

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: Chad Snell	Contact Telephone: 505-444-0586
Contact email: csnell@enduringresources.com	Incident # (assigned by OCD) : nRM2005749421
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36.172497 Longitude -107.535743
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: S Chaco Unit 342H	Site Type: Wellsite
Date Release Discovered: 8/9/2019	API# (if applicable) 30-043-21243

Unit Letter	Section	Township	Range	County
A	2	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 300 BBLS	Volume Recovered (bbls): 40 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 8/9/2019, an Enduring employee noticed water seeping from beneath the liner at this location. The well was shut in, and 40 bbls of liquid was recovered. Upon review of production volumes, it appears approximately 300 bbls of produced water was lost through a leaking underground flowline. Assessment activities took place on 8/12/2019. Results are attached. Groundwater at this site is over 100 feet based on a cathodic well drilled at the location, see attached *Cathodic Well Log*. This sets the standards for closure to 20,000 ppm chlorides, 10 ppm benzene, 50 ppm total BTEX, 1,000 ppm DRO+GRO, and 2,500 ppm DRO+GRO+MRO.

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Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?

The volume of the release is of sufficient volume to be considered 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 4:46 PM on 8/9/2019 via phone call by James McDaniel, HSE Supervisor. A follow-up email was sent on 8/9/2019 at 4:58 PM, see attached email.

Initial Response

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

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?

118 (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ NoDid the release impact areas **not** on an exploration, development, production, or storage site?☐ Yes ☒ No

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

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

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

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

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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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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: Chad Snell Title: HSE TechSignature:  Date: 4/6/2020email: csnell@enduringresources.comTelephone: (505)444-0586**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: Chad Snell Title: HSE TechSignature: Date: 4/6/2020email: csnell@enduringresources.comTelephone: (505)444-0586

OCD Only

Received by: _____ Date: _____

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: Nelson Velez Date: 12/22/2021Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Site Assessment/Characterization

On 8/12/2019, samples for initial characterization were collected from the site using a hand auger. Samples were collected from four (4) boreholes inside the production equipment berm area, and from the excavated area where the line release occurred. Four (4) additional samples were collected from the surface area outside of the production equipment berm area where the produced water seeped out from beneath the liner.

Boreholes 1, 2 and 4 were advanced to depths of 2.5 feet, while borehole 3 was advanced to a depth of 4 feet; see attached *Boring Logs* and *Field Notes*. The subsurface soil consisted of a brown, damp, dense clay from the surface all the way to the bottom of the boring. No hydrocarbon odor was detected in any of the samples collected during assessment activities. Two (2) additional samples were collected from the excavated area around the produced water line from six (6) inches below ground surface, and five (5) feet below ground surface; see attached *Boring Logs* and *Field Notes*. Additionally, the two (2) areas where the produced water seeped out from beneath the liner were separated into two (2) sections each. The Sections were separated into Surface Front Sections 1 & 2, and Surface Back Sections 1 & 2. All samples were analyzed for TPH (DRO, GRO and DRO) via USEPA Method 8015, benzene and BTEX via USEPA Method 8021, and for Chlorides via USEPA Method 9056A.

Based on the depth to groundwater determined using the cathodic well drilled on location in 2015, the least stringent Table I standards are applicable for this location. All samples returned results below the Table I standards for TPH, benzene, total BTEX and chlorides; see attached *S Chaco Unit 342H Sample Results Table*. However, chloride levels were above 600 mg/kg in the top four (4) feet, requiring remediation for reclamation purposes.

Remediation Plan

Remediation Technique

Enduring Resources, LLC (Enduring) proposes to remediate the chloride levels above 600 mg/kg in the top four (4) feet of soil outside of the equipment containment area using excavation and removal of impacted soil above 600 mg/kg of chlorides. Enduring is proposing to defer remediation of chloride impacted soil in the top four (4) feet of soil beneath the production equipment berm to the plugging and abandoning of the well location due to the fact that remediation of the chloride impacts would adversely impact the production of this location.

Scaled Sitemap

A Scaled Sitemap is attached to this report, and the GPS coordinates of each soil boring are presented in the boring logs attached to this report; see attached *Site Map* and *Boring Logs*.

Estimated Volume

Based on the surficial nature of the impacts on the well pad not beneath the production equipment, an estimated volume of 150 cubic yards is expected to be removed during excavation activities.

Closure Criteria

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Remediation Schedule

Excavation activities for areas on the well pad are have been completed. Impacts beneath on-site production equipment will be deferred to the plugging and abandoning of this well location.

Once excavation activities have been conducted on all impacted areas not beneath on-site production equipment and liners, notification will be made to the NMOCD, and final closure sampling

will be conducted on the site to confirm levels of chlorides are below 600 mg/kg in areas that are not beneath current production equipment and liners.

Remediation Narrative

On 8/21/2019 the Initial C-141 with Remediation plan and Site Assessment was submitted to the NMOCD. Clean-up activities also began on impacted areas not beneath production equipment. Areas included the "Back Side" of containment, south of the containment (Hole 1 and 2) the "Front Section" and "Under the Meter". Areas that could not be reached with a back hoe (Hole 1,2 and Under the Meter) were excavated using hand shovels. A few inches of impacted soil was scrapped up from the surface and approximately 50 cu yards of soil was removed. Preliminary samples were taken to see if all impacted soil was removed. Samples showed elevated results in chlorides and further excavation was needed.

