQUEOUS

Received Date: 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/7/2019 8:34:53 PM	SL59712
Toluene	ND	1.0		µg/L	1	5/7/2019 8:34:53 PM	SL59712
Ethylbenzene	ND	1.0		µg/L	1	5/7/2019 8:34:53 PM	SL59712
Xylenes, Total	ND	1.5		µg/L	1	5/7/2019 8:34:53 PM	SL59712
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%Rec	1	5/7/2019 8:34:53 PM	SL59712
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/7/2019 8:34:53 PM	SL59712
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/7/2019 8:34:53 PM	SL59712
Surr: Toluene-d8	91.1	70-130		%Rec	1	5/7/2019 8:34:53 PM	SL59712

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 ReportLab Order **1905003**Date Reported: **5/14/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** Trip Blank**Project:** NEU 315H**Collection Date:****Lab ID:** 1905003-172**Matrix:** AQUEOUS**Received Date:** 5/1/2019 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/7/2019 9:03:26 PM	SL59712
Toluene	ND	1.0		µg/L	1	5/7/2019 9:03:26 PM	SL59712
Ethylbenzene	ND	1.0		µg/L	1	5/7/2019 9:03:26 PM	SL59712
Xylenes, Total	ND	1.5		µg/L	1	5/7/2019 9:03:26 PM	SL59712
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%Rec	1	5/7/2019 9:03:26 PM	SL59712
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	5/7/2019 9:03:26 PM	SL59712
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/7/2019 9:03:26 PM	SL59712
Surr: Toluene-d8	91.6	70-130		%Rec	1	5/7/2019 9:03:26 PM	SL59712

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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44678	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44678	RunNo: 59589								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009347 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44678	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44678	RunNo: 59589								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009348 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.6	90	110			

Sample ID: MB-44699	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44699	RunNo: 59589								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009383 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44699	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44699	RunNo: 59589								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009384 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	90	110			

Sample ID: MB-44680	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44680	RunNo: 59616								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009780 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44680	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44680	RunNo: 59616								
Prep Date: 5/2/2019	Analysis Date: 5/2/2019	SeqNo: 2009781 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44703	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44703	RunNo: 59642								
Prep Date: 5/3/2019	Analysis Date: 5/3/2019	SeqNo: 2010565 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44703	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44703	RunNo: 59642								
Prep Date: 5/3/2019	Analysis Date: 5/3/2019	SeqNo: 2010566 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: MB-44735	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44735	RunNo: 59676								
Prep Date: 5/6/2019	Analysis Date: 5/6/2019	SeqNo: 2012072 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44735	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44735	RunNo: 59676								
Prep Date: 5/6/2019	Analysis Date: 5/6/2019	SeqNo: 2012073 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: MB-44766	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44766	RunNo: 59711								
Prep Date: 5/7/2019	Analysis Date: 5/7/2019	SeqNo: 2013318 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44766	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44766	RunNo: 59711								
Prep Date: 5/7/2019	Analysis Date: 5/7/2019	SeqNo: 2013319 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44760	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44760	RunNo: 59714								
Prep Date: 5/7/2019	Analysis Date: 5/7/2019	SeqNo: 2013449 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44760	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44760	RunNo: 59714								
Prep Date: 5/7/2019	Analysis Date: 5/7/2019	SeqNo: 2013450 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Sample ID: MB-44781	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44781	RunNo: 59715								
Prep Date: 5/8/2019	Analysis Date: 5/8/2019	SeqNo: 2014637 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44781	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44781	RunNo: 59715								
Prep Date: 5/8/2019	Analysis Date: 5/8/2019	SeqNo: 2014638 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID: MB-44769	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44769	RunNo: 59749								
Prep Date: 5/7/2019	Analysis Date: 5/8/2019	SeqNo: 2014939 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44769	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44769	RunNo: 59749								
Prep Date: 5/7/2019	Analysis Date: 5/8/2019	SeqNo: 2014940 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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44802	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44802	RunNo: 59749								
Prep Date: 5/8/2019	Analysis Date: 5/8/2019	SeqNo: 2014969 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44802	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44802	RunNo: 59749								
Prep Date: 5/8/2019	Analysis Date: 5/8/2019	SeqNo: 2014970 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.1	90	110			

Sample ID: MB-44822	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44822	RunNo: 59767								
Prep Date: 5/9/2019	Analysis Date: 5/9/2019	SeqNo: 2016110 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44822	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44822	RunNo: 59767								
Prep Date: 5/9/2019	Analysis Date: 5/9/2019	SeqNo: 2016111 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Sample ID: MB-44826	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44826	RunNo: 59766								
Prep Date: 5/9/2019	Analysis Date: 5/9/2019	SeqNo: 2016237 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44826	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44826	RunNo: 59766								
Prep Date: 5/9/2019	Analysis Date: 5/9/2019	SeqNo: 2016238 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44642	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44642	RunNo: 59575								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2007471 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	11		10.00		111	70	130			

Sample ID: LCS-44640	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44640	RunNo: 59576								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2007474 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.4	63.9	124			
Surr: DNOP	3.4		5.000		68.4	70	130			S

Sample ID: MB-44640	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44640	RunNo: 59576								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2007475 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	7.4		10.00		73.9	70	130			

Sample ID: LCS-44642	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44642	RunNo: 59575								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008208 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	63.9	124			
Surr: DNOP	4.7		5.000		93.9	70	130			

Sample ID: MB-44641	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44641	RunNo: 59577								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008225 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		95.2	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44641	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44641	RunNo: 59577								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008226 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	83.5	63.9	124			
Surr: DNOP	4.2		5.000		83.4	70	130			

Sample ID: 1905003-039AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-029-01	Batch ID: 44642	RunNo: 59575								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008246 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	11	56.45	0	106	53.5	126			
Surr: DNOP	5.5		5.645		97.8	70	130			

Sample ID: 1905003-039AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-029-01	Batch ID: 44642	RunNo: 59575								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008247 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	11	56.14	0	107	53.5	126	0.135	21.7	
Surr: DNOP	5.4		5.614		96.1	70	130	0	0	

Sample ID: 1905003-019AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-069-01	Batch ID: 44641	RunNo: 59577								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008516 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.2	46.21	0	91.9	53.5	126			
Surr: DNOP	4.4		4.621		94.3	70	130			

Sample ID: 1905003-019AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-069-01	Batch ID: 44641	RunNo: 59577								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2008517 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.6	47.89	0	81.6	53.5	126	8.33	21.7	
Surr: DNOP	4.0		4.789		84.1	70	130	0	0	

Sample ID: LCS-44643	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44643	RunNo: 59607								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009035 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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44643	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44643	RunNo: 59607								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009035 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	63.9	124			
Surr: DNOP	4.3		5.000		86.3	70	130			

Sample ID: MB-44643	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44643	RunNo: 59607								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009036 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	9.3		10.00		92.6	70	130			

Sample ID: 1905003-058AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-007	Batch ID: 44643	RunNo: 59607								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009473 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	12	59.92	124.8	12.8	53.5	126			S
Surr: DNOP	5.8		5.992		96.7	70	130			

Sample ID: 1905003-058AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-007	Batch ID: 44643	RunNo: 59607								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009474 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	190	12	60.14	124.8	115	53.5	126	37.6	21.7	R
Surr: DNOP	6.0		6.014		99.0	70	130	0	0	

Sample ID: MB-44644	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44644	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009865 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	8.9		10.00		89.0	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44644	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44644	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2009866 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.3	63.9	124			
Surr: DNOP	4.3		5.000		85.1	70	130			

Sample ID: MB-44645	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44645	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2010373 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	8.9		10.00		89.4	70	130			

Sample ID: LCS-44645	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44645	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2010374 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	63.9	124			
Surr: DNOP	4.3		5.000		85.8	70	130			

Sample ID: 1905003-078AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-027	Batch ID: 44644	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2010462 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.7	48.31	0	85.5	53.5	126			
Surr: DNOP	4.3		4.831		89.0	70	130			

Sample ID: 1905003-098AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-047	Batch ID: 44645	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010463 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	47.04	0	90.1	53.5	126			
Surr: DNOP	4.4		4.704		92.9	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-078AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-027	Batch ID: 44644	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/3/2019	SeqNo: 2010464 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	8.7	43.44	0	87.4	53.5	126	8.45	21.7	
Surr: DNOP	3.9		4.344		90.4	70	130	0	0	

Sample ID: 1905003-098AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-047	Batch ID: 44645	RunNo: 59626								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010465 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.0	45.25	0	95.8	53.5	126	2.20	21.7	
Surr: DNOP	4.5		4.525		98.9	70	130	0	0	

Sample ID: LCS-44647	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44647	RunNo: 59643								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2010611 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	63.9	124			
Surr: DNOP	4.4		5.000		88.3	70	130			

Sample ID: MB-44647	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44647	RunNo: 59643								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2010613 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	10		10.00		103	70	130			

Sample ID: 1905003-118AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-068	Batch ID: 44646	RunNo: 59644								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2010646 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	11	54.58	0	109	53.5	126			
Surr: DNOP	4.9		5.458		90.6	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44646	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44646	RunNo: 59644								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2010648 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	63.9	124			
Surr: DNOP	4.3		5.000		85.9	70	130			

Sample ID: MB-44646	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44646	RunNo: 59644								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2010649 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	9.2		10.00		92.3	70	130			

Sample ID: MB-44648	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44648	RunNo: 59657								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011095 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		89.7	70	130			

Sample ID: LCS-44648	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44648	RunNo: 59657								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011096 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.6	63.9	124			
Surr: DNOP	4.3		5.000		86.1	70	130			

Sample ID: 1905003-118AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-068	Batch ID: 44646	RunNo: 59644								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011112 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	11	52.58	0	106	53.5	126	6.49	21.7	
Surr: DNOP	4.1		5.258		78.8	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-138AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-089	Batch ID: 44647	RunNo: 59643								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011257 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.48	0	101	53.5	126			
Surr: DNOP	4.4		5.048		87.9	70	130			

Sample ID: 1905003-138AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-089	Batch ID: 44647	RunNo: 59643								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011258 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	11	53.11	0	99.8	53.5	126	3.58	21.7	
Surr: DNOP	4.8		5.311		91.1	70	130	0	0	

Sample ID: 1905003-158AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-E	Batch ID: 44648	RunNo: 59657								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011410 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	12	58.17	0	87.8	53.5	126			
Surr: DNOP	2.5		5.817		43.7	70	130			S

Sample ID: 1905003-158AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SA-E	Batch ID: 44648	RunNo: 59657								
Prep Date: 5/3/2019	Analysis Date: 5/6/2019	SeqNo: 2011411 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	12	58.00	0	88.3	53.5	126	0.225	21.7	
Surr: DNOP	2.8		5.800		47.9	70	130	0	0	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44653	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44653	RunNo: 59586								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009443 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.1	80.1	123			
Surr: BFB	1000		1000		101	73.8	119			

Sample ID: MB-44653	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44653	RunNo: 59586								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009444 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	890		1000		89.4	73.8	119			

Sample ID: 1905003-018AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-071-01	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009890 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.7	28.42	0	97.6	69.1	142			
Surr: BFB	1200		1137		102	73.8	119			

Sample ID: 1905003-018AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-071-01	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009891 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.7	28.56	0	112	69.1	142	14.2	20	
Surr: BFB	1200		1142		104	73.8	119	0	0	

Sample ID: LCS-44661	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009911 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	94.2	80.1	123			
Surr: BFB	1000		1000		101	73.8	119			

Sample ID: MB-44661	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009912 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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44661	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009912 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	900		1000		90.0	73.8	119			

Sample ID: 1905003-038AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-031-01	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010389 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.7	28.64	0	93.5	69.1	142			
Surr: BFB	1200		1146		102	73.8	119			

Sample ID: 1905003-038AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-031-01	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010391 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.8	29.06	0	94.2	69.1	142	2.22	20	
Surr: BFB	1200		1162		102	73.8	119	0	0	

Sample ID: 1905003-059AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-008	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010414 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.9	29.42	0	98.2	69.1	142			
Surr: BFB	1200		1177		103	73.8	119			

Sample ID: 1905003-059AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-008	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010415 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	6.0	30.05	0	102	69.1	142	5.54	20	
Surr: BFB	1200		1202		104	73.8	119	0	0	

Sample ID: LCS-44663	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010438 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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44663	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010438 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	96.4	80.1	123			
Surr: BFB	1100		1000		106	73.8	119			

Sample ID: LCS-44674	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010439 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	90.3	80.1	123			
Surr: BFB	990		1000		98.7	73.8	119			

Sample ID: MB-44663	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010440 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	930		1000		92.8	73.8	119			

Sample ID: MB-44674	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010442 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	900		1000		90.5	73.8	119			

Sample ID: LCS-44705	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44705	RunNo: 59659								
Prep Date: 5/3/2019	Analysis Date: 5/7/2019	SeqNo: 2011491 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80.1	123			
Surr: BFB	1100		1000		105	73.8	119			

Sample ID: MB-44705	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44705	RunNo: 59659								
Prep Date: 5/3/2019	Analysis Date: 5/7/2019	SeqNo: 2011493 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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44705	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44705	RunNo: 59659								
Prep Date: 5/3/2019	Analysis Date: 5/7/2019	SeqNo: 2011493 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	910		1000		91.1	73.8	119			

Sample ID: 1905003-151AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-102	Batch ID: 44705	RunNo: 59736								
Prep Date: 5/3/2019	Analysis Date: 5/8/2019	SeqNo: 2014413 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.2	26.23	0	90.2	69.1	142			
Surr: BFB	1100		1049		107	73.8	119			

Sample ID: 1905003-151AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-102	Batch ID: 44705	RunNo: 59736								
Prep Date: 5/3/2019	Analysis Date: 5/8/2019	SeqNo: 2014423 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.2	25.82	0	90.9	69.1	142	0.754	20	
Surr: BFB	1100		1033		107	73.8	119	0	0	

Sample ID: MB-44697	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014611 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	910		1000		91.2	73.8	119			

Sample ID: LCS-44697	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014612 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	97.6	80.1	123			
Surr: BFB	1000		1000		104	73.8	119			

Sample ID: 1905003-119AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-069	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014615 Units: mg/Kg-dry								
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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-119AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-069	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014615 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	6.0	30.20	0	90.0	69.1	142			
Surr: BFB	1300		1208		106	73.8	119			

Sample ID: 1905003-119AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-069	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014616 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	6.0	29.76	0	89.4	69.1	142	2.15	20	
Surr: BFB	1200		1190		104	73.8	119	0	0	

Sample ID: MB-44698	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017004 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	880		1000		88.3	73.8	119			

Sample ID: LCS-44698	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017005 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	86.0	80.1	123			
Surr: BFB	1000		1000		100	73.8	119			

Sample ID: 1905003-138AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-089	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017007 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.3	26.61	0	81.8	69.1	142			
Surr: BFB	1100		1064		101	73.8	119			

Sample ID: 1905003-138AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-089	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017008 Units: mg/Kg-dry								
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#: 1905003
14-May-19

Client: Enduring Resources
Project: NEU 315H

Sample ID: 1905003-138AMSD		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SA-089		Batch ID: 44698			RunNo: 59808					
Prep Date: 5/2/2019		Analysis Date: 5/9/2019			SeqNo: 2017008		Units: mg/Kg-dry			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.4	26.77	0	83.1	69.1	142	2.14	20	
Surr: BFB	1100		1071		102	73.8	119	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44653	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44653	RunNo: 59586								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009470 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	88.9	80	120			
Toluene	0.92	0.050	1.000	0	92.4	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