On 8/27/2019 further excavation continued, removing approximately 50 cu yards of impacted soil. The areas were excavated between 6 inches to 1 foot in depth. Soil under the meter was delineated to Table 1 standard and was not excavated any further due to difficulty removing soil and not wanting to lose production by moving meter. Another set of preliminary samples were taken which still showed elevated results with chlorides in the top four feet.

Further excavation continued on 9/5/2019 removing another foot of impacted soil. Chlorides still showed elevated results in excavation areas.

On 9/16/2019 excavation activities resumed taking out another foot of impacted soil. Excavation areas were approximately 3 feet in depth. Preliminary samples still showed high chlorides above standards in the top four feet (600mg/kg) but below Table 1 standards.

On 9/25/2019 impacted areas that were not below production equipment (Hole 1, 2 and Backside) were excavated to the depth of 4 feet. A total of approximately 350 cu yards of impacted soil was removed over the course of remediation activities.

Email notification was sent on 10/17/2019 to Cory Smith of the NMOCD and Abiodun Emmanuel Adeloye of the BLM that sampling activities would be performed on Monday October 21st 2019.

Sampling activities took place on 10/21/2019 with Cory Smith of the NMOCD onsite to witness. A total of 27 composite samples were taken from the excavated area. All samples taken met the Table 1 standards for this site but in some areas did not meet the closure of 600mg/kg in the top four feet and remediation will occur at final reclamation of the well site. Please see attached "Sample Results Table" and "Sample Map" for reference.

Samples taken under the liner and production equipment on 8/13/2019 returned all below Table 1 standards of 20,000mg/kg Chlorides but were above the 600mg/kg Chlorides in the top four feet so remediation of impacted area will occur at the time of final reclamation.

Final C-141 was denied by NMOCD. Further delineation of the site was requested. On 3/16/2020 eight (BH 5-12) additional borings were completed, see attached "Boring map" for reference. Two samples on each bore hole were collected and analyzed for Chlorides. One sample being collected at 6 inches – 1 foot and the other at 4 foot.

On 3/17/2020 analytical report was received with Bore holes 6, 7 and 10 having elevated results, see "Sample Results Table" for reference.

On 3/19/2020 three additional bore holes were completed to further delineate the site (BH 13-15). Two samples were collected on each bore hole again one at 6 inches – 1 foot and the other at 4 foot, see "Boring Map" for reference.

Analytical report was received on 3/20/2020 and one of the three bore holes had elevated chloride levels, see "Sample Results Table" for reference.

Bore Hole 16 was completed on 3/23/2020 with samples collected at 6 inches – 1 foot and at 4 foot. Analytical report was received on 3/24/2020 with all results below 600mg/kg.

The release has now been fully delineated and shows the full extent of area Enduring is requesting for deferral of remediation of chloride impacted soil in the top four (4) feet of soil beneath the production equipment berm to the plugging and abandoning of the well location. Attached is a scaled map of the area being deferred and also delineation points. No further action is required at this time.

James McDaniel

From: James McDaniel <JMcDaniel@enduringresources.com>
Sent: Friday, August 09, 2019 4:58 PM
To: Cory.Smith@state.nm.us; Brandon.Powell@state.nm.us; Jim.Griswold@state.nm.us
Cc: Andrea Felix; Tim Friesenhahn; Alex Campbell; Chad Snell; John Conley
Subject: S Chaco 342H Release

Cory,

As discussed in my phone call, please accept this email as the 24 hour notice for a release of produced water at the S Chaco 342H well location (API 30-043-21243). The release occurred from an underground flow line from the separator to the on-site water tank. The release appears to be a slow leak over the course of several days, and preliminary estimates based on water volume reports appears to be approximately 300 bbls. All water remained on the pad beneath the liner, and started to seep out from under the liner. Trucks were dispatched to collect pooled water, and assessment activities will begin Monday. Please don't hesitate to contact me with additional questions or concerns.

James McDaniel
HSE Supervisor
Enduring Resources
CSP #30009
CHMM #15676
Office: [505-636-9731](tel:505-636-9731)
Cell: [505-444-3004](tel:505-444-3004)
jmcdaniel@enduringresources.com

Chad Snell

From: Chad Snell
Sent: Thursday, October 17, 2019 7:58 AM
To: 'Smith, Cory, EMNRD'; 'aadeloye@blm.gov'
Cc: James McDaniel
Subject: S. Chaco 342H Closure Sampling

Good Morning Gentlemen,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the S. Chaco 342H. Closure sampling will take place on Monday October 21st 2019 beginning at 10:30 am. There are areas of this release that Enduring would like to propose to defer during this time due to the fact that remediation of chloride impacts would adversely impact production of this location. Areas of the release that were not around production equipment has been remediated. Please let me know if you can make it. Also don't hesitate to contact James or myself for any questions.

Thanks.

Chad Snell
HSE Tech
Enduring Resources
(505) 444-0586.



Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo 1: View of Surface Back Section of Release

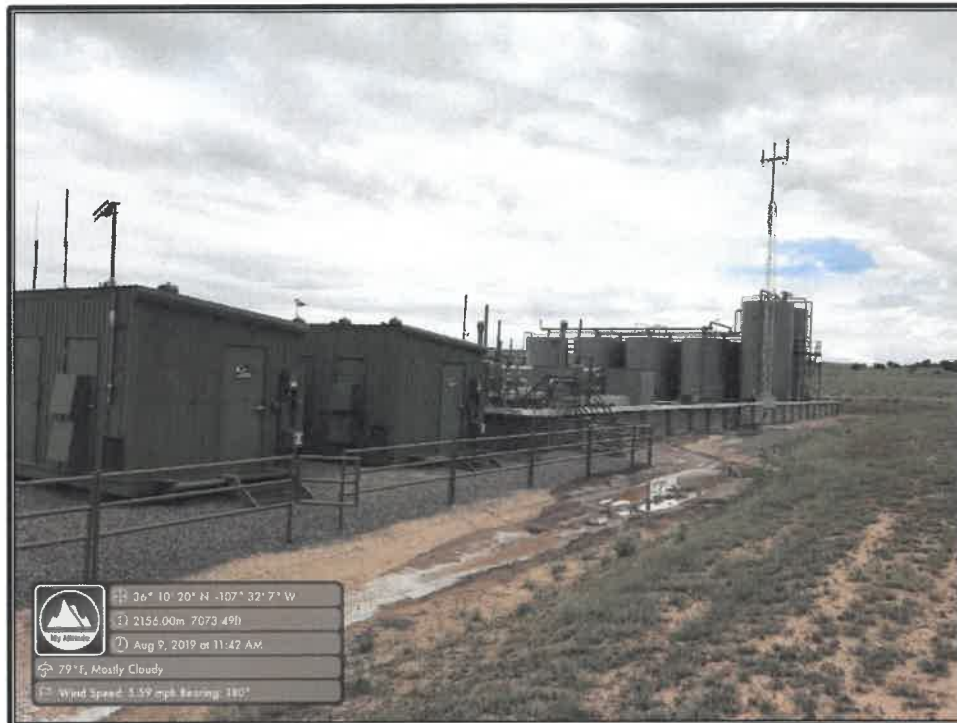


Photo 2: Front Section of Release (View 2)





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: Front Section after Excavation





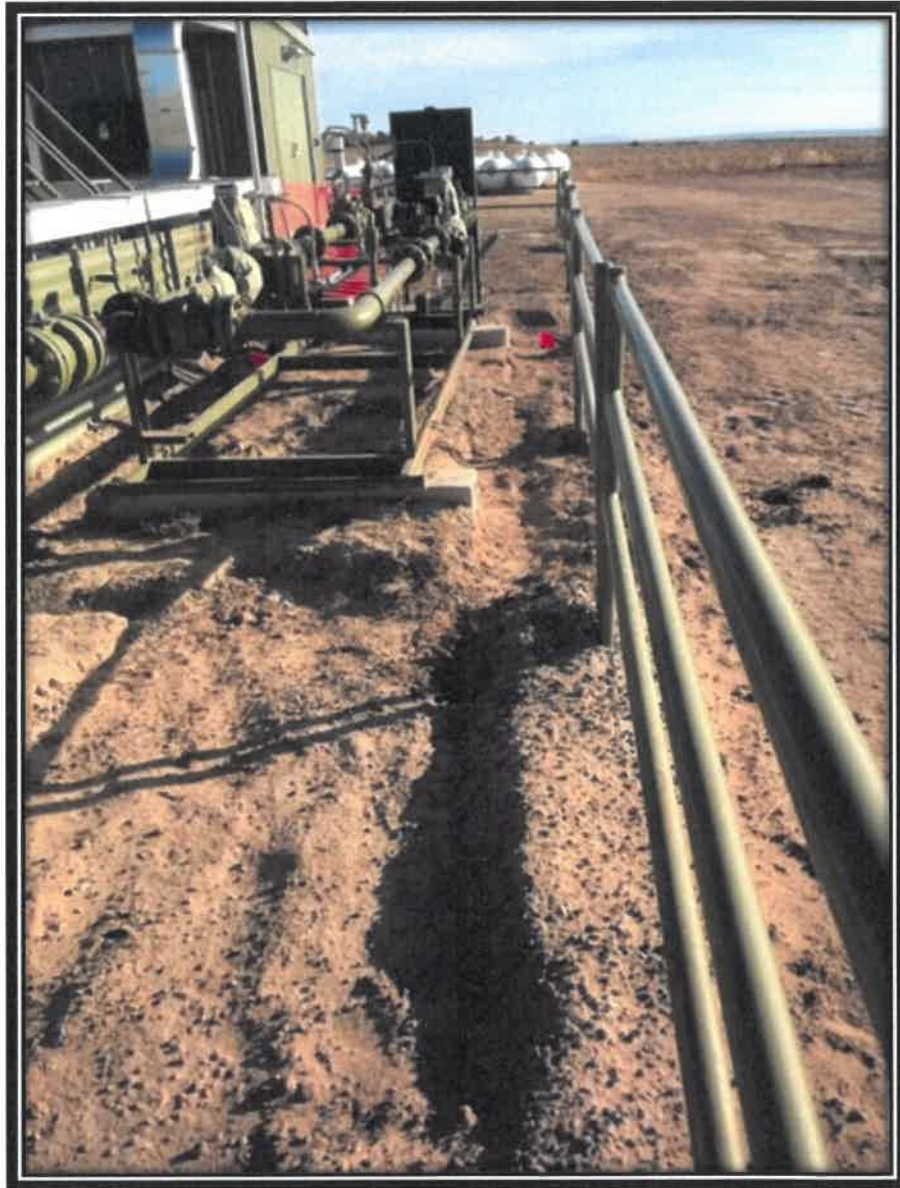
Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H





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Spill Closure Report
S Chaco Unit 342H

Photo: "Under Meter"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Hole 2"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Hole 1"





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Spill Closure Report
S Chaco Unit 342H

Photo: "Back Section"





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Spill Closure Report
S Chaco Unit 342H

Photo: "West Wall"





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S Chaco Unit 342H





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Spill Closure Report
S Chaco Unit 342H