Sample ID: MB-44653	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44653	RunNo: 59586								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009471 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	0.90		1.000		90.0	80	120			

Sample ID: 1905003-019AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-069-01	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009925 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.029	1.165	0	113	63.9	127			
Toluene	1.5	0.058	1.165	0	130	69.9	131			
Ethylbenzene	1.5	0.058	1.165	0	131	71	132			
Xylenes, Total	4.5	0.12	3.495	0	130	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		1.165		96.8	80	120			

Sample ID: 1905003-019AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-069-01	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009926 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.6	0.029	1.158	0	140	63.9	127	21.2	20	RS
Toluene	1.5	0.058	1.158	0	126	69.9	131	3.78	20	
Ethylbenzene	1.5	0.058	1.158	0	127	71	132	3.95	20	
Xylenes, Total	4.4	0.12	3.474	0	126	71.8	131	3.77	20	
Surr: 4-Bromofluorobenzene	1.2		1.158		102	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-44661	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009945 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.3	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	80	120			

Sample ID: MB-44661	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44661	RunNo: 59629								
Prep Date: 5/1/2019	Analysis Date: 5/2/2019	SeqNo: 2009946 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	0.91		1.000		91.3	80	120			

Sample ID: 1905003-039AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-029-01	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010495 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.031	1.227	0	85.3	63.9	127			
Toluene	1.1	0.061	1.227	0.01217	88.0	69.9	131			
Ethylbenzene	1.1	0.061	1.227	0	91.7	71	132			
Xylenes, Total	3.4	0.12	3.682	0	91.5	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		1.227		91.0	80	120			

Sample ID: 1905003-039AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-029-01	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010496 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.031	1.242	0	83.7	63.9	127	0.733	20	
Toluene	1.1	0.062	1.242	0.01217	88.7	69.9	131	1.96	20	
Ethylbenzene	1.1	0.062	1.242	0	91.8	71	132	1.34	20	
Xylenes, Total	3.4	0.12	3.726	0	92.1	71.8	131	1.82	20	
Surr: 4-Bromofluorobenzene	1.1		1.242		91.7	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-058AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-007	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010516 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.030	1.189	0	94.0	63.9	127			
Toluene	1.2	0.059	1.189	0.01213	98.2	69.9	131			
Ethylbenzene	1.2	0.059	1.189	0.01425	99.9	71	132			
Xylenes, Total	3.6	0.12	3.568	0.03451	99.9	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		1.189		88.6	80	120			

Sample ID: 1905003-058AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-007	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010517 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.032	1.260	0	82.4	63.9	127	7.37	20	
Toluene	1.1	0.063	1.260	0.01213	85.9	69.9	131	7.51	20	
Ethylbenzene	1.1	0.063	1.260	0.01425	86.7	71	132	8.27	20	
Xylenes, Total	3.3	0.13	3.780	0.03451	87.3	71.8	131	7.62	20	
Surr: 4-Bromofluorobenzene	1.2		1.260		92.2	80	120	0	0	

Sample ID: LCS-44663	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010539 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.9	80	120			
Toluene	0.91	0.050	1.000	0	91.3	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	80	120			

Sample ID: LCS-44674	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.8	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-44663	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44663	RunNo: 59640								
Prep Date: 5/1/2019	Analysis Date: 5/3/2019	SeqNo: 2010541 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	0.93		1.000		92.9	80	120			

Sample ID: MB-44674	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44674	RunNo: 59640								
Prep Date: 5/2/2019	Analysis Date: 5/4/2019	SeqNo: 2010542 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	0.90		1.000		89.8	80	120			

Sample ID: LCS-44705	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44705	RunNo: 59659								
Prep Date: 5/3/2019	Analysis Date: 5/7/2019	SeqNo: 2011515 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.8	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.2	80	120			

Sample ID: MB-44705	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44705	RunNo: 59659								
Prep Date: 5/3/2019	Analysis Date: 5/7/2019	SeqNo: 2011516 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	0.90		1.000		89.5	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-152AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-103	Batch ID: 44705	RunNo: 59736								
Prep Date: 5/3/2019	Analysis Date: 5/8/2019	SeqNo: 2014506 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.027	1.090	0	77.5	63.9	127			
Toluene	0.88	0.054	1.090	0.01117	80.2	69.9	131			
Ethylbenzene	0.88	0.054	1.090	0	80.7	71	132			
Xylenes, Total	2.7	0.11	3.269	0	81.5	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		1.090		99.4	80	120			

Sample ID: 1905003-152AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-103	Batch ID: 44705	RunNo: 59736								
Prep Date: 5/3/2019	Analysis Date: 5/8/2019	SeqNo: 2014507 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.027	1.092	0	77.1	63.9	127	0.306	20	
Toluene	0.89	0.055	1.092	0.01117	80.1	69.9	131	0.0261	20	
Ethylbenzene	0.89	0.055	1.092	0	81.8	71	132	1.49	20	
Xylenes, Total	2.7	0.11	3.275	0	82.1	71.8	131	0.912	20	
Surr: 4-Bromofluorobenzene	1.1		1.092		98.3	80	120	0	0	

Sample ID: MB-44697	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014726 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	0.87		1.000		87.3	80	120			

Sample ID: LCS-44697	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014727 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	88.6	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-118AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-068	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014729 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.027	1.065	0	82.6	63.9	127			
Toluene	0.96	0.053	1.065	0	89.8	69.9	131			
Ethylbenzene	0.96	0.053	1.065	0	89.8	71	132			
Xylenes, Total	2.8	0.11	3.195	0	88.7	71.8	131			
Surr: 4-Bromofluorobenzene	1.0		1.065		94.9	80	120			

Sample ID: 1905003-118AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-068	Batch ID: 44697	RunNo: 59737								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2014730 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.026	1.059	0	103	63.9	127	21.7	20	R
Toluene	0.96	0.053	1.059	0	90.9	69.9	131	0.597	20	
Ethylbenzene	0.95	0.053	1.059	0	89.7	71	132	0.615	20	
Xylenes, Total	2.8	0.11	3.176	0	87.6	71.8	131	1.90	20	
Surr: 4-Bromofluorobenzene	1.0		1.059		94.3	80	120	0	0	

Sample ID: MB-44698	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017024 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	0.89		1.000		89.4	80	120			

Sample ID: LCS-44698	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017025 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.5	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-139AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-090	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017028	Units: mg/Kg-dry							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.027	1.074	0	74.9	63.9	127			
Toluene	0.97	0.054	1.074	0	90.2	69.9	131			
Ethylbenzene	0.97	0.054	1.074	0	90.0	71	132			
Xylenes, Total	2.9	0.11	3.222	0	89.3	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		1.074		101	80	120			

Sample ID: 1905003-139AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-090	Batch ID: 44698	RunNo: 59808								
Prep Date: 5/2/2019	Analysis Date: 5/9/2019	SeqNo: 2017029	Units: mg/Kg-dry							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.027	1.076	0	101	63.9	127	29.7	20	R
Toluene	0.97	0.054	1.076	0	90.2	69.9	131	0.210	20	
Ethylbenzene	0.96	0.054	1.076	0	89.1	71	132	0.827	20	
Xylenes, Total	2.8	0.11	3.228	0	87.9	71.8	131	1.36	20	
Surr: 4-Bromofluorobenzene	1.1		1.076		100	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-079ams		SampType: MS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: SA-028		Batch ID: 44675		RunNo: 59686						
Prep Date: 5/2/2019		Analysis Date: 5/6/2019		SeqNo: 2012450		Units: mg/Kg-dry				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.2	0.055	1.101	0	105	70	130			
Benzene	1.1	0.028	1.101	0	98.3	68.9	131			
Toluene	1.0	0.055	1.101	0	91.7	64.3	137			
Ethylbenzene	1.0	0.055	1.101	0	93.0	70	130			
Xylenes, Total	3.1	0.11	3.302	0	93.5	70	130			
1,2,4-Trimethylbenzene	0.81	0.055	1.101	0.01158	72.3	70	130			
1,3,5-Trimethylbenzene	0.93	0.055	1.101	0	84.4	70	130			
Naphthalene	0.93	0.11	1.101	0	84.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.55		0.5504		99.1	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5504		95.5	70	130			
Surr: Dibromofluoromethane	0.64		0.5504		115	70	130			
Surr: Toluene-d8	0.51		0.5504		91.9	70	130			

Sample ID: 1905003-079amsd		SampType: MSD		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: SA-028		Batch ID: 44675		RunNo: 59686						
Prep Date: 5/2/2019		Analysis Date: 5/6/2019		SeqNo: 2012451		Units: mg/Kg-dry				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.057	1.149	0	95.1	70	130	5.47	0	
Benzene	1.0	0.029	1.149	0	89.6	68.9	131	4.96	20	
Toluene	0.99	0.057	1.149	0	86.2	64.3	137	1.93	20	
Ethylbenzene	1.0	0.057	1.149	0	87.7	70	130	1.55	0	
Xylenes, Total	3.1	0.11	3.447	0	89.1	70	130	0.563	0	
1,2,4-Trimethylbenzene	0.80	0.057	1.149	0.01158	68.2	70	130	1.43	0	S
1,3,5-Trimethylbenzene	0.92	0.057	1.149	0	80.1	70	130	1.03	0	
Naphthalene	0.91	0.11	1.149	0	78.9	70	130	2.67	0	
Surr: 1,2-Dichloroethane-d4	0.56		0.5745		96.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.55		0.5745		96.0	70	130	0	0	
Surr: Dibromofluoromethane	0.64		0.5745		111	70	130	0	0	
Surr: Toluene-d8	0.53		0.5745		91.9	70	130	0	0	

Sample ID: lcs-44675		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS		Batch ID: 44675		RunNo: 59686						
Prep Date: 5/2/2019		Analysis Date: 5/6/2019		SeqNo: 2012461		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.050	1.000	0	98.1	70	130			
Benzene	0.94	0.025	1.000	0	93.7	70	130			
Toluene	0.92	0.050	1.000	0	91.6	70	130			
Ethylbenzene	0.90	0.050	1.000	0	90.5	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: lcs-44675	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012461			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	2.8	0.10	3.000	0	92.1	70	130			
1,2,4-Trimethylbenzene	0.75	0.050	1.000	0	75.0	70	130			
1,3,5-Trimethylbenzene	0.85	0.050	1.000	0	84.9	70	130			
Naphthalene	0.84	0.10	1.000	0	84.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.45		0.5000		90.1	70	130			

Sample ID: mb-44675	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012462			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
1,2-Dichloroethane (EDC)	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
1,2-Dibromoethane (EDB)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
Naphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.20								
1-Methylnaphthalene	ND	0.20								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.3	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.46		0.5000		91.1	70	130			

Sample ID: 1905003-099ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SA-048	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013380			Units: mg/Kg-dry					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.026	1.045	0	95.1	68.9	131			
Toluene	0.97	0.052	1.045	0	92.5	64.3	137			
Ethylbenzene	0.98	0.052	1.045	0	94.0	70	130			
Xylenes, Total	3.0	0.10	3.136	0	94.9	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-099ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SA-048	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013380 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5227		92.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5227		92.0	70	130			
Surr: Dibromofluoromethane	0.56		0.5227		107	70	130			
Surr: Toluene-d8	0.48		0.5227		91.7	70	130			

Sample ID: 1905003-099amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SA-048	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013381 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.016	0	93.3	68.9	131	4.76	20	
Toluene	0.92	0.051	1.016	0	90.1	64.3	137	5.49	20	
Ethylbenzene	0.93	0.051	1.016	0	91.8	70	130	5.24	0	
Xylenes, Total	2.8	0.10	3.049	0	92.1	70	130	5.75	0	
Surr: 1,2-Dichloroethane-d4	0.47		0.5081		92.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.5081		93.7	70	130	0	0	
Surr: Dibromofluoromethane	0.57		0.5081		111	70	130	0	0	
Surr: Toluene-d8	0.47		0.5081		91.7	70	130	0	0	

Sample ID: lcs-44677	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013384 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	70	130			
Toluene	0.95	0.050	1.000	0	95.4	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.0	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.1	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.8	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.45		0.5000		90.9	70	130			

Sample ID: mb-44677	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013385 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								

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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: mb-44677	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013385			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.4	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.45		0.5000		89.6	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: SL59712	RunNo: 59712								
Prep Date:	Analysis Date: 5/7/2019	SeqNo: 2013360		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.0	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.9	70	130			
Surr: Dibromofluoromethane	12		10.00		115	70	130			
Surr: Toluene-d8	9.2		10.00		91.6	70	130			

Sample ID: 1905003-168a ms	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: RB-042919	Batch ID: SL59712	RunNo: 59712								
Prep Date:	Analysis Date: 5/7/2019	SeqNo: 2013362		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	85.1	70	130			
Toluene	16	1.0	20.00	0	78.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.0	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.5	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.0		10.00		90.0	70	130			

Sample ID: 1905003-168a msd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: RB-042919	Batch ID: SL59712	RunNo: 59712								
Prep Date:	Analysis Date: 5/7/2019	SeqNo: 2013363		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	85.8	70	130	0.812	20	
Toluene	15	1.0	20.00	0	77.1	70	130	1.67	20	
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.5		10.00		95.5	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		107	70	130	0	0	
Surr: Toluene-d8	8.9		10.00		89.1	70	130	0	0	

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL59712	RunNo: 59712								
Prep Date:	Analysis Date: 5/7/2019	SeqNo: 2013368		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL59712	RunNo: 59712								
Prep Date:	Analysis Date: 5/7/2019	SeqNo: 2013368			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.8	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.4		10.00		94.2	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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-078ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-027	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012465 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.7	28.37	0	88.2	68.2	135			
Surr: BFB	610		567.4		107	70	130			

Sample ID: 1905003-078amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-027	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012466 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.7	28.43	0	87.8	68.2	135	0.255	20	
Surr: BFB	620		568.5		109	70	130	0	0	

Sample ID: lcs-44675	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012477 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: mb-44675	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 44675	RunNo: 59686								
Prep Date: 5/2/2019	Analysis Date: 5/6/2019	SeqNo: 2012478 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	540		500.0		108	70	130			

Sample ID: 1905003-098ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-047	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013402 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.4	27.23	0	88.2	68.2	135			
Surr: BFB	590		544.7		108	70	130			

Sample ID: 1905003-098amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-047	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013403 Units: mg/Kg-dry								
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#: **1905003****14-May-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 1905003-098amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-047	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013403			Units: mg/Kg-dry					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.5	27.75	0	84.6	68.2	135	2.35	20	
Surr: BFB	600		554.9		108	70	130	0	0	

Sample ID: lcs-44677	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013407			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	93.1	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: mb-44677	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 44677	RunNo: 59712								
Prep Date: 5/2/2019	Analysis Date: 5/8/2019	SeqNo: 2013408			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	540		500.0		108	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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**Work Order Number: **1905003**

RcptNo: 1

Received By: **Jevon Campisi** 5/1/2019 8:25:00 AMCompleted By: **Erin Melendrez** 5/1/2019 8:57:59 AMReviewed By: **YG 5/1/19**
LB: TO 05/01/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

TO 5/1/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			
2	2.0	Good	Yes			
3	2.4	Good	Yes			
4	3.2	Good	Yes			



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

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**

Work Order Number: **1905003**

RcptNo: 1

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
5	3.5	Good	Yes			

Chain-of-Custody Record

Client: Enduring Resources
James McDaniel
 Mailing Address: 200 Energy Ct
Farmington, NM 87401
 Phone #: 505-636-9731
 email or Fax#: jmcDaniel@enduringresources.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

EDD (Type) PDF

Date	Time	Matrix	Sample Name
4-24-19	0840	soil	SB-103-01
	0845		SB-101-01
	0858		SB-094-01
	0906		SB-097-01
	0910		SB-097-03
	0940		SB-095-01
	0955		SB-093-01
	1007		SB-091-01
	1025		SB-089-01
	1042		SB-087-01
	1100		SB-085-01
	1110		SB-083-01

Date: 4-30-19 Time: 12:03 Relinquished by: [Signature]
 Date: 4-30-19 Time: 13:03 Relinquished by: Caitlyn Mesa

4/30/19 2010 [Signature]
 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.