Photo: "Back Section" and "East Wall"





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Spill Closure Report
S Chaco Unit 342H

Bore Holes 5





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

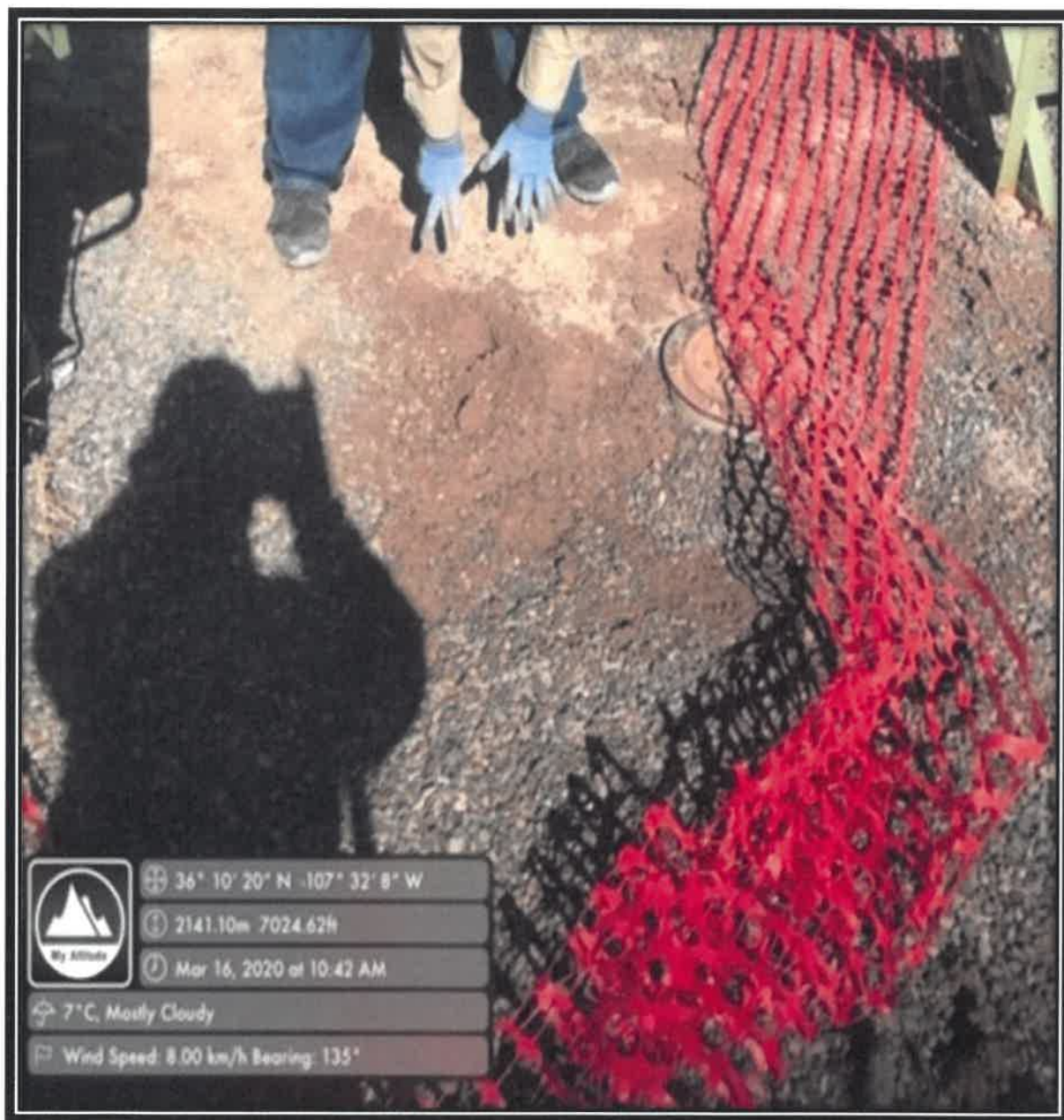
Bore Hole 6





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

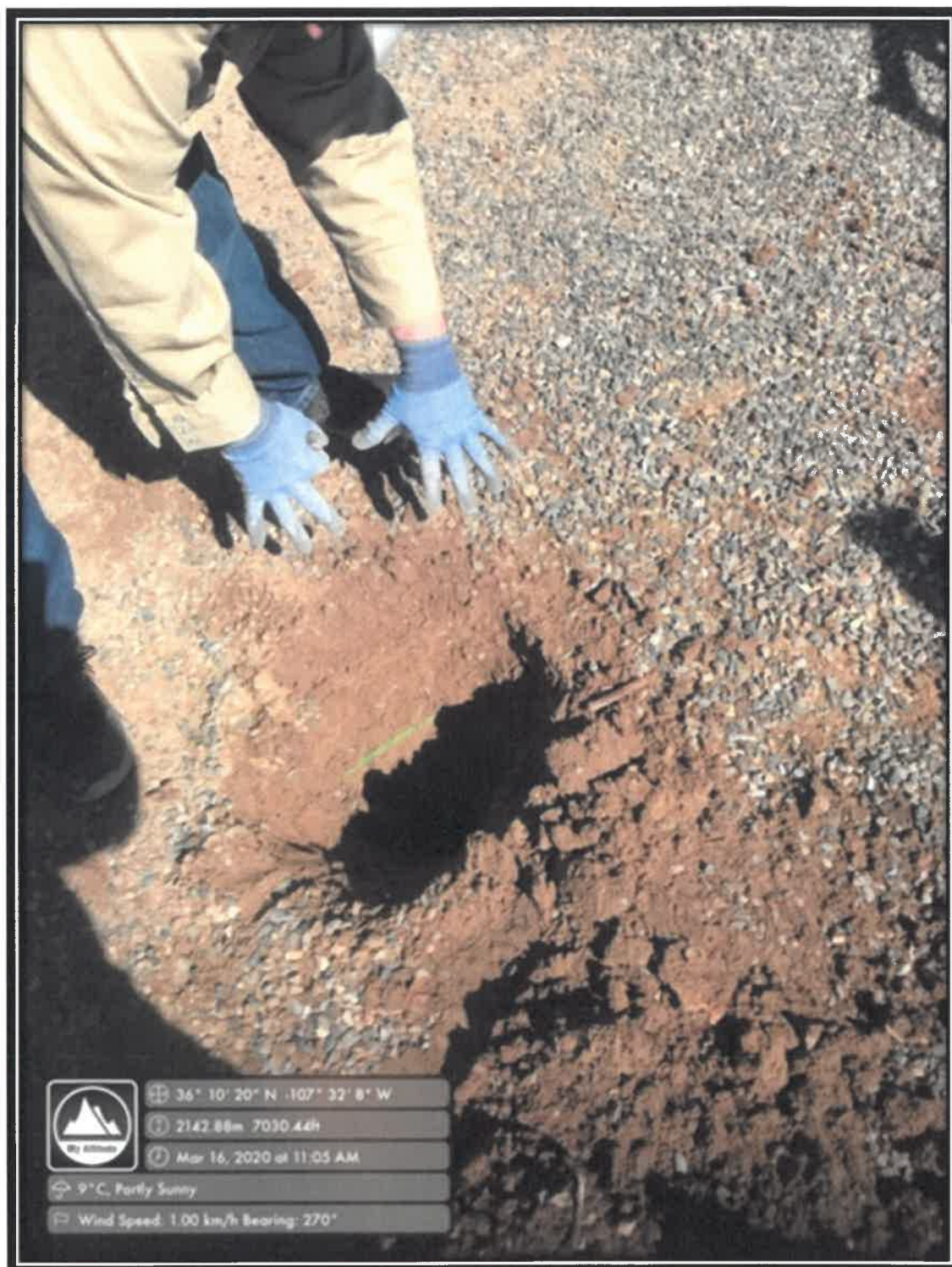
Bore Hole 7





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

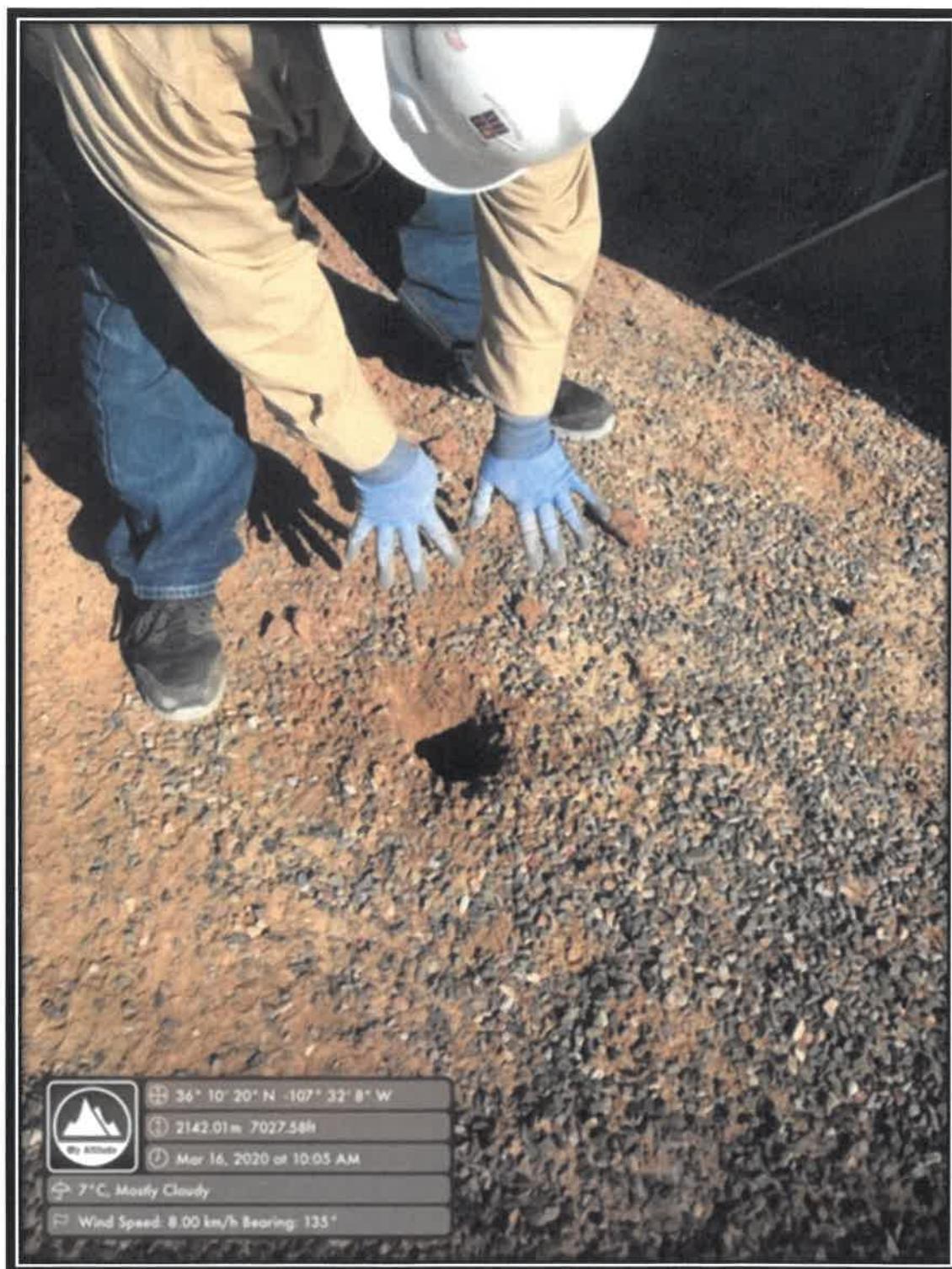
Bore Hole 8





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

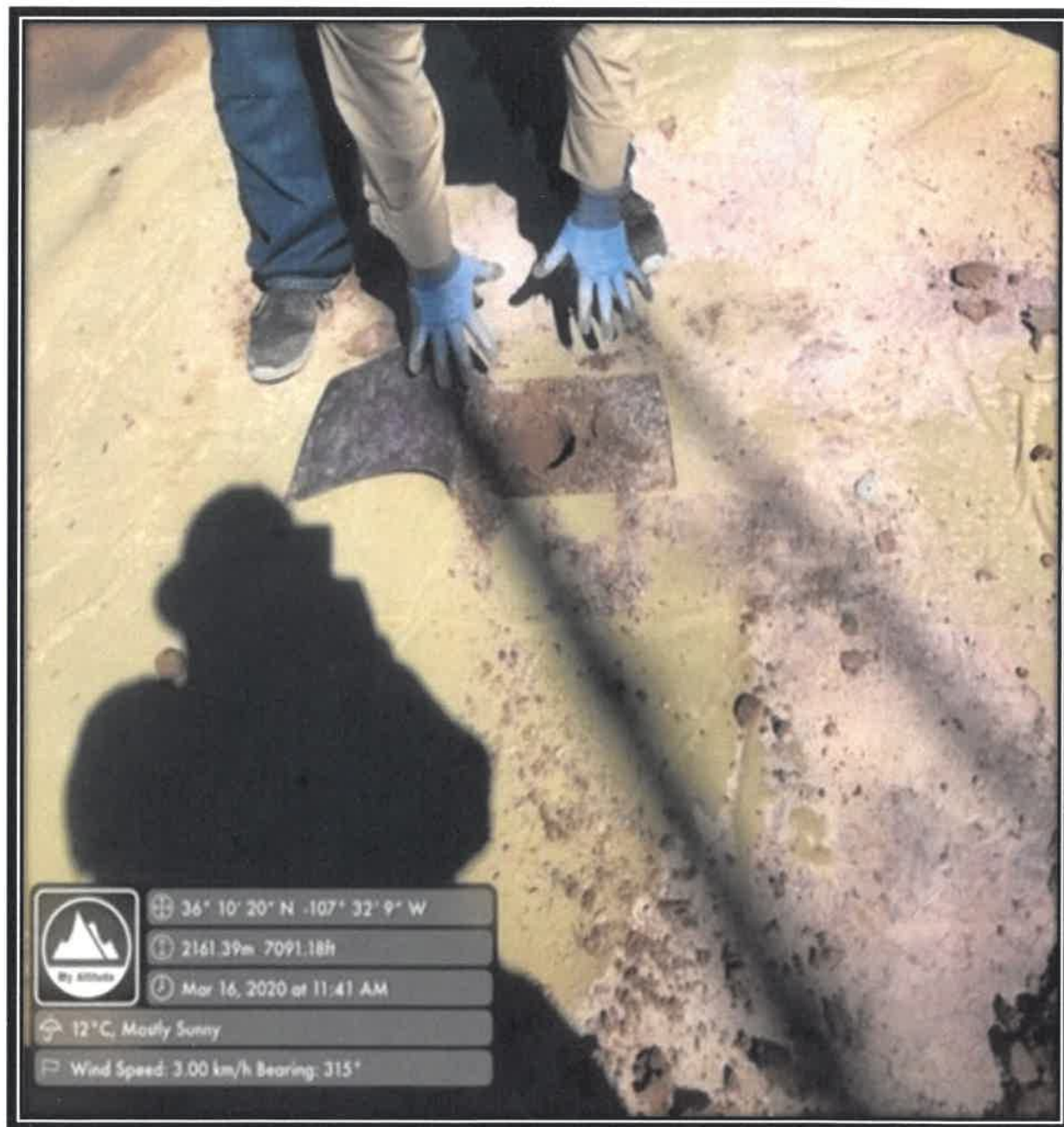
Bore Hole 9





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Bore Hole 10