PAGE 1 of 15

Turn-Around Time:
☒ Standard ☐ Rush
 Project Name: NEU # 315 H
 Project #: 077919003

Project Manager:
James McDaniel - Enduring
Ashley Ager - LTE

Sampler: JA/DB
 On Ice: ☒ Yes ☐ No

of Coolers: 5

Cooler Temp (including CFI): 1.9°C / 2.1°C / 2.5°C / 3.3°C

Container Type and #

Preservative Type

HEAL No. 1905003

Container Type and #

Preservative Type

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www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX\ MTBE / TMB's (8021)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Chain-of-Custody Record

Client: Enduring Resources
 Mailing Address: James McDaniel
200 Energy Ct
Farmington, NM 87401
 Phone #: 505-646-9731
 email or Fax#: jimcdaniel@tenu.com
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type) PDF

Date	Time	Matrix	Sample Name
4-24-19	1135	Soil	SB-081-01
	1150		SB-079-01
	1210		SB-077-01
	1225		SB-075-01
	1300		SB-073-01
	1315		SB-071-01
	1325		SB-069-01
	1335		SB-067-01
	1345		SB-065-01
	1355		SB-063-01
	1400		SB-061-01
	1412		SB-059-01

Date: 4-30-19 Time: 12:03
 Relinquished by: Caiti McDaniel
 Date: 4-30-19 Time: 12:03
 Relinquished by: Caiti McDaniel

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.

PAGE 2 of 15

Turn-Around Time:
☒ Standard ☐ Rush
 Project Name: NEU #315H
 Project #: 077919003
 Project Manager:
James - Enduring
Ashley - LTE
 Sampler: JA/DB
 On Ice: ☒ Yes ☐ No
 # of Coolers: 5
 Cooler Temp (including CF): 1.9d 21.0/2.5c/3.3/3.6c

Container Type and #	Preservative Type	HEAL No.
1) 402	Cool	1905003
		-013
		-014
		-015
		-016
		-017
		-018
		-019
		-020
		-021
		-022
		-023
		-024

Received by: Caiti McDaniel Date: 4-30-19 Time: 12:03
 Received by: Caiti McDaniel Date: 4-30-19 Time: 12:03

Received by: Caiti McDaniel Date: 4-30-19 Time: 12:03
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 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MIBL / MIBS (8021)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Chain-of-Custody Record

Client: Enduring Resources
James McDaniel
 Mailing Address: 200 Energy et.
Farmington, NM 87401
 Phone #: 505-636-9731
 email or Fax#: jrmcdanielle@enduringresources.com
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

EDDD (Type) PDF
 Date Time Matrix Sample Name

4-24-19	1655	5011	SB-002-01
	1745		SB-104-01
	1300		SB-Pit-01
	1400		SB-Pit-07
	1526		SB-A
	1604		SB-B
	1505		SA-001
	1503		SA-002
	1652		SA-006
	1656		SA-007
	1507		SA-008
	1700		SA-009

Date: 4/30/19 Time: 15:15 Relinquished by: Caitlyn Meade
 Date: 4/30/19 Time: 2010 Relinquished by: Monty Walker

Turn-Around Time:
☒ Standard ☐ Rush
 Project Name: NEU #315H
 Project #: 077919003

Project Manager:
James - Enduring
Ashley - LTE

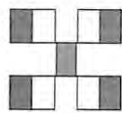
Sampler: SA/DB/EC/MM/TS/cn
 On Ice: ☒ Yes ☐ No
 # of Coolers: 5

Cooler Temp (including CFI): 1.92/2.18/2.56/3.36/3.60

Container Type and # 11462 Preservative Type cool HEAL No. 1905003

	-049
	-050
	-051
	-052
	-053
	-054
	-055
	-056
	-057
	-058
	-059
	-060

Received by: Chad Law Date: 4/30/19 Time: 1515
 Received by: Chad Law Date: 4/30/19 Time: 8:25



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

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

Remarks:

Report on dry weight basis
cc: durns@ltenv.com

PAGE 6 of 15

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	NEU # 315H	
Project #:	077919003	

Project Manager:	James - Enduring	
	Ashley - LTE	
Sampler:	CM/MM/TS/EC	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	5	
Cooler Temp	(including CFI): 19°/21°/25°/32°/36°	

Container Type and #	Preservative Type	HEAL No.
4oz jar	cool	1905003
		-061
		-062
		-063
		-064
		-065
		-066
		-067
		-068
		-069
		-070
		-071
		-072

Received by:	Via:	Date	Time
Christ Weber		4/30/9	1518
Received by:	Via:	Date	Time
FLC	Courier	5-1-19	8:25

[illegible]

marks: Report on a dry weight basis
CC: dkurns@kenv.com

Chain-of-Custody Record

Client: Enduring Resources
James McDaniel
 Mailing Address: 200 Energy Ct.
Farmington NM 87401
 Phone #: 505-636-9731
 email or Fax#: jimcdaniel@enduringresources.com
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type) PDE

Date	Time	Matrix	Sample Name
04/23/19	1559	S	SA-022
	1556		SA-023
	1555		SA-024
	1550		SA-025
	1548		SA-026
	1541		SA-027
	1539		SA-028
	1537		SA-029
	1537		SA-030
	1536		SA-031
	1533		SA-032
	1527		SA-033

Date: 4-30-19 Time: 15:15
 Relinquished by: Justin Mead
 Date: 4/30/19 Time: 2010
 Relinquished by: Justin Mead

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

NEU #315H

Project #:

077919003

Project Manager:

James - EnduringAshley - LTE

Sampler:

CM/MM/TS/ECOn Ice: ☒ Yes ☐ No# of Coolers: 5Cooler Temp (including CFI): 1.9°/2.1°/2.5°/3.3°/3.6°

Container Type and #

402 Jar

Preservative Type

Cool

HEAL No.

1905003

BTEX / MTBE / TMBs (0021)

X

TPH:8015D(GRO / DRO / MRO)

X

8081 Pesticides/8082 PCBs

X

EDB (Method 504.1)

X

PAHs by 8310 or 8270SIMS

X

RCRA 8 Metals

X

8260 (VOA)

X

8270 (Semi-VOA)

X

Total Coliform (Present/Absent)

X

Chloride, Bromide, Nitrate, Phosphate, Sulfate

X

Analysis Request

X

Remarks:

Report on a dry weight basisCC: dbarns@tenv.com5-1-19 8:25

Received by:

Justin Mead

Via:

Curier

Date

4/30/19

Time

15:18

Received by:

Justin Mead

Via:

Curier

Date

5-1-19

Time

8:25

Chain-of-Custody Record

Client: Enduring Resources
James McDaniels
 Mailing Address: 200 Energy Ct.
Farmington, NM 87401
 Phone #: 505-636-9731
 email or Fax#: Jmcdaniel@enduringresources.com
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type) PDE

Date	Time	Matrix	Sample Name
9-27-19	1404	Soil	SA-058
1	1400		SA-059
1	1351		SA-060
1	1345		SA-061
1	1344		SA-062
1	1344		SA-064
1	1330		SA-065
1	1330		SA-066
1	1322		SA-067
1	1322		SA-068
1	1307		SA-069
1	1305		SA-070

Date: 4-30-19 Time: 15:15
 Relinquished by: Caitlyn Mead
 Date: 4/30/19 Time: 2610
 Relinquished by: Matthew Wall

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

NEU #315H

Project #:

077919003

Project Manager:

James - Enduring
Ashley - LTE

Sampler:

CM/JMM/TS/ECOn Ice: ☒ Yes ☐ No# of Coolers: 5Cooler Temp (including CFI): 1.92/2.14/2.52/3.32/3.62

Container Type and #

Preservative Type

HEAL No. 1905003

402 Jar Cool

-109

-110

-111

-112

-113

-114

-115

-116

-117

-118

-119

-120

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time

Remarks:

Report on dry weight basis

CC: dburns@tenv.com

Client:	Enduring Resources
	James McDaniel
Mailing Address:	300 Energy Ct. Farmington, NM 87401
Phone #:	505 - 636 - 4731
email or Fax#:	James.McDaniel@enduringresources.com
QA/QC Package:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	<input type="checkbox"/> Az Compliance
<input type="checkbox"/> NELAC	<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> EDD (Type)	PDE

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

[illegible]

Remarks:

Report on dry weight basis

CC: dburns@tenv.com

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:	Enduring Resources
	James McDaniel
Mailing Address:	200 Energy Ct. Farmington, NM 87401
Phone #:	505-636-9731
email or Fax#:	j.mcdaniel@enduringresources.com

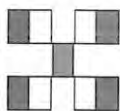
QA/QC Package:	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	<input type="checkbox"/> Az Compliance	
	<input type="checkbox"/> NELAC	<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> EDD (Type)	PDF	

Date	Time	Matrix	Sample Name
4-29-19	0926	Soil	SA-096
	0915		SA-097
	0924		SA-098
	0905		SA-099
	0900		SA-100
	0855		SA-101
	0835		SA-102
	0845		SA-103
	1743		SA-104
	0905		SA-A
	11:53		SA-B
	1745-2		SA-C

Date:	12/30/19	Time:	15:15	Relinquished by:	Caitie Moore
Date:	11/30/19	Time:	7:10	Relinquished by:	Charles Moore

If necessary, samples submitted to Hall Environmental may be subco

PAGE 13 4 15



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

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

Analysis Request

[illegible]

Remarks:	
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Report on dry weight basis
or: aburns@itenv.com

cc: aburns@tenv.com

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: www.hallenvironmental.com

May 17, 2019

James McDaniel
Enduring Resources
332 Road 3100
Aztec, NM 87140
TEL:
FAX

RE: NEU #315

OrderNo.: 1905494

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/9/2019 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-003

Project: NEU #315

Collection Date: 5/8/2019 10:45:00 AM

Lab ID: 1905494-001

Matrix: SOIL

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	17	1.0		wt%	1	5/10/2019 4:32:00 PM	R59848
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	72		mg/Kg-dr	20	5/13/2019 4:09:10 PM	44872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	5/13/2019 7:35:32 PM	44855
Motor Oil Range Organics (MRO)	ND	60		mg/Kg-dr	1	5/13/2019 7:35:32 PM	44855
Surr: DNOP	71.9	70-130		%Rec	1	5/13/2019 7:35:32 PM	44855
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dr	1	5/13/2019 11:14:11 PM	44846
Surr: BFB	93.6	73.8-119		%Rec	1	5/13/2019 11:14:11 PM	44846
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	5/13/2019 11:14:11 PM	44846
Toluene	ND	0.060		mg/Kg-dr	1	5/13/2019 11:14:11 PM	44846
Ethylbenzene	ND	0.060		mg/Kg-dr	1	5/13/2019 11:14:11 PM	44846
Xylenes, Total	ND	0.12		mg/Kg-dr	1	5/13/2019 11:14:11 PM	44846
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	5/13/2019 11:14:11 PM	44846

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-004

Project: NEU #315

Collection Date: 5/8/2019 10:38:00 AM

Lab ID: 1905494-002

Matrix: SOIL

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	28	1.0		wt%	1	5/10/2019 4:32:00 PM	R59848
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	83		mg/Kg-dr	20	5/13/2019 4:21:35 PM	44872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	5/15/2019 7:54:41 PM	44855
Motor Oil Range Organics (MRO)	ND	67		mg/Kg-dr	1	5/15/2019 7:54:41 PM	44855
Surr: DNOP	108	70-130		%Rec	1	5/15/2019 7:54:41 PM	44855
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.7		mg/Kg-dr	1	5/14/2019 12:24:00 AM	44846
Surr: BFB	94.8	73.8-119		%Rec	1	5/14/2019 12:24:00 AM	44846
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.033		mg/Kg-dr	1	5/14/2019 12:24:00 AM	44846
Toluene	ND	0.067		mg/Kg-dr	1	5/14/2019 12:24:00 AM	44846
Ethylbenzene	ND	0.067		mg/Kg-dr	1	5/14/2019 12:24:00 AM	44846
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/14/2019 12:24:00 AM	44846
Surr: 4-Bromofluorobenzene	89.8	80-120		%Rec	1	5/14/2019 12:24:00 AM	44846

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-005

Project: NEU #315

Collection Date: 5/8/2019 10:32:00 AM

Lab ID: 1905494-003

Matrix: SOIL

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	24	1.0		wt%	1	5/10/2019 4:32:00 PM	R59848
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	79		mg/Kg-dr	20	5/13/2019 4:33:59 PM	44872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	5/13/2019 8:24:49 PM	44855
Motor Oil Range Organics (MRO)	ND	65		mg/Kg-dr	1	5/13/2019 8:24:49 PM	44855
Surr: DNOP	71.3	70-130		%Rec	1	5/13/2019 8:24:49 PM	44855
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.4		mg/Kg-dr	1	5/14/2019 1:33:48 AM	44846
Surr: BFB	94.1	73.8-119		%Rec	1	5/14/2019 1:33:48 AM	44846
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.032		mg/Kg-dr	1	5/14/2019 1:33:48 AM	44846
Toluene	ND	0.064		mg/Kg-dr	1	5/14/2019 1:33:48 AM	44846
Ethylbenzene	ND	0.064		mg/Kg-dr	1	5/14/2019 1:33:48 AM	44846
Xylenes, Total	ND	0.13		mg/Kg-dr	1	5/14/2019 1:33:48 AM	44846
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/14/2019 1:33:48 AM	44846

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-105

Project: NEU #315

Collection Date: 5/8/2019 11:05:00 AM

Lab ID: 1905494-004

Matrix: SOIL

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	12	1.0		wt%	1	5/10/2019 4:32:00 PM	R59848
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	68		mg/Kg-dr	20	5/13/2019 4:46:24 PM	44872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	5/13/2019 8:49:22 PM	44855
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	5/13/2019 8:49:22 PM	44855
Surr: DNOP	73.8	70-130		%Rec	1	5/13/2019 8:49:22 PM	44855
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	5/14/2019 1:57:03 AM	44846
Surr: BFB	94.4	73.8-119		%Rec	1	5/14/2019 1:57:03 AM	44846
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	5/14/2019 1:57:03 AM	44846
Toluene	ND	0.056		mg/Kg-dr	1	5/14/2019 1:57:03 AM	44846
Ethylbenzene	ND	0.056		mg/Kg-dr	1	5/14/2019 1:57:03 AM	44846
Xylenes, Total	ND	0.11		mg/Kg-dr	1	5/14/2019 1:57:03 AM	44846
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	5/14/2019 1:57:03 AM	44846

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FB-5819

Project: NEU #315

Collection Date: 5/8/2019 12:10:00 PM

Lab ID: 1905494-005

Matrix: AQUEOUS

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/10/2019 10:58:24 PM	SL59820
Toluene	ND	1.0		µg/L	1	5/10/2019 10:58:24 PM	SL59820
Ethylbenzene	ND	1.0		µg/L	1	5/10/2019 10:58:24 PM	SL59820
Xylenes, Total	ND	1.5		µg/L	1	5/10/2019 10:58:24 PM	SL59820
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	5/10/2019 10:58:24 PM	SL59820
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/10/2019 10:58:24 PM	SL59820
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/10/2019 10:58:24 PM	SL59820
Surr: Toluene-d8	89.2	70-130		%Rec	1	5/10/2019 10:58:24 PM	SL59820