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

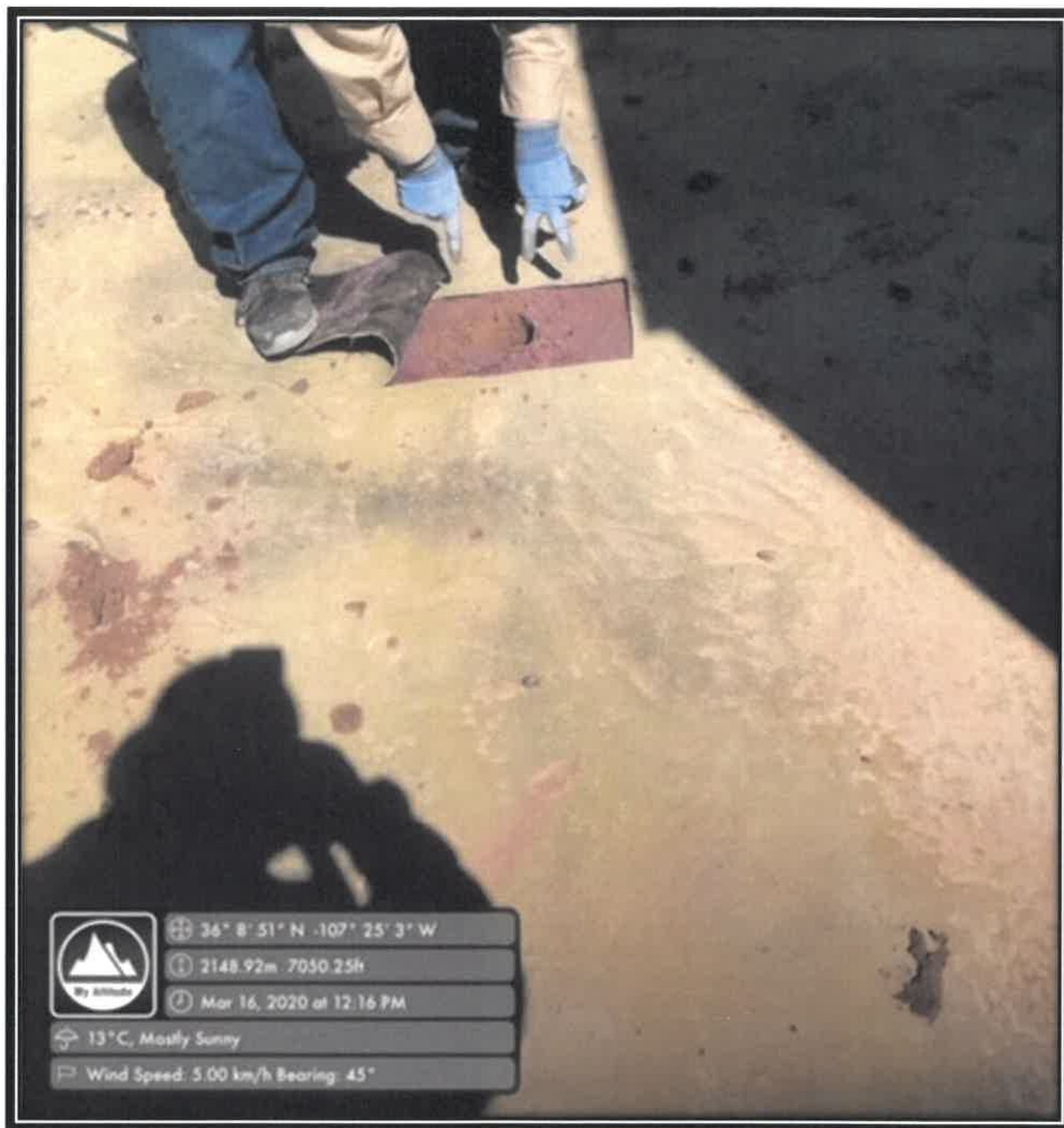
Bore Hole 11





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Bore Hole 12





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