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: RB-5819

Project: NEU #315

Collection Date: 5/8/2019 12:15:00 PM

Lab ID: 1905494-006

Matrix: AQUEOUS

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/13/2019 2:42:04 PM	SL59856
Toluene	ND	1.0		µg/L	1	5/13/2019 2:42:04 PM	SL59856
Ethylbenzene	ND	1.0		µg/L	1	5/13/2019 2:42:04 PM	SL59856
Xylenes, Total	ND	1.5		µg/L	1	5/13/2019 2:42:04 PM	SL59856
Surr: 1,2-Dichloroethane-d4	85.8	70-130		%Rec	1	5/13/2019 2:42:04 PM	SL59856
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	5/13/2019 2:42:04 PM	SL59856
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	5/13/2019 2:42:04 PM	SL59856
Surr: Toluene-d8	88.6	70-130		%Rec	1	5/13/2019 2:42:04 PM	SL59856

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 1905494

Date Reported: 5/17/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: Trip Blank

Project: NEU #315

Collection Date:

Lab ID: 1905494-007

Matrix: AQUEOUS

Received Date: 5/9/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/13/2019 3:10:44 PM	SL59856
Toluene	ND	1.0		µg/L	1	5/13/2019 3:10:44 PM	SL59856
Ethylbenzene	ND	1.0		µg/L	1	5/13/2019 3:10:44 PM	SL59856
Xylenes, Total	ND	1.5		µg/L	1	5/13/2019 3:10:44 PM	SL59856
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	1	5/13/2019 3:10:44 PM	SL59856
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	5/13/2019 3:10:44 PM	SL59856
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	5/13/2019 3:10:44 PM	SL59856
Surr: Toluene-d8	89.2	70-130		%Rec	1	5/13/2019 3:10:44 PM	SL59856

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#: **1905494****17-May-19****Client:** Enduring Resources**Project:** NEU #315

Sample ID: MB-44872	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44872	RunNo: 59828								
Prep Date: 5/13/2019	Analysis Date: 5/13/2019	SeqNo: 2019065 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44872	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44872	RunNo: 59828								
Prep Date: 5/13/2019	Analysis Date: 5/13/2019	SeqNo: 2019066 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	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#: **1905494****17-May-19****Client:** Enduring Resources**Project:** NEU #315

Sample ID: LCS-44855	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44855	RunNo: 59825								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018051	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	63.9	124			
Surr: DNOP	4.2		5.000		83.2	70	130			

Sample ID: MB-44855	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44855	RunNo: 59825								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018052	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	8.7		10.00		86.6	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#: **1905494**

17-May-19

Client: Enduring Resources**Project:** NEU #315

Sample ID: MB-44846	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018468 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	930		1000		92.8	73.8	119			

Sample ID: LCS-44846	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018469 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	96.8	80.1	123			
Surr: BFB	1100		1000		107	73.8	119			

Sample ID: 1905494-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-003	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018471 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.8	29.17	0	111	69.1	142			
Surr: BFB	1200		1167		106	73.8	119			

Sample ID: 1905494-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-003	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/14/2019	SeqNo: 2018472 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	34	5.9	29.49	0	114	69.1	142	3.77	20	
Surr: BFB	1300		1179		107	73.8	119	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#: **1905494**

17-May-19

Client: Enduring Resources**Project:** NEU #315

Sample ID: MB-44846	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018511 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	0.90		1.000		90.0	80	120			

Sample ID: LCS-44846	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018512 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	89.0	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			

Sample ID: 1905494-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-004	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/14/2019	SeqNo: 2018515 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.035	1.381	0	84.1	63.9	127			
Toluene	1.2	0.069	1.381	0.01388	85.7	69.9	131			
Ethylbenzene	1.2	0.069	1.381	0	87.7	71	132			
Xylenes, Total	3.7	0.14	4.143	0.01962	87.7	71.8	131			
Surr: 4-Bromofluorobenzene	1.3		1.381		92.7	80	120			

Sample ID: 1905494-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SA-004	Batch ID: 44846	RunNo: 59831								
Prep Date: 5/10/2019	Analysis Date: 5/14/2019	SeqNo: 2018516 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.034	1.363	0	90.4	63.9	127	5.91	20	
Toluene	1.3	0.068	1.363	0.01388	93.8	69.9	131	7.65	20	
Ethylbenzene	1.3	0.068	1.363	0	94.9	71	132	6.54	20	
Xylenes, Total	3.9	0.14	4.090	0.01962	95.3	71.8	131	7.00	20	
Surr: 4-Bromofluorobenzene	1.3		1.363		96.6	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#: **1905494**

17-May-19

Client: Enduring Resources**Project:** NEU #315

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: SL59820	RunNo: 59820								
Prep Date:	Analysis Date: 5/10/2019	SeqNo: 2017855		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.9	70	130			
Toluene	19	1.0	20.00	0	94.3	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		86.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.5	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	8.8		10.00		88.0	70	130			

Sample ID: 1905494-005a ms	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: FB-5819	Batch ID: SL59820	RunNo: 59820								
Prep Date:	Analysis Date: 5/10/2019	SeqNo: 2017857		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.1	70	130			
Toluene	19	1.0	20.00	0	93.4	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.7	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.8	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	8.7		10.00		87.1	70	130			

Sample ID: 1905494-005a msd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: FB-5819	Batch ID: SL59820	RunNo: 59820								
Prep Date:	Analysis Date: 5/10/2019	SeqNo: 2017858		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.1	70	130	6.23	20	
Toluene	18	1.0	20.00	0	90.8	70	130	2.85	20	
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		103	70	130	0	0	
Surr: Toluene-d8	8.9		10.00		89.0	70	130	0	0	

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL59820	RunNo: 59820								
Prep Date:	Analysis Date: 5/10/2019	SeqNo: 2017859		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

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#: **1905494**

17-May-19

Client: Enduring Resources**Project:** NEU #315

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL59820	RunNo: 59820								
Prep Date:	Analysis Date: 5/10/2019	SeqNo: 2017859		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.0	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.0		10.00		90.2	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: SL59856	RunNo: 59856								
Prep Date:	Analysis Date: 5/13/2019	SeqNo: 2019130		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	83.7	70	130			
Toluene	18	1.0	20.00	0	89.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.8	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		90.5	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.4	70	130			
Surr: Toluene-d8	8.8		10.00		88.5	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL59856	RunNo: 59856								
Prep Date:	Analysis Date: 5/13/2019	SeqNo: 2019133		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.0	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		89.9	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.4	70	130			
Surr: Toluene-d8	8.8		10.00		88.4	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



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

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**

Work Order Number: **1905494**

RcptNo: 1

Received By: **Erin Melendrez** 5/9/2019 8:15:00 AM

Completed By: **Erin Melendrez** 5/9/2019 2:09:43 PM

Reviewed By:

LB ENM 5/9/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or ≥ 12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			
2	3.2	Good	Yes			
3	4.1	Good	Yes			



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

June 25, 2019

James McDaniel
Enduring Resources
332 Road 3100
Aztec, NM 87140
TEL:
FAX:

RE: NEU 315 H

OrderNo.: 1906782

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/14/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 24, 2019.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: EX-SW01

Project: NEU 315 H

Collection Date: 6/13/2019 10:15:00 AM

Lab ID: 1906782-001

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	3.8	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	82	62		mg/Kg-dr	20	6/20/2019 5:47:32 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	6/17/2019 10:01:51 PM	45612
Surr: BFB	105	70-130		%Rec	1	6/17/2019 10:01:51 PM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	6/19/2019 4:47:23 PM	45653
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	6/19/2019 4:47:23 PM	45653
Surr: DNOP	95.1	70-130		%Rec	1	6/19/2019 4:47:23 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	6/17/2019 10:01:51 PM	45612
Toluene	ND	0.051		mg/Kg-dr	1	6/17/2019 10:01:51 PM	45612
Ethylbenzene	ND	0.051		mg/Kg-dr	1	6/17/2019 10:01:51 PM	45612
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/17/2019 10:01:51 PM	45612
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/17/2019 10:01:51 PM	45612
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/17/2019 10:01:51 PM	45612
Surr: Dibromofluoromethane	120	70-130		%Rec	1	6/17/2019 10:01:51 PM	45612
Surr: Toluene-d8	92.2	70-130		%Rec	1	6/17/2019 10:01:51 PM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: EX-SW02

Project: NEU 315 H

Collection Date: 6/13/2019 10:25:00 AM

Lab ID: 1906782-002

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	4.9	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	80	63		mg/Kg-dr	20	6/20/2019 5:59:56 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	6/17/2019 10:30:42 PM	45612
Surr: BFB	109	70-130		%Rec	1	6/17/2019 10:30:42 PM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	6/19/2019 6:01:08 PM	45653
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	6/19/2019 6:01:08 PM	45653
Surr: DNOP	75.7	70-130		%Rec	1	6/19/2019 6:01:08 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	6/17/2019 10:30:42 PM	45612
Toluene	ND	0.051		mg/Kg-dr	1	6/17/2019 10:30:42 PM	45612
Ethylbenzene	ND	0.051		mg/Kg-dr	1	6/17/2019 10:30:42 PM	45612
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/17/2019 10:30:42 PM	45612
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	6/17/2019 10:30:42 PM	45612
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/17/2019 10:30:42 PM	45612
Surr: Dibromofluoromethane	120	70-130		%Rec	1	6/17/2019 10:30:42 PM	45612
Surr: Toluene-d8	95.3	70-130		%Rec	1	6/17/2019 10:30:42 PM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: EX-FS01

Project: NEU 315 H

Collection Date: 6/13/2019 10:30:00 AM

Lab ID: 1906782-003

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	5.8	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	63		mg/Kg-dr	20	6/20/2019 6:12:21 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	5.7	5.2		mg/Kg-dr	1	6/17/2019 10:59:32 PM	45612
Surr: BFB	112	70-130		%Rec	1	6/17/2019 10:59:32 PM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	410	11		mg/Kg-dr	1	6/19/2019 11:29:14 AM	45653
Motor Oil Range Organics (MRO)	180	53		mg/Kg-dr	1	6/19/2019 11:29:14 AM	45653
Surr: DNOP	108	70-130		%Rec	1	6/19/2019 11:29:14 AM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.026		mg/Kg-dr	1	6/17/2019 10:59:32 PM	45612
Toluene	ND	0.052		mg/Kg-dr	1	6/17/2019 10:59:32 PM	45612
Ethylbenzene	ND	0.052		mg/Kg-dr	1	6/17/2019 10:59:32 PM	45612
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/17/2019 10:59:32 PM	45612
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	6/17/2019 10:59:32 PM	45612
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	6/17/2019 10:59:32 PM	45612
Surr: Dibromofluoromethane	120	70-130		%Rec	1	6/17/2019 10:59:32 PM	45612
Surr: Toluene-d8	96.0	70-130		%Rec	1	6/17/2019 10:59:32 PM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: EX-FS02

Project: NEU 315 H

Collection Date: 6/13/2019 10:38:00 AM

Lab ID: 1906782-004

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	1.7	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	70	61		mg/Kg-dr	20	6/20/2019 7:14:25 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	6/17/2019 11:28:12 PM	45612
Surr: BFB	108	70-130		%Rec	1	6/17/2019 11:28:12 PM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg-dr	1	6/19/2019 6:26:07 PM	45653
Motor Oil Range Organics (MRO)	ND	48		mg/Kg-dr	1	6/19/2019 6:26:07 PM	45653
Surr: DNOP	90.9	70-130		%Rec	1	6/19/2019 6:26:07 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	6/17/2019 11:28:12 PM	45612
Toluene	ND	0.051		mg/Kg-dr	1	6/17/2019 11:28:12 PM	45612
Ethylbenzene	ND	0.051		mg/Kg-dr	1	6/17/2019 11:28:12 PM	45612
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/17/2019 11:28:12 PM	45612
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/17/2019 11:28:12 PM	45612
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/17/2019 11:28:12 PM	45612
Surr: Dibromofluoromethane	121	70-130		%Rec	1	6/17/2019 11:28:12 PM	45612
Surr: Toluene-d8	95.3	70-130		%Rec	1	6/17/2019 11:28:12 PM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-104R

Project: NEU 315 H

Collection Date: 6/13/2019 10:41:00 AM

Lab ID: 1906782-005

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	3.1	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	62		mg/Kg-dr	20	6/20/2019 7:26:49 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	26	5.1		mg/Kg-dr	1	6/17/2019 11:56:54 PM	45612
Surr: BFB	111	70-130		%Rec	1	6/17/2019 11:56:54 PM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	290	10		mg/Kg-dr	1	6/19/2019 6:51:01 PM	45653
Motor Oil Range Organics (MRO)	110	51		mg/Kg-dr	1	6/19/2019 6:51:01 PM	45653
Surr: DNOP	95.5	70-130		%Rec	1	6/19/2019 6:51:01 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	6/17/2019 11:56:54 PM	45612
Toluene	ND	0.051		mg/Kg-dr	1	6/17/2019 11:56:54 PM	45612
Ethylbenzene	ND	0.051		mg/Kg-dr	1	6/17/2019 11:56:54 PM	45612
Xylenes, Total	0.15	0.10		mg/Kg-dr	1	6/17/2019 11:56:54 PM	45612
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	6/17/2019 11:56:54 PM	45612
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	6/17/2019 11:56:54 PM	45612
Surr: Dibromofluoromethane	121	70-130		%Rec	1	6/17/2019 11:56:54 PM	45612
Surr: Toluene-d8	92.8	70-130		%Rec	1	6/17/2019 11:56:54 PM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-081R

Project: NEU 315 H

Collection Date: 6/13/2019 11:08:00 AM

Lab ID: 1906782-006

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	8.3	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	65		mg/Kg-dr	20	6/20/2019 7:39:14 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	6/18/2019 2:21:07 AM	45612
Surr: BFB	109	70-130		%Rec	1	6/18/2019 2:21:07 AM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	6/19/2019 7:15:41 PM	45653
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	6/19/2019 7:15:41 PM	45653
Surr: DNOP	85.4	70-130		%Rec	1	6/19/2019 7:15:41 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.027		mg/Kg-dr	1	6/18/2019 2:21:07 AM	45612
Toluene	ND	0.054		mg/Kg-dr	1	6/18/2019 2:21:07 AM	45612
Ethylbenzene	ND	0.054		mg/Kg-dr	1	6/18/2019 2:21:07 AM	45612
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 2:21:07 AM	45612
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	6/18/2019 2:21:07 AM	45612
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/18/2019 2:21:07 AM	45612
Surr: Dibromofluoromethane	119	70-130		%Rec	1	6/18/2019 2:21:07 AM	45612
Surr: Toluene-d8	97.2	70-130		%Rec	1	6/18/2019 2:21:07 AM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-078R

Project: NEU 315 H

Collection Date: 6/13/2019 11:10:00 AM

Lab ID: 1906782-007

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	2.4	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	61		mg/Kg-dr	20	6/20/2019 7:51:39 PM	45694
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	6/18/2019 2:50:02 AM	45612
Surr: BFB	110	70-130		%Rec	1	6/18/2019 2:50:02 AM	45612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg-dr	1	6/19/2019 7:40:24 PM	45653
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	6/19/2019 7:40:24 PM	45653
Surr: DNOP	91.1	70-130		%Rec	1	6/19/2019 7:40:24 PM	45653
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg-dr	1	6/18/2019 2:50:02 AM	45612
Toluene	ND	0.051		mg/Kg-dr	1	6/18/2019 2:50:02 AM	45612
Ethylbenzene	ND	0.051		mg/Kg-dr	1	6/18/2019 2:50:02 AM	45612
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/18/2019 2:50:02 AM	45612
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/18/2019 2:50:02 AM	45612
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	6/18/2019 2:50:02 AM	45612
Surr: Dibromofluoromethane	121	70-130		%Rec	1	6/18/2019 2:50:02 AM	45612
Surr: Toluene-d8	98.1	70-130		%Rec	1	6/18/2019 2:50:02 AM	45612

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-060R

Project: NEU 315 H

Collection Date: 6/13/2019 11:25:00 AM

Lab ID: 1906782-008

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	5.0	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	63		mg/Kg-dr	20	6/20/2019 8:04:03 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg-dr	1	6/19/2019 8:05:01 PM	45653
Motor Oil Range Organics (MRO)	ND	49		mg/Kg-dr	1	6/19/2019 8:05:01 PM	45653
Surr: DNOP	91.6	70-130		%Rec	1	6/19/2019 8:05:01 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg-dr	1	6/18/2019 11:26:14 AM	45617
Surr: BFB	102	73.8-119		%Rec	1	6/18/2019 11:26:14 AM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg-dr	1	6/18/2019 11:26:14 AM	45617
Toluene	ND	0.052		mg/Kg-dr	1	6/18/2019 11:26:14 AM	45617
Ethylbenzene	ND	0.052		mg/Kg-dr	1	6/18/2019 11:26:14 AM	45617
Xylenes, Total	ND	0.10		mg/Kg-dr	1	6/18/2019 11:26:14 AM	45617
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	6/18/2019 11:26:14 AM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-07R

Project: NEU 315 H

Collection Date: 6/13/2019 11:36:00 AM

Lab ID: 1906782-009

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	17	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	72		mg/Kg-dr	20	6/20/2019 8:16:27 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	920	12		mg/Kg-dr	1	6/19/2019 12:02:20 PM	45653
Motor Oil Range Organics (MRO)	300	58		mg/Kg-dr	1	6/19/2019 12:02:20 PM	45653
Surr: DNOP	105	70-130		%Rec	1	6/19/2019 12:02:20 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	55	12		mg/Kg-dr	2	6/18/2019 12:34:08 PM	45617
Surr: BFB	373	73.8-119	S	%Rec	2	6/18/2019 12:34:08 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.059		mg/Kg-dr	2	6/18/2019 12:34:08 PM	45617
Toluene	ND	0.12		mg/Kg-dr	2	6/18/2019 12:34:08 PM	45617
Ethylbenzene	ND	0.12		mg/Kg-dr	2	6/18/2019 12:34:08 PM	45617
Xylenes, Total	1.1	0.24		mg/Kg-dr	2	6/18/2019 12:34:08 PM	45617
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	2	6/18/2019 12:34:08 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-055R

Project: NEU 315 H

Collection Date: 6/13/2019 11:40:00 AM

Lab ID: 1906782-010

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	11	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	67		mg/Kg-dr	20	6/20/2019 8:28:52 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	14	10		mg/Kg-dr	1	6/19/2019 8:29:45 PM	45653
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	6/19/2019 8:29:45 PM	45653
Surr: DNOP	95.2	70-130		%Rec	1	6/19/2019 8:29:45 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	6/18/2019 3:35:11 PM	45617
Surr: BFB	106	73.8-119		%Rec	1	6/18/2019 3:35:11 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	6/18/2019 3:35:11 PM	45617
Toluene	ND	0.056		mg/Kg-dr	1	6/18/2019 3:35:11 PM	45617
Ethylbenzene	ND	0.056		mg/Kg-dr	1	6/18/2019 3:35:11 PM	45617
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 3:35:11 PM	45617
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/18/2019 3:35:11 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-007R

Project: NEU 315 H

Collection Date: 6/13/2019 12:00:00 PM

Lab ID: 1906782-011

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	9.0	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	66		mg/Kg-dr	20	6/20/2019 8:41:17 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg-dr	1	6/19/2019 8:54:23 PM	45653
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dr	1	6/19/2019 8:54:23 PM	45653
Surr: DNOP	90.7	70-130		%Rec	1	6/19/2019 8:54:23 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	6/18/2019 3:57:53 PM	45617
Surr: BFB	105	73.8-119		%Rec	1	6/18/2019 3:57:53 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	6/18/2019 3:57:53 PM	45617
Toluene	ND	0.054		mg/Kg-dr	1	6/18/2019 3:57:53 PM	45617
Ethylbenzene	ND	0.054		mg/Kg-dr	1	6/18/2019 3:57:53 PM	45617
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 3:57:53 PM	45617
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/18/2019 3:57:53 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-007-01

Project: NEU 315 H

Collection Date: 6/13/2019 12:09:00 PM

Lab ID: 1906782-012

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	12	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	69		mg/Kg-dr	20	6/20/2019 8:53:42 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	6/19/2019 9:19:01 PM	45653
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dr	1	6/19/2019 9:19:01 PM	45653
Surr: DNOP	95.0	70-130		%Rec	1	6/19/2019 9:19:01 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg-dr	1	6/18/2019 4:20:31 PM	45617
Surr: BFB	104	73.8-119		%Rec	1	6/18/2019 4:20:31 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	6/18/2019 4:20:31 PM	45617
Toluene	ND	0.057		mg/Kg-dr	1	6/18/2019 4:20:31 PM	45617
Ethylbenzene	ND	0.057		mg/Kg-dr	1	6/18/2019 4:20:31 PM	45617
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 4:20:31 PM	45617
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/18/2019 4:20:31 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-009-01

Project: NEU 315 H

Collection Date: 6/13/2019 12:15:00 PM

Lab ID: 1906782-013

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	21	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	76		mg/Kg-dr	20	6/20/2019 9:06:06 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	6/19/2019 9:43:40 PM	45653
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dr	1	6/19/2019 9:43:40 PM	45653
Surr: DNOP	91.0	70-130		%Rec	1	6/19/2019 9:43:40 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg-dr	1	6/18/2019 4:43:15 PM	45617
Surr: BFB	103	73.8-119		%Rec	1	6/18/2019 4:43:15 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.031		mg/Kg-dr	1	6/18/2019 4:43:15 PM	45617
Toluene	ND	0.062		mg/Kg-dr	1	6/18/2019 4:43:15 PM	45617
Ethylbenzene	ND	0.062		mg/Kg-dr	1	6/18/2019 4:43:15 PM	45617
Xylenes, Total	ND	0.12		mg/Kg-dr	1	6/18/2019 4:43:15 PM	45617
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	6/18/2019 4:43:15 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-011-01

Project: NEU 315 H

Collection Date: 6/13/2019 12:13:00 PM

Lab ID: 1906782-014

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	25	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	80		mg/Kg-dr	20	6/20/2019 9:43:20 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	13		mg/Kg-dr	1	6/19/2019 10:08:14 PM	45653
Motor Oil Range Organics (MRO)	ND	66		mg/Kg-dr	1	6/19/2019 10:08:14 PM	45653
Surr: DNOP	91.6	70-130		%Rec	1	6/19/2019 10:08:14 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.5		mg/Kg-dr	1	6/18/2019 5:51:15 PM	45617
Surr: BFB	103	73.8-119		%Rec	1	6/18/2019 5:51:15 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.032		mg/Kg-dr	1	6/18/2019 5:51:15 PM	45617
Toluene	ND	0.065		mg/Kg-dr	1	6/18/2019 5:51:15 PM	45617
Ethylbenzene	ND	0.065		mg/Kg-dr	1	6/18/2019 5:51:15 PM	45617
Xylenes, Total	ND	0.13		mg/Kg-dr	1	6/18/2019 5:51:15 PM	45617
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	6/18/2019 5:51:15 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-C

Project: NEU 315 H

Collection Date: 6/13/2019 12:20:00 PM

Lab ID: 1906782-015

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	12	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	68		mg/Kg-dr	20	6/20/2019 9:55:44 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	6/19/2019 10:32:43 PM	45653
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	6/19/2019 10:32:43 PM	45653
Surr: DNOP	90.9	70-130		%Rec	1	6/19/2019 10:32:43 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg-dr	1	6/18/2019 6:13:55 PM	45617
Surr: BFB	101	73.8-119		%Rec	1	6/18/2019 6:13:55 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg-dr	1	6/18/2019 6:13:55 PM	45617
Toluene	ND	0.056		mg/Kg-dr	1	6/18/2019 6:13:55 PM	45617
Ethylbenzene	ND	0.056		mg/Kg-dr	1	6/18/2019 6:13:55 PM	45617
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 6:13:55 PM	45617
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	6/18/2019 6:13:55 PM	45617

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 1906782

Date Reported: 6/25/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-F

Project: NEU 315 H

Collection Date: 6/13/2019 12:22:00 PM

Lab ID: 1906782-016

Matrix: SOIL

Received Date: 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	9.3	1.0		wt%	1	6/17/2019 2:50:00 PM	R60716
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	66		mg/Kg-dr	20	6/20/2019 10:08:09 PM	45694
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	11		mg/Kg-dr	1	6/19/2019 10:57:10 PM	45653
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	6/19/2019 10:57:10 PM	45653
Surr: DNOP	90.8	70-130		%Rec	1	6/19/2019 10:57:10 PM	45653
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg-dr	1	6/18/2019 6:36:35 PM	45617
Surr: BFB	103	73.8-119		%Rec	1	6/18/2019 6:36:35 PM	45617
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg-dr	1	6/18/2019 6:36:35 PM	45617
Toluene	ND	0.054		mg/Kg-dr	1	6/18/2019 6:36:35 PM	45617
Ethylbenzene	ND	0.054		mg/Kg-dr	1	6/18/2019 6:36:35 PM	45617
Xylenes, Total	ND	0.11		mg/Kg-dr	1	6/18/2019 6:36:35 PM	45617
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	6/18/2019 6:36:35 PM	45617

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 ReportLab Order **1906782**Date Reported: **6/25/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** FB-061319**Project:** NEU 315 H**Collection Date:** 6/13/2019 12:53:00 PM**Lab ID:** 1906782-017**Matrix:** AQUEOUS**Received Date:** 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/19/2019 8:10:12 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 8:10:12 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 8:10:12 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 8:10:12 PM	R60797
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	6/19/2019 8:10:12 PM	R60797
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/19/2019 8:10:12 PM	R60797
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/19/2019 8:10:12 PM	R60797
Surr: Toluene-d8	94.7	70-130		%Rec	1	6/19/2019 8:10:12 PM	R60797

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 ReportLab Order **1906782**Date Reported: **6/25/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** RB-061319**Project:** NEU 315 H**Collection Date:** 6/13/2019 1:00:00 PM**Lab ID:** 1906782-018**Matrix:** AQUEOUS**Received Date:** 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/19/2019 8:38:45 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 8:38:45 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 8:38:45 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 8:38:45 PM	R60797
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%Rec	1	6/19/2019 8:38:45 PM	R60797
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/19/2019 8:38:45 PM	R60797
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/19/2019 8:38:45 PM	R60797
Surr: Toluene-d8	95.4	70-130		%Rec	1	6/19/2019 8:38:45 PM	R60797

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 ReportLab Order **1906782**Date Reported: **6/25/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** TB-061319**Project:** NEU 315 H**Collection Date:** 6/13/2019 4:30:00 PM**Lab ID:** 1906782-019**Matrix:** TRIP BLANK**Received Date:** 6/14/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/19/2019 9:07:19 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 9:07:19 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 9:07:19 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 9:07:19 PM	R60797
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	6/19/2019 9:07:19 PM	R60797
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/19/2019 9:07:19 PM	R60797
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/19/2019 9:07:19 PM	R60797
Surr: Toluene-d8	92.3	70-130		%Rec	1	6/19/2019 9:07:19 PM	R60797

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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: MB-45694	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 45694	RunNo: 60817								
Prep Date: 6/19/2019	Analysis Date: 6/20/2019	SeqNo: 2058607	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-45694	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 45694	RunNo: 60817								
Prep Date: 6/19/2019	Analysis Date: 6/20/2019	SeqNo: 2058608	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: MB-45653	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 45653	RunNo: 60757								
Prep Date: 6/18/2019	Analysis Date: 6/19/2019	SeqNo: 2056491 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	9.4		10.00		94.1	70	130			

Sample ID: LCS-45653	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 45653	RunNo: 60757								
Prep Date: 6/18/2019	Analysis Date: 6/19/2019	SeqNo: 2056492 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	63.9	124			
Surr: DNOP	4.7		5.000		94.5	70	130			

Sample ID: 1906782-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: EX-SW01	Batch ID: 45653	RunNo: 60757								
Prep Date: 6/18/2019	Analysis Date: 6/19/2019	SeqNo: 2056996 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.8	48.79	5.071	70.1	57	142			
Surr: DNOP	3.7		4.879		75.2	70	130			

Sample ID: 1906782-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: EX-SW01	Batch ID: 45653	RunNo: 60805								
Prep Date: 6/18/2019	Analysis Date: 6/20/2019	SeqNo: 2058358 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	51.35	5.071	84.2	57	142	20.6	20	R
Surr: DNOP	4.6		5.135		90.6	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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: MB-45617	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055406 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	1000		1000		102	73.8	119			

Sample ID: LCS-45617	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055407 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.9	80.1	123			
Surr: BFB	1100		1000		115	73.8	119			

Sample ID: 1906782-008AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-060R	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055409 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.2	26.03	0	108	69.1	142			
Surr: BFB	1200		1041		114	73.8	119			

Sample ID: 1906782-008AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-060R	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055410 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.2	25.95	0	113	69.1	142	3.54	20	
Surr: BFB	1200		1038		118	73.8	119	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#: **1906782**

25-Jun-19

Client: Enduring Resources**Project:** NEU 315 H

Sample ID: MB-45617	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055439 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	0.97		1.000		97.4	80	120			

Sample ID: LCS-45617	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055440 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: 1906782-009AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: GR-07R	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055444 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.060	1.198	0	112	63.9	127			
Toluene	1.4	0.12	1.198	0	115	69.9	131			
Ethylbenzene	1.5	0.12	1.198	0	125	71	132			
Xylenes, Total	5.2	0.24	3.593	1.051	116	71.8	131			
Surr: 4-Bromofluorobenzene	2.8		2.395		116	80	120			

Sample ID: 1906782-009AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: GR-07R	Batch ID: 45617	RunNo: 60729								
Prep Date: 6/17/2019	Analysis Date: 6/18/2019	SeqNo: 2055445 Units: mg/Kg-dry								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.060	1.205	0	108	63.9	127	2.88	20	
Toluene	1.4	0.12	1.205	0	114	69.9	131	0.715	20	
Ethylbenzene	1.5	0.12	1.205	0	127	71	132	2.11	20	
Xylenes, Total	5.5	0.24	3.614	1.051	122	71.8	131	4.91	20	
Surr: 4-Bromofluorobenzene	2.9		2.409		120	80	120	0	0	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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: lcs-45612	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 45612	RunNo: 60711								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054545			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	70	130			
Toluene	0.95	0.050	1.000	0	95.2	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.5	70	130			
Xylenes, Total	3.0	0.10	3.000	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130			
Surr: Dibromofluoromethane	0.59		0.5000		118	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

Sample ID: mb-45612	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 45612	RunNo: 60711								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054547			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	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.59		0.5000		118	70	130			
Surr: Toluene-d8	0.47		0.5000		94.6	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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R60797	RunNo: 60797								
Prep Date:	Analysis Date: 6/19/2019	SeqNo: 2058061	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	70	130			
Toluene	18	1.0	20.00	0	87.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R60797	RunNo: 60797								
Prep Date:	Analysis Date: 6/19/2019	SeqNo: 2058075	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.6		10.00		96.0	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#: **1906782****25-Jun-19****Client:** Enduring Resources**Project:** NEU 315 H

Sample ID: lcs-45612	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 45612	RunNo: 60711								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054591		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	95.3	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: mb-45612	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 45612	RunNo: 60711								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054592		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	550		500.0		111	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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**Work Order Number: **1906782**

RcptNo: 1

Received By: **Desiree Dominguez**

6/14/2019 7:55:00 AM

Completed By: **Leah Baca**

6/14/2019 11:21:30 AM

Reviewed By:

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes			
2	1.9	Good	Yes			



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

July 31, 2019

James McDaniel
Enduring Resources
200 Energy Court
Farmington, NM 87401
TEL:
FAX

RE: NEU 315H

OrderNo.: 1907B35

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 23 sample(s) on 7/23/2019 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-104 RR

Project: NEU 315H

Collection Date: 7/19/2019 10:25:00 AM

Lab ID: 1907B35-001

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 6:55:52 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/25/2019 12:18:08 PM	46377
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/25/2019 12:18:08 PM	46377
Surr: DNOP	110	70-130		%Rec	1	7/25/2019 12:18:08 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 9:35:06 AM	46353
Surr: BFB	108	73.8-119		%Rec	1	7/25/2019 9:35:06 AM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 9:35:06 AM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 9:35:06 AM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 9:35:06 AM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 9:35:06 AM	46353
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	7/25/2019 9:35:06 AM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-104-1RR

Project: NEU 315H

Collection Date: 7/19/2019 10:27:00 AM

Lab ID: 1907B35-002

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 7:08:17 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/25/2019 12:40:11 PM	46377
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2019 12:40:11 PM	46377
Surr: DNOP	84.6	70-130		%Rec	1	7/25/2019 12:40:11 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 10:42:59 AM	46353
Surr: BFB	110	73.8-119		%Rec	1	7/25/2019 10:42:59 AM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 10:42:59 AM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 10:42:59 AM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 10:42:59 AM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 10:42:59 AM	46353
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	7/25/2019 10:42:59 AM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FS01R

Project: NEU 315H

Collection Date: 7/19/2019 10:30:00 AM

Lab ID: 1907B35-003

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 7:45:31 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	460	9.6		mg/Kg	1	7/27/2019 3:31:15 AM	46377
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	7/27/2019 3:31:15 AM	46377
Surr: DNOP	124	70-130		%Rec	1	7/27/2019 3:31:15 AM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 11:51:03 AM	46353
Surr: BFB	107	73.8-119		%Rec	1	7/25/2019 11:51:03 AM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/25/2019 11:51:03 AM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 11:51:03 AM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 11:51:03 AM	46353
Xylenes, Total	ND	0.097		mg/Kg	1	7/25/2019 11:51:03 AM	46353
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	7/25/2019 11:51:03 AM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-106

Project: NEU 315H

Collection Date: 7/19/2019 10:40:00 AM

Lab ID: 1907B35-004

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 7:57:55 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/27/2019 4:15:50 AM	46377
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/27/2019 4:15:50 AM	46377
Surr: DNOP	110	70-130		%Rec	1	7/27/2019 4:15:50 AM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 12:13:48 PM	46353
Surr: BFB	110	73.8-119		%Rec	1	7/25/2019 12:13:48 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 12:13:48 PM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 12:13:48 PM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 12:13:48 PM	46353
Xylenes, Total	ND	0.098		mg/Kg	1	7/25/2019 12:13:48 PM	46353
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	7/25/2019 12:13:48 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-106-1

Project: NEU 315H

Collection Date: 7/19/2019 10:45:00 AM

Lab ID: 1907B35-005

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 8:10:20 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	300	9.6		mg/Kg	1	7/25/2019 7:36:13 PM	46377
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	7/25/2019 7:36:13 PM	46377
Surr: DNOP	110	70-130		%Rec	1	7/25/2019 7:36:13 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	54	5.0		mg/Kg	1	7/25/2019 12:36:32 PM	46353
Surr: BFB	519	73.8-119	S	%Rec	1	7/25/2019 12:36:32 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 12:36:32 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 12:36:32 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 12:36:32 PM	46353
Xylenes, Total	0.18	0.099		mg/Kg	1	7/25/2019 12:36:32 PM	46353
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/25/2019 12:36:32 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-106-3

Project: NEU 315H

Collection Date: 7/19/2019 10:47:00 AM

Lab ID: 1907B35-006

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 8:22:44 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/25/2019 7:58:31 PM	46377
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2019 7:58:31 PM	46377
Surr: DNOP	98.6	70-130		%Rec	1	7/25/2019 7:58:31 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 12:59:17 PM	46353
Surr: BFB	117	73.8-119		%Rec	1	7/25/2019 12:59:17 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 12:59:17 PM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 12:59:17 PM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 12:59:17 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 12:59:17 PM	46353
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	7/25/2019 12:59:17 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-107

Project: NEU 315H

Collection Date: 7/19/2019 11:00:00 AM

Lab ID: 1907B35-007

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 8:35:09 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2019 8:20:40 PM	46377
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2019 8:20:40 PM	46377
Surr: DNOP	99.3	70-130		%Rec	1	7/25/2019 8:20:40 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 1:22:03 PM	46353
Surr: BFB	106	73.8-119		%Rec	1	7/25/2019 1:22:03 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 1:22:03 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 1:22:03 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 1:22:03 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 1:22:03 PM	46353
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	7/25/2019 1:22:03 PM	46353

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

Analytical Report

Lab Order 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-107-1

Project: NEU 315H

Collection Date: 7/19/2019 10:58:00 AM

Lab ID: 1907B35-008

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 9:12:22 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/25/2019 8:42:56 PM	46377
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2019 8:42:56 PM	46377
Surr: DNOP	96.5	70-130		%Rec	1	7/25/2019 8:42:56 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 1:44:47 PM	46353
Surr: BFB	110	73.8-119		%Rec	1	7/25/2019 1:44:47 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 1:44:47 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 1:44:47 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 1:44:47 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 1:44:47 PM	46353
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	7/25/2019 1:44:47 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-108

Project: NEU 315H

Collection Date: 7/19/2019 11:17:00 AM

Lab ID: 1907B35-009

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/25/2019 9:24:46 PM	46399
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/25/2019 9:05:13 PM	46377
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/25/2019 9:05:13 PM	46377
Surr: DNOP	96.5	70-130		%Rec	1	7/25/2019 9:05:13 PM	46377
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 2:07:38 PM	46353
Surr: BFB	110	73.8-119		%Rec	1	7/25/2019 2:07:38 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 2:07:38 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 2:07:38 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 2:07:38 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 2:07:38 PM	46353
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	7/25/2019 2:07:38 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-108-1

Project: NEU 315H

Collection Date: 7/19/2019 11:30:00 AM

Lab ID: 1907B35-010

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	7/26/2019 11:43:21 AM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	17	9.1		mg/Kg	1	7/26/2019 12:52:55 PM	46394
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/26/2019 12:52:55 PM	46394
Surr: DNOP	98.9	70-130		%Rec	1	7/26/2019 12:52:55 PM	46394
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 2:30:29 PM	46353
Surr: BFB	109	73.8-119		%Rec	1	7/25/2019 2:30:29 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 2:30:29 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 2:30:29 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 2:30:29 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 2:30:29 PM	46353
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	7/25/2019 2:30:29 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-109

Project: NEU 315H

Collection Date: 7/19/2019 11:31:00 AM

Lab ID: 1907B35-011

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 11:55:45 AM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/26/2019 1:15:01 PM	46394
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/26/2019 1:15:01 PM	46394
Surr: DNOP	101	70-130		%Rec	1	7/26/2019 1:15:01 PM	46394
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 6:41:31 PM	46353
Surr: BFB	105	73.8-119		%Rec	1	7/25/2019 6:41:31 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 6:41:31 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 6:41:31 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 6:41:31 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 6:41:31 PM	46353
Surr: 4-Bromofluorobenzene	83.0	80-120		%Rec	1	7/25/2019 6:41:31 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-109-1

Project: NEU 315H

Collection Date: 7/19/2019 11:33:00 AM

Lab ID: 1907B35-012

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	7/26/2019 12:57:48 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/26/2019 1:37:15 PM	46394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/26/2019 1:37:15 PM	46394
Surr: DNOP	101	70-130		%Rec	1	7/26/2019 1:37:15 PM	46394
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 7:04:17 PM	46353
Surr: BFB	108	73.8-119		%Rec	1	7/25/2019 7:04:17 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 7:04:17 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 7:04:17 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 7:04:17 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 7:04:17 PM	46353
Surr: 4-Bromofluorobenzene	88.6	80-120		%Rec	1	7/25/2019 7:04:17 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-110

Project: NEU 315H

Collection Date: 7/19/2019 11:50:00 AM

Lab ID: 1907B35-013

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 1:35:02 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/26/2019 1:59:21 PM	46394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/26/2019 1:59:21 PM	46394
Surr: DNOP	102	70-130		%Rec	1	7/26/2019 1:59:21 PM	46394
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 7:27:01 PM	46353
Surr: BFB	108	73.8-119		%Rec	1	7/25/2019 7:27:01 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 7:27:01 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 7:27:01 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 7:27:01 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 7:27:01 PM	46353
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	7/25/2019 7:27:01 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-110-1

Project: NEU 315H

Collection Date: 7/19/2019 11:51:00 AM

Lab ID: 1907B35-014

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	7/26/2019 1:47:26 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/26/2019 3:36:55 PM	46401
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/26/2019 3:36:55 PM	46401
Surr: DNOP	107	70-130		%Rec	1	7/26/2019 3:36:55 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 7:49:44 PM	46353
Surr: BFB	104	73.8-119		%Rec	1	7/25/2019 7:49:44 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 7:49:44 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 7:49:44 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 7:49:44 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 7:49:44 PM	46353
Surr: 4-Bromofluorobenzene	86.1	80-120		%Rec	1	7/25/2019 7:49:44 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA111

Project: NEU 315H

Collection Date: 7/19/2019 12:03:00 PM

Lab ID: 1907B35-015

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 1:59:50 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/26/2019 4:43:42 PM	46401
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/26/2019 4:43:42 PM	46401
Surr: DNOP	103	70-130		%Rec	1	7/26/2019 4:43:42 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 8:12:28 PM	46353
Surr: BFB	105	73.8-119		%Rec	1	7/25/2019 8:12:28 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 8:12:28 PM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 8:12:28 PM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 8:12:28 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 8:12:28 PM	46353
Surr: 4-Bromofluorobenzene	87.9	80-120		%Rec	1	7/25/2019 8:12:28 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-111-1

Project: NEU 315H

Collection Date: 7/19/2019 11:53:00 AM

Lab ID: 1907B35-016

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 2:12:14 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/26/2019 5:05:52 PM	46401
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/26/2019 5:05:52 PM	46401
Surr: DNOP	102	70-130		%Rec	1	7/26/2019 5:05:52 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 8:35:09 PM	46353
Surr: BFB	106	73.8-119		%Rec	1	7/25/2019 8:35:09 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 8:35:09 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 8:35:09 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 8:35:09 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 8:35:09 PM	46353
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	7/25/2019 8:35:09 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-C

Project: NEU 315H

Collection Date: 7/19/2019 11:53:00 AM

Lab ID: 1907B35-017

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 2:24:38 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/26/2019 5:28:28 PM	46401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/26/2019 5:28:28 PM	46401
Surr: DNOP	95.3	70-130		%Rec	1	7/26/2019 5:28:28 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 8:57:50 PM	46353
Surr: BFB	106	73.8-119		%Rec	1	7/25/2019 8:57:50 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/25/2019 8:57:50 PM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 8:57:50 PM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 8:57:50 PM	46353
Xylenes, Total	ND	0.098		mg/Kg	1	7/25/2019 8:57:50 PM	46353
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	7/25/2019 8:57:50 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-G

Project: NEU 315H

Collection Date: 7/19/2019 12:03:00 PM

Lab ID: 1907B35-018

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 3:01:52 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/26/2019 5:50:51 PM	46401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/26/2019 5:50:51 PM	46401
Surr: DNOP	108	70-130		%Rec	1	7/26/2019 5:50:51 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 9:20:31 PM	46353
Surr: BFB	106	73.8-119		%Rec	1	7/25/2019 9:20:31 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 9:20:31 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 9:20:31 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 9:20:31 PM	46353
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2019 9:20:31 PM	46353
Surr: 4-Bromofluorobenzene	88.6	80-120		%Rec	1	7/25/2019 9:20:31 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-003-1

Project: NEU 315H

Collection Date: 7/19/2019 12:11:00 PM

Lab ID: 1907B35-019

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/26/2019 3:14:17 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/26/2019 6:13:15 PM	46401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/26/2019 6:13:15 PM	46401
Surr: DNOP	92.9	70-130		%Rec	1	7/26/2019 6:13:15 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2019 9:43:12 PM	46353
Surr: BFB	111	73.8-119		%Rec	1	7/25/2019 9:43:12 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 9:43:12 PM	46353
Toluene	ND	0.049		mg/Kg	1	7/25/2019 9:43:12 PM	46353
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2019 9:43:12 PM	46353
Xylenes, Total	ND	0.098		mg/Kg	1	7/25/2019 9:43:12 PM	46353
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	7/25/2019 9:43:12 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-005-1

Project: NEU 315H

Collection Date: 7/19/2019 12:13:00 PM

Lab ID: 1907B35-020

Matrix: SOIL

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	7/26/2019 3:26:42 PM	46414
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	7/26/2019 6:35:41 PM	46401
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/26/2019 6:35:41 PM	46401
Surr: DNOP	98.3	70-130		%Rec	1	7/26/2019 6:35:41 PM	46401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2019 10:06:00 PM	46353
Surr: BFB	111	73.8-119		%Rec	1	7/25/2019 10:06:00 PM	46353
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2019 10:06:00 PM	46353
Toluene	ND	0.050		mg/Kg	1	7/25/2019 10:06:00 PM	46353
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2019 10:06:00 PM	46353
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2019 10:06:00 PM	46353
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	7/25/2019 10:06:00 PM	46353

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: RB-71919

Project: NEU 315H

Collection Date: 7/19/2019 12:20:00 PM

Lab ID: 1907B35-021

Matrix: AQUEOUS

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/24/2019 4:53:00 PM	R61627
Toluene	ND	1.0		µg/L	1	7/24/2019 4:53:00 PM	R61627
Ethylbenzene	ND	1.0		µg/L	1	7/24/2019 4:53:00 PM	R61627
Xylenes, Total	ND	1.5		µg/L	1	7/24/2019 4:53:00 PM	R61627
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	7/24/2019 4:53:00 PM	R61627
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	7/24/2019 4:53:00 PM	R61627
Surr: Dibromofluoromethane	95.7	70-130		%Rec	1	7/24/2019 4:53:00 PM	R61627
Surr: Toluene-d8	98.5	70-130		%Rec	1	7/24/2019 4:53:00 PM	R61627

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FB-71919

Project: NEU 315H

Collection Date: 7/19/2019 12:25:00 PM

Lab ID: 1907B35-022

Matrix: AQUEOUS

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/24/2019 5:18:00 PM	R61627
Toluene	ND	1.0		µg/L	1	7/24/2019 5:18:00 PM	R61627
Ethylbenzene	ND	1.0		µg/L	1	7/24/2019 5:18:00 PM	R61627
Xylenes, Total	ND	1.5		µg/L	1	7/24/2019 5:18:00 PM	R61627
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	7/24/2019 5:18:00 PM	R61627
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	7/24/2019 5:18:00 PM	R61627
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	7/24/2019 5:18:00 PM	R61627
Surr: Toluene-d8	97.7	70-130		%Rec	1	7/24/2019 5:18:00 PM	R61627

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 1907B35

Date Reported: 7/31/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: Trip Blank

Project: NEU 315H

Collection Date:

Lab ID: 1907B35-023

Matrix: AQUEOUS

Received Date: 7/23/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/24/2019 5:42:00 PM	R61627
Toluene	ND	1.0		µg/L	1	7/24/2019 5:42:00 PM	R61627
Ethylbenzene	ND	1.0		µg/L	1	7/24/2019 5:42:00 PM	R61627
Xylenes, Total	ND	1.5		µg/L	1	7/24/2019 5:42:00 PM	R61627
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	7/24/2019 5:42:00 PM	R61627
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	7/24/2019 5:42:00 PM	R61627
Surr: Dibromofluoromethane	94.3	70-130		%Rec	1	7/24/2019 5:42:00 PM	R61627
Surr: Toluene-d8	97.5	70-130		%Rec	1	7/24/2019 5:42:00 PM	R61627

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#: 1907B35

31-Jul-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: MB-46399	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46399	RunNo: 61687								
Prep Date: 7/25/2019	Analysis Date: 7/25/2019	SeqNo: 2091060 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46399	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46399	RunNo: 61687								
Prep Date: 7/25/2019	Analysis Date: 7/25/2019	SeqNo: 2091061 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Sample ID: MB-46414	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46414	RunNo: 61674								
Prep Date: 7/26/2019	Analysis Date: 7/26/2019	SeqNo: 2091616 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46414	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46414	RunNo: 61674								
Prep Date: 7/26/2019	Analysis Date: 7/26/2019	SeqNo: 2091617 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	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#: 1907B35

31-Jul-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: LCS-46344	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46344	RunNo: 61604								
Prep Date: 7/23/2019	Analysis Date: 7/25/2019	SeqNo: 2089021 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.8	70	130			

Sample ID: MB-46344	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46344	RunNo: 61604								
Prep Date: 7/23/2019	Analysis Date: 7/25/2019	SeqNo: 2089025 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		111	70	130			

Sample ID: LCS-46377	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46377	RunNo: 61651								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2089810 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	63.9	124			
Surr: DNOP	4.3		5.000		85.5	70	130			

Sample ID: MB-46377	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46377	RunNo: 61651								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2089811 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	8.8		10.00		87.9	70	130			

Sample ID: LCS-46394	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46394	RunNo: 61668								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091169 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	98.7	63.9	124			
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID: MB-46394	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46394	RunNo: 61668								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	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#: **1907B35****31-Jul-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-46394	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46394	RunNo: 61668								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	70	130			

Sample ID: 1907B35-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-110-1	Batch ID: 46401	RunNo: 61669								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091384 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.5	47.53	0	101	57	142			
Surr: DNOP	4.5		4.753		94.8	70	130			

Sample ID: 1907B35-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-110-1	Batch ID: 46401	RunNo: 61669								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091385 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.80	0	99.8	57	142	0.715	20	
Surr: DNOP	4.5		4.780		93.2	70	130	0	0	

Sample ID: LCS-46401	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46401	RunNo: 61669								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091395 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	63.9	124			
Surr: DNOP	4.3		5.000		85.9	70	130			

Sample ID: MB-46401	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46401	RunNo: 61669								
Prep Date: 7/25/2019	Analysis Date: 7/26/2019	SeqNo: 2091396 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	10		10.00		103	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#: 1907B35

31-Jul-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: MB-46353	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090250 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	1100		1000		109	73.8	119			

Sample ID: LCS-46353	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090251 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	92.2	80.1	123			
Surr: BFB	1200		1000		122	73.8	119			S

Sample ID: 1907B35-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-104 RR	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090253 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.80	0	113	69.1	142			
Surr: BFB	1200		992.1		124	73.8	119			S

Sample ID: 1907B35-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SA-104 RR	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090254 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.78	0	113	69.1	142	0.488	20	
Surr: BFB	1200		991.1		125	73.8	119	0	0	S

Sample ID: MB-46369	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 46369	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090275 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	73.8	119			

Sample ID: LCS-46369	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 46369	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090276 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		124	73.8	119			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#: **1907B35****31-Jul-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-46353	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090296 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	0.92		1.000		91.8	80	120			

Sample ID: LCS-46353	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090297 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	91.3	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			

Sample ID: 1907B35-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-104-1RR	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090300 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.2	63.9	127			
Toluene	1.0	0.050	1.000	0.004386	99.4	69.9	131			
Ethylbenzene	0.98	0.050	1.000	0	98.4	71	132			
Xylenes, Total	3.0	0.10	3.000	0	98.4	71.8	131			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	80	120			

Sample ID: 1907B35-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-104-1RR	Batch ID: 46353	RunNo: 61664								
Prep Date: 7/24/2019	Analysis Date: 7/25/2019	SeqNo: 2090301 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9930	0	100	63.9	127	0.594	20	
Toluene	1.0	0.050	0.9930	0.004386	102	69.9	131	1.65	20	
Ethylbenzene	1.0	0.050	0.9930	0	101	71	132	2.26	20	
Xylenes, Total	3.0	0.099	2.979	0	101	71.8	131	1.81	20	
Surr: 4-Bromofluorobenzene	0.95		0.9930		96.1	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#: **1907B35****31-Jul-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: R61627		RunNo: 61627							
Prep Date:	Analysis Date: 7/24/2019		SeqNo: 2088804		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.1	70	130			
Toluene	20	1.0	20.00	0	98.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.4	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID: rb	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: R61627		RunNo: 61627							
Prep Date:	Analysis Date: 7/24/2019		SeqNo: 2088805		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**Work Order Number: **1907B35**RcptNo: **1**Received By: **Desiree Dominguez** 7/23/2019 8:00:00 AMCompleted By: **Leah Baca** 7/23/2019 8:34:52 AMReviewed By: **DAD 7/23/19**

DD
Leah Baca

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Y6 7/23/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Daniel Burns Date: 7/23/19
By Whom: Leah Baca Via: ☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: High receiving temp
Client Instructions: NO response continued with analysis

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			
2	6.6	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

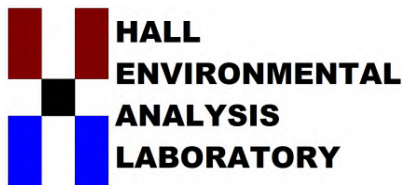
4901 Hawkins NE - Albuquerque, NM 87109

Fax 505-345-4107

Analysis Request

Chain-of-Custody Record				Turn-Around Time:	
Client:		Enduring Resources		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
James McDaniel		Project Name:			
Mailing Address:		NEU #315H			
200 Energy Court		Project #:			
Farmington, NM 87401		Project Manager:			
Phone #:		Daniel Burns			
505-636-9731		Sampler:			
email or Fax#:		E. Carroll/ M. Mrdjenovich			
imcdaniel@enduringresources.com		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
QA/QC Package:		# of Coolers: (2) 6.8 - 0.2 = 6.6°C			
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Cooler Temp (including CF): 2.7 - 0.2 = 2.5°C			
Accreditation: <input type="checkbox"/> Az Compliance		Container Type and #		Preservative Type	HEAL No.
<input type="checkbox"/> NELAC <input type="checkbox"/> Other		1-4 oz jar		cool	1907B35
<input checked="" type="checkbox"/> EDD (Type) PDF					
Date	Time	Matrix	Sample Name		
7/19/19	1150	S	SA-110		-013
	1151		SB-111-1 SB-110-1		-014
	1203		SA-111		-015
	1153		SB-112-1 SB-111-1		-016
	1153		SB-C		-017
	1203		SA-G		-018
	1211		SB003-1		-019
	1213	✓	SB005-1	↓	-020
	1220	W	RB-71919	HCl	-021
	1225	↓	FB-71919	↓	-022
	1230	✓	Trip Blank F		-023
Relinquished by:		Relinquished by:		Received by:	
Date:	Time:	Date:	Time:	Date:	Time:
7/19/19	1513	Edo Carroll		Musta Waet	7/19/19 1513
Date:	Time:	Date:	Time:	Date:	Time:
7/22/19	1800	Musta Waet		Courier	7/23/19 8:00

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: www.hallenvironmental.com

August 09, 2019

James McDaniel
Enduring Resources
332 Road 3100
Aztec, NM 87140
TEL:
FAX

RE: NEU 315H

OrderNo.: 1908147

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/3/2019 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: EX-FSO1RR

Project: NEU 315H

Collection Date: 8/2/2019 1:35:00 PM

Lab ID: 1908147-001

Matrix: MEOH (SOIL)

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: CJM
Percent Moisture	17	1.0		wt%	1	8/6/2019	R61938
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	71		mg/Kg-dr	20	8/6/2019 6:02:12 PM	46621
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg-dr	1	8/6/2019 5:06:43 PM	G61949
Surr: BFB	95.1	70-130		%Rec	1	8/6/2019 5:06:43 PM	G61949
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	8/7/2019 9:21:59 AM	46614
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	8/7/2019 9:21:59 AM	46614
Surr: DNOP	95.2	70-130		%Rec	1	8/7/2019 9:21:59 AM	46614
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.020		mg/Kg-dr	1	8/6/2019 5:06:43 PM	SS61949
Toluene	ND	0.039		mg/Kg-dr	1	8/6/2019 5:06:43 PM	SS61949
Ethylbenzene	ND	0.039		mg/Kg-dr	1	8/6/2019 5:06:43 PM	SS61949
Xylenes, Total	ND	0.079		mg/Kg-dr	1	8/6/2019 5:06:43 PM	SS61949
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	8/6/2019 5:06:43 PM	SS61949
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	8/6/2019 5:06:43 PM	SS61949
Surr: Dibromofluoromethane	103	70-130		%Rec	1	8/6/2019 5:06:43 PM	SS61949
Surr: Toluene-d8	96.1	70-130		%Rec	1	8/6/2019 5:06:43 PM	SS61949

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

Analytical Report

Lab Order 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-106 R

Project: NEU 315H

Collection Date: 8/2/2019 1:30:00 PM

Lab ID: 1908147-002

Matrix: MEOH (SOIL)

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: CJM
Percent Moisture	13	1.0		wt%	1	8/6/2019	R61938
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	69		mg/Kg-dr	20	8/6/2019 6:14:36 PM	46621
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dr	1	8/6/2019 6:32:58 PM	G61949
Surr: BFB	93.1	70-130		%Rec	1	8/6/2019 6:32:58 PM	G61949
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	8/7/2019 9:44:15 AM	46614
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dr	1	8/7/2019 9:44:15 AM	46614
Surr: DNOP	96.2	70-130		%Rec	1	8/7/2019 9:44:15 AM	46614
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg-dr	1	8/6/2019 6:32:58 PM	SS61949
Toluene	ND	0.050		mg/Kg-dr	1	8/6/2019 6:32:58 PM	SS61949
Ethylbenzene	ND	0.050		mg/Kg-dr	1	8/6/2019 6:32:58 PM	SS61949
Xylenes, Total	ND	0.099		mg/Kg-dr	1	8/6/2019 6:32:58 PM	SS61949
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	8/6/2019 6:32:58 PM	SS61949
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	8/6/2019 6:32:58 PM	SS61949
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	8/6/2019 6:32:58 PM	SS61949
Surr: Toluene-d8	95.7	70-130		%Rec	1	8/6/2019 6:32:58 PM	SS61949

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

Analytical Report

Lab Order 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SA-H

Project: NEU 315H

Collection Date: 8/2/2019 1:32:00 PM

Lab ID: 1908147-003

Matrix: MEOH (SOIL)

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: CJM
Percent Moisture	13	1.0		wt%	1	8/6/2019	R61938
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	68		mg/Kg-dr	20	8/6/2019 6:27:00 PM	46621
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg-dr	1	8/6/2019 7:59:00 PM	G61949
Surr: BFB	94.9	70-130		%Rec	1	8/6/2019 7:59:00 PM	G61949
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	8/7/2019 9:19:56 AM	46614
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dr	1	8/7/2019 9:19:56 AM	46614
Surr: DNOP	96.5	70-130		%Rec	1	8/7/2019 9:19:56 AM	46614
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg-dr	1	8/6/2019 7:59:00 PM	SS61949
Toluene	ND	0.051		mg/Kg-dr	1	8/6/2019 7:59:00 PM	SS61949
Ethylbenzene	ND	0.051		mg/Kg-dr	1	8/6/2019 7:59:00 PM	SS61949
Xylenes, Total	ND	0.10		mg/Kg-dr	1	8/6/2019 7:59:00 PM	SS61949
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec	1	8/6/2019 7:59:00 PM	SS61949
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	8/6/2019 7:59:00 PM	SS61949
Surr: Dibromofluoromethane	91.0	70-130		%Rec	1	8/6/2019 7:59:00 PM	SS61949
Surr: Toluene-d8	92.6	70-130		%Rec	1	8/6/2019 7:59:00 PM	SS61949

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

Analytical Report

Lab Order 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: SB-106-01R

Project: NEU 315H

Collection Date: 8/2/2019 1:25:00 PM

Lab ID: 1908147-004

Matrix: MEOH (SOIL)

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: CCM
Percent Moisture	13	1.0		wt%	1	8/6/2019	R61938
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	68		mg/Kg-dr	20	8/6/2019 6:39:25 PM	46621
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dr	1	8/6/2019 8:27:43 PM	G61949
Surr: BFB	93.4	70-130		%Rec	1	8/6/2019 8:27:43 PM	G61949
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	11		mg/Kg-dr	1	8/7/2019 9:44:10 AM	46614
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dr	1	8/7/2019 9:44:10 AM	46614
Surr: DNOP	92.2	70-130		%Rec	1	8/7/2019 9:44:10 AM	46614
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg-dr	1	8/6/2019 8:27:43 PM	SS61949
Toluene	ND	0.050		mg/Kg-dr	1	8/6/2019 8:27:43 PM	SS61949
Ethylbenzene	ND	0.050		mg/Kg-dr	1	8/6/2019 8:27:43 PM	SS61949
Xylenes, Total	ND	0.099		mg/Kg-dr	1	8/6/2019 8:27:43 PM	SS61949
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	8/6/2019 8:27:43 PM	SS61949
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	8/6/2019 8:27:43 PM	SS61949
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	8/6/2019 8:27:43 PM	SS61949
Surr: Toluene-d8	95.7	70-130		%Rec	1	8/6/2019 8:27:43 PM	SS61949

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 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-07RR

Project: NEU 315H

Collection Date: 8/2/2019 1:33:00 PM

Lab ID: 1908147-005

Matrix: MEOH (SOIL)

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: CCM
Percent Moisture	16	1.0		wt%	1	8/6/2019	R61938
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	71		mg/Kg-dr	20	8/6/2019 6:51:49 PM	46621
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	77	4.7		mg/Kg-dr	1	8/6/2019 8:56:25 PM	G61949
Surr: BFB	94.1	70-130		%Rec	1	8/6/2019 8:56:25 PM	G61949
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1900	120		mg/Kg-dr	10	8/7/2019 8:55:34 AM	46614
Motor Oil Range Organics (MRO)	650	580		mg/Kg-dr	10	8/7/2019 8:55:34 AM	46614
Surr: DNOP	0	70-130	S	%Rec	10	8/7/2019 8:55:34 AM	46614
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg-dr	1	8/6/2019 8:56:25 PM	SS61949
Toluene	ND	0.047		mg/Kg-dr	1	8/6/2019 8:56:25 PM	SS61949
Ethylbenzene	ND	0.047		mg/Kg-dr	1	8/6/2019 8:56:25 PM	SS61949
Xylenes, Total	0.13	0.094		mg/Kg-dr	1	8/6/2019 8:56:25 PM	SS61949
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	8/6/2019 8:56:25 PM	SS61949
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	8/6/2019 8:56:25 PM	SS61949
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	8/6/2019 8:56:25 PM	SS61949
Surr: Toluene-d8	90.1	70-130		%Rec	1	8/6/2019 8:56:25 PM	SS61949

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 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: RB-080219

Project: NEU 315H

Collection Date: 8/2/2019 2:03:00 PM

Lab ID: 1908147-006

Matrix: AQUEOUS

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: CCM
Benzene	ND	1.0		µg/L	1	8/6/2019 5:09:00 PM	SL61932
Toluene	ND	1.0		µg/L	1	8/6/2019 5:09:00 PM	SL61932
Ethylbenzene	ND	1.0		µg/L	1	8/6/2019 5:09:00 PM	SL61932
Xylenes, Total	ND	1.5		µg/L	1	8/6/2019 5:09:00 PM	SL61932
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%Rec	1	8/6/2019 5:09:00 PM	SL61932
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	8/6/2019 5:09:00 PM	SL61932
Surr: Dibromofluoromethane	92.7	70-130		%Rec	1	8/6/2019 5:09:00 PM	SL61932
Surr: Toluene-d8	91.9	70-130		%Rec	1	8/6/2019 5:09:00 PM	SL61932

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 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FB-080219

Project: NEU 315H

Collection Date: 8/2/2019 1:55:00 PM

Lab ID: 1908147-007

Matrix: AQUEOUS

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: CCM
Benzene	ND	1.0		µg/L	1	8/6/2019 5:34:00 PM	SL61932
Toluene	ND	1.0		µg/L	1	8/6/2019 5:34:00 PM	SL61932
Ethylbenzene	ND	1.0		µg/L	1	8/6/2019 5:34:00 PM	SL61932
Xylenes, Total	ND	1.5		µg/L	1	8/6/2019 5:34:00 PM	SL61932
Surr: 1,2-Dichloroethane-d4	90.3	70-130		%Rec	1	8/6/2019 5:34:00 PM	SL61932
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	8/6/2019 5:34:00 PM	SL61932
Surr: Dibromofluoromethane	92.3	70-130		%Rec	1	8/6/2019 5:34:00 PM	SL61932
Surr: Toluene-d8	92.9	70-130		%Rec	1	8/6/2019 5:34:00 PM	SL61932

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 1908147

Date Reported: 8/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: TB-080219

Project: NEU 315H

Collection Date:

Lab ID: 1908147-008

Matrix: AQUEOUS

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: CCM
Benzene	ND	1.0		µg/L	1	8/6/2019 5:58:00 PM	SL61932
Toluene	ND	1.0		µg/L	1	8/6/2019 5:58:00 PM	SL61932
Ethylbenzene	ND	1.0		µg/L	1	8/6/2019 5:58:00 PM	SL61932
Xylenes, Total	ND	1.5		µg/L	1	8/6/2019 5:58:00 PM	SL61932
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%Rec	1	8/6/2019 5:58:00 PM	SL61932
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	8/6/2019 5:58:00 PM	SL61932
Surr: Dibromofluoromethane	94.5	70-130		%Rec	1	8/6/2019 5:58:00 PM	SL61932
Surr: Toluene-d8	91.6	70-130		%Rec	1	8/6/2019 5:58:00 PM	SL61932

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#: **1908147****09-Aug-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-46621	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46621	RunNo: 61950								
Prep Date: 8/6/2019	Analysis Date: 8/6/2019	SeqNo: 2101175 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46621	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46621	RunNo: 61950								
Prep Date: 8/6/2019	Analysis Date: 8/6/2019	SeqNo: 2101176 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.5	90	110			

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#: **1908147**

09-Aug-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: LCS-46614	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46614	RunNo: 61951								
Prep Date: 8/6/2019	Analysis Date: 8/7/2019	SeqNo: 2101219 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.4		5.000		88.0	70	130			

Sample ID: MB-46614	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46614	RunNo: 61951								
Prep Date: 8/6/2019	Analysis Date: 8/7/2019	SeqNo: 2101220 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		121	70	130			

Sample ID: LCS-46624	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46624	RunNo: 61951								
Prep Date: 8/6/2019	Analysis Date: 8/7/2019	SeqNo: 2101649 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.2	70	130			

Sample ID: MB-46624	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46624	RunNo: 61951								
Prep Date: 8/6/2019	Analysis Date: 8/7/2019	SeqNo: 2101650 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.9	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#: **1908147**

09-Aug-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: SS61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101221		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.9	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: SS61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101222		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	0.47		0.5000		93.4	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.2	70	130			
Surr: Toluene-d8	0.50		0.5000		99.8	70	130			

Sample ID: 1908147-001ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: EX-FS01RR	Batch ID: SS61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101224		Units: mg/Kg-dry						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.020	0.7870	0	98.8	68.9	131			
Toluene	0.79	0.039	0.7870	0	99.9	64.3	137			
Surr: 1,2-Dichloroethane-d4	0.37		0.3935		95.0	70	130			
Surr: 4-Bromofluorobenzene	0.38		0.3935		97.3	70	130			
Surr: Dibromofluoromethane	0.39		0.3935		98.9	70	130			
Surr: Toluene-d8	0.37		0.3935		92.8	70	130			

Sample ID: 1908147-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: EX-FS01RR	Batch ID: SS61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101225		Units: mg/Kg-dry						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.020	0.7870	0	92.5	68.9	131	6.64	20	
Toluene	0.71	0.039	0.7870	0	90.8	64.3	137	9.51	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#: 1908147

09-Aug-19

Client: Enduring Resources

Project: NEU 315H

Sample ID: 1908147-001amsd		SampType: MSD		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: EX-FSO1RR		Batch ID: SS61949		RunNo: 61949						
Prep Date:		Analysis Date: 8/6/2019		SeqNo: 2101225		Units: mg/Kg-dry				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.37		0.3935		95.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.3935		94.9	70	130	0	0	
Surr: Dibromofluoromethane	0.38		0.3935		97.8	70	130	0	0	
Surr: Toluene-d8	0.36		0.3935		92.4	70	130	0	0	

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#: **1908147****09-Aug-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: SL61932	RunNo: 61932								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101007		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.4	70	130			
Toluene	19	1.0	20.00	0	96.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.2	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.2	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL61932	RunNo: 61932								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101008		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.6	70	130			
Surr: Toluene-d8	9.3		10.00		93.4	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#: **1908147**

09-Aug-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: G61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101300		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.0	70	130			
Surr: BFB	450		500.0		89.3	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: G61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101301		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	480		500.0		96.3	70	130			

Sample ID: 1908147-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-106 R	Batch ID: G61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101553		Units: mg/Kg-dry						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	24.76	0	77.2	68.2	135			
Surr: BFB	490		495.1		98.4	70	130			

Sample ID: 1908147-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA-106 R	Batch ID: G61949	RunNo: 61949								
Prep Date:	Analysis Date: 8/6/2019	SeqNo: 2101554		Units: mg/Kg-dry						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	5.0	24.76	0	74.3	68.2	135	3.85	20	
Surr: BFB	470		495.1		95.1	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



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

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**Work Order Number: **1908147**RcptNo: **1**Received By: **Erin Melendrez** 8/3/2019 9:30:00 AMCompleted By: **Erin Melendrez** 8/5/2019 8:39:55 AMReviewed By: **IO** 8/5/19

UAG
UAG

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: **DAD 8/5/19**

Special Handling (if applicable)

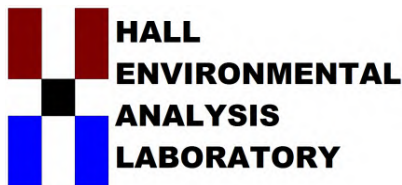
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Yes			



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

September 11, 2019

James McDaniel
Enduring Resources
332 Road 3100
Aztec, NM 87140
TEL:
FAX:

RE: NEU 315H

OrderNo.: 1909211

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/5/2019 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1909211

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: GR-07RRR

Project: NEU 315H

Collection Date: 9/4/2019 10:20:00 AM

Lab ID: 1909211-001

Matrix: SOIL

Received Date: 9/5/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE							Analyst: JMR
Percent Moisture	17	1.0		wt%	1	9/6/2019	R62758
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	72		mg/Kg-dr	20	9/10/2019 11:40:57 PM	47385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	12		mg/Kg-dr	1	9/11/2019 12:38:15 AM	47353
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dr	1	9/11/2019 12:38:15 AM	47353
Surr: DNOP	103	70-130		%Rec	1	9/11/2019 12:38:15 AM	47353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dr	1	9/10/2019 5:20:29 PM	47346
Surr: BFB	100	77.4-118		%Rec	1	9/10/2019 5:20:29 PM	47346
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg-dr	1	9/10/2019 5:20:29 PM	47346
Toluene	ND	0.059		mg/Kg-dr	1	9/10/2019 5:20:29 PM	47346
Ethylbenzene	ND	0.059		mg/Kg-dr	1	9/10/2019 5:20:29 PM	47346
Xylenes, Total	ND	0.12		mg/Kg-dr	1	9/10/2019 5:20:29 PM	47346
Surr: 4-Bromofluorobenzene	86.1	80-120		%Rec	1	9/10/2019 5:20:29 PM	47346

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 1909211

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: RB-90419

Project: NEU 315H

Collection Date: 9/4/2019 10:35:00 AM

Lab ID: 1909211-002

Matrix: AQUEOUS

Received Date: 9/5/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/6/2019 1:38:07 PM	B62709
Toluene	ND	1.0		µg/L	1	9/6/2019 1:38:07 PM	B62709
Ethylbenzene	ND	1.0		µg/L	1	9/6/2019 1:38:07 PM	B62709
Xylenes, Total	ND	2.0		µg/L	1	9/6/2019 1:38:07 PM	B62709
Surr: 4-Bromofluorobenzene	87.6	80-120		%Rec	1	9/6/2019 1:38:07 PM	B62709

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 1909211

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enduring Resources

Client Sample ID: FB-90419

Project: NEU 315H

Collection Date: 9/4/2019 10:40:00 AM

Lab ID: 1909211-003

Matrix: AQUEOUS

Received Date: 9/5/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/6/2019 2:48:51 PM	B62709
Toluene	ND	1.0		µg/L	1	9/6/2019 2:48:51 PM	B62709
Ethylbenzene	ND	1.0		µg/L	1	9/6/2019 2:48:51 PM	B62709
Xylenes, Total	ND	2.0		µg/L	1	9/6/2019 2:48:51 PM	B62709
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	9/6/2019 2:48:51 PM	B62709

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 ReportLab Order **1909211**Date Reported: **9/11/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enduring Resources**Client Sample ID:** TB-90419**Project:** NEU 315H**Collection Date:** 9/4/2019 12:00:00 PM**Lab ID:** 1909211-004**Matrix:** AQUEOUS**Received Date:** 9/5/2019 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/6/2019 3:36:17 PM	B62709
Toluene	ND	1.0		µg/L	1	9/6/2019 3:36:17 PM	B62709
Ethylbenzene	ND	1.0		µg/L	1	9/6/2019 3:36:17 PM	B62709
Xylenes, Total	ND	2.0		µg/L	1	9/6/2019 3:36:17 PM	B62709
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	9/6/2019 3:36:17 PM	B62709

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#: **1909211****11-Sep-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-47385	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 47385	RunNo: 62808								
Prep Date: 9/10/2019	Analysis Date: 9/10/2019	SeqNo: 2139935	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-47385	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 47385	RunNo: 62808								
Prep Date: 9/10/2019	Analysis Date: 9/10/2019	SeqNo: 2139936	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	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#: **1909211****11-Sep-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: LCS-47353	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47353	RunNo: 62773								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2140184 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	121	63.9	124			
Surr: DNOP	5.9		5.000		117	70	130			

Sample ID: MB-47353	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47353	RunNo: 62773								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2140185 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	11		10.00		111	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#: **1909211****11-Sep-19****Client:** Enduring Resources**Project:** NEU 315H

Sample ID: MB-47346	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 47346	RunNo: 62805								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2139679 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	1000		1000		100	77.4	118			

Sample ID: LCS-47346	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 47346	RunNo: 62805								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2139680 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	92.5	80	120			
Surr: BFB	1200		1000		116	77.4	118			

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#: **1909211**

11-Sep-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: MB-47346	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 47346	RunNo: 62805								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2139720 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	0.85		1.000		84.6	80	120			

Sample ID: LCS-47346	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 47346	RunNo: 62805								
Prep Date: 9/9/2019	Analysis Date: 9/10/2019	SeqNo: 2139721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.1	80	120			
Toluene	0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.2	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	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#: **1909211**

11-Sep-19

Client: Enduring Resources**Project:** NEU 315H

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: B62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136743 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		95.4	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: B62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136744 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.3	80	120			
Toluene	20	1.0	20.00	0	98.8	80	120			
Ethylbenzene	19	1.0	20.00	0	96.6	80	120			
Xylenes, Total	59	2.0	60.00	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	80	120			

Sample ID: 1909211-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: RB-90419	Batch ID: B62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136754 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0.3140	103	80	120			
Toluene	21	1.0	20.00	0.4220	105	75.5	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	65	2.0	60.00	0	109	77.3	119			
Surr: 4-Bromofluorobenzene	22		20.00		109	80	120			

Sample ID: 1909211-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: RB-90419	Batch ID: B62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136755 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0.3140	92.1	80	120	11.2	20	
Toluene	19	1.0	20.00	0.4220	93.3	75.5	120	11.7	20	
Ethylbenzene	19	1.0	20.00	0	94.6	80	120	12.9	20	
Xylenes, Total	57	2.0	60.00	0	95.5	77.3	119	13.0	20	
Surr: 4-Bromofluorobenzene	20		20.00		101	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



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

Sample Log-In Check List

Client Name: **ENDURING RESOURCE**Work Order Number: **1909211**RcptNo: **1**Received By: **Daniel Marquez** **9/5/2019 8:15:00 AM**Completed By: **Leah Baca** **9/5/2019 1:36:18 PM**Reviewed By: **JD** **9/5/19**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

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

Adjusted? _____

Checked by: DAD 9/5/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

Chain-of-Custody Record

Client: Enduring ResourcesMailing Address: James McDaniel

Phone #: _____

email or Fax#: James.McDaniel@enduringresources.comQA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other _____EDED (Type) PDFProject Manager: Danny Burns - LTESampler: Eric CarrollOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 3.6-0.3-33.0Container Type and # 1492Preservative Type COOLHEAL No. 1909211Date 9/14/19Time 1020Matrix SoilSample Name GR-07 RRRDate 9/14/19Time 1035Matrix AqueousSample Name RB-90819Date 1040Time 1040Matrix AqueousSample Name FB-90819Date 1200Time 1200Matrix ↓Sample Name TB-90819Date 9/14/19Time 1330Matrix ↓Sample Name TB-90819Date 9/14/19Time 1