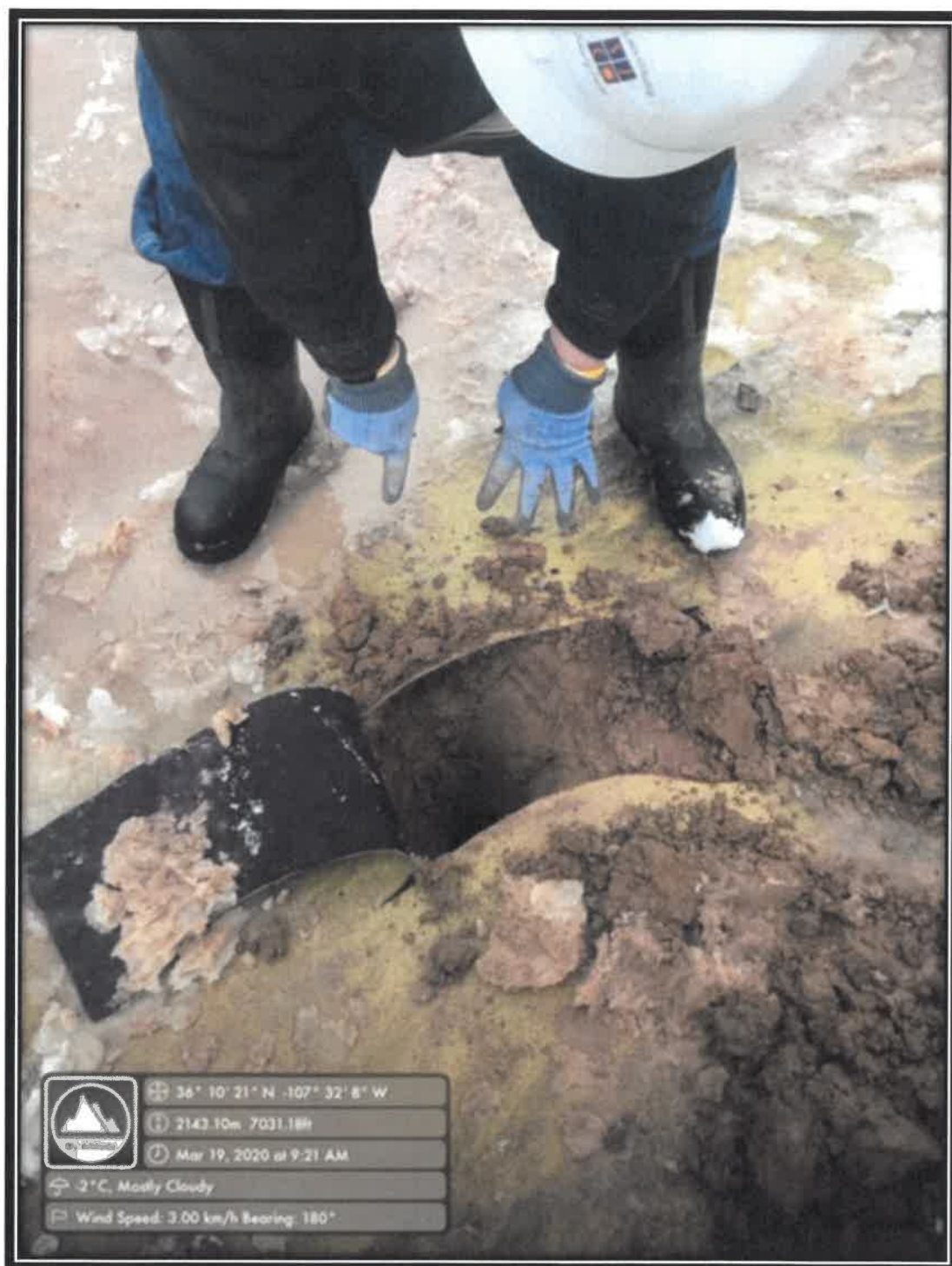
Bore Hole 13





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

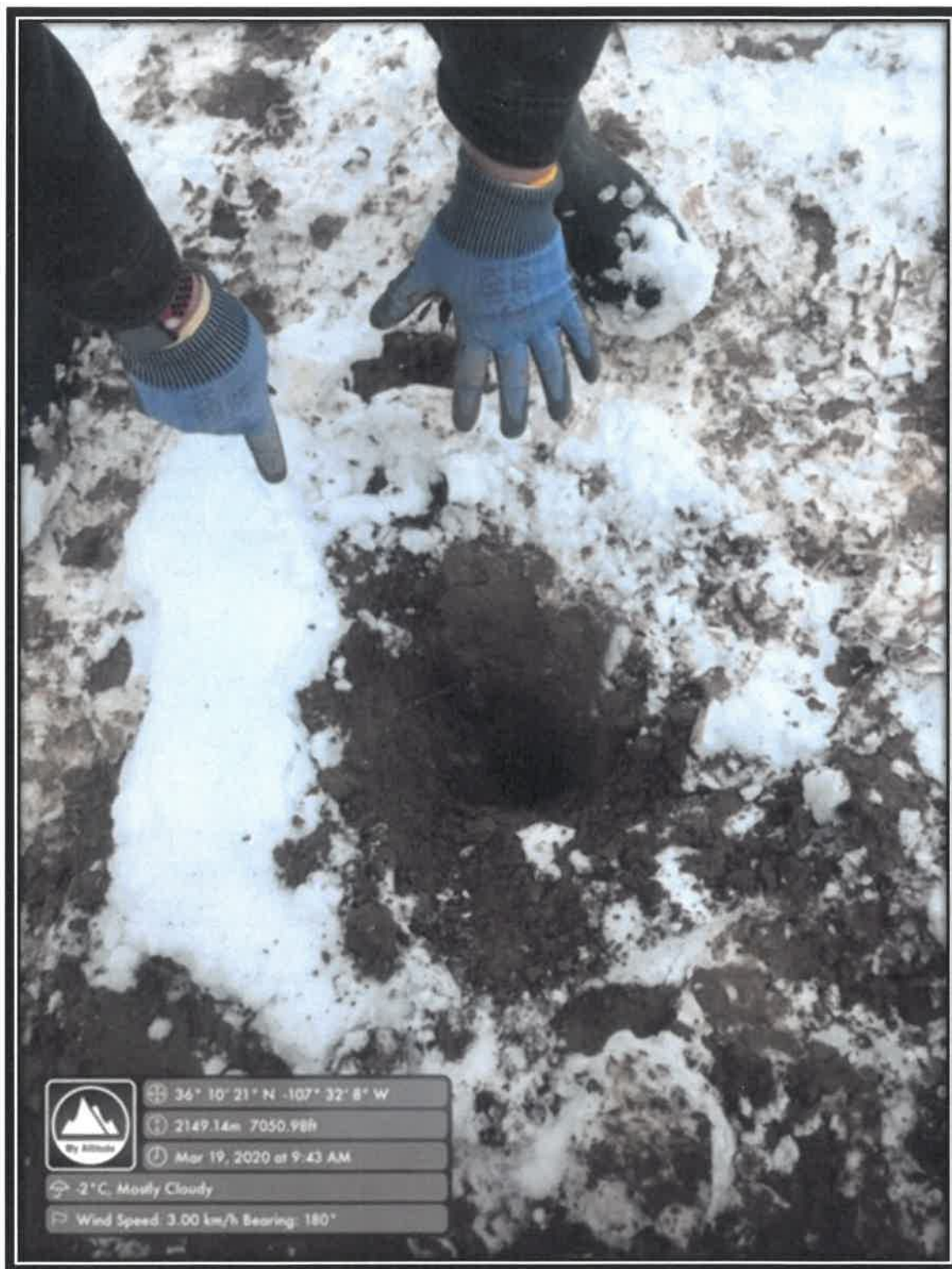
Bore Hole 14





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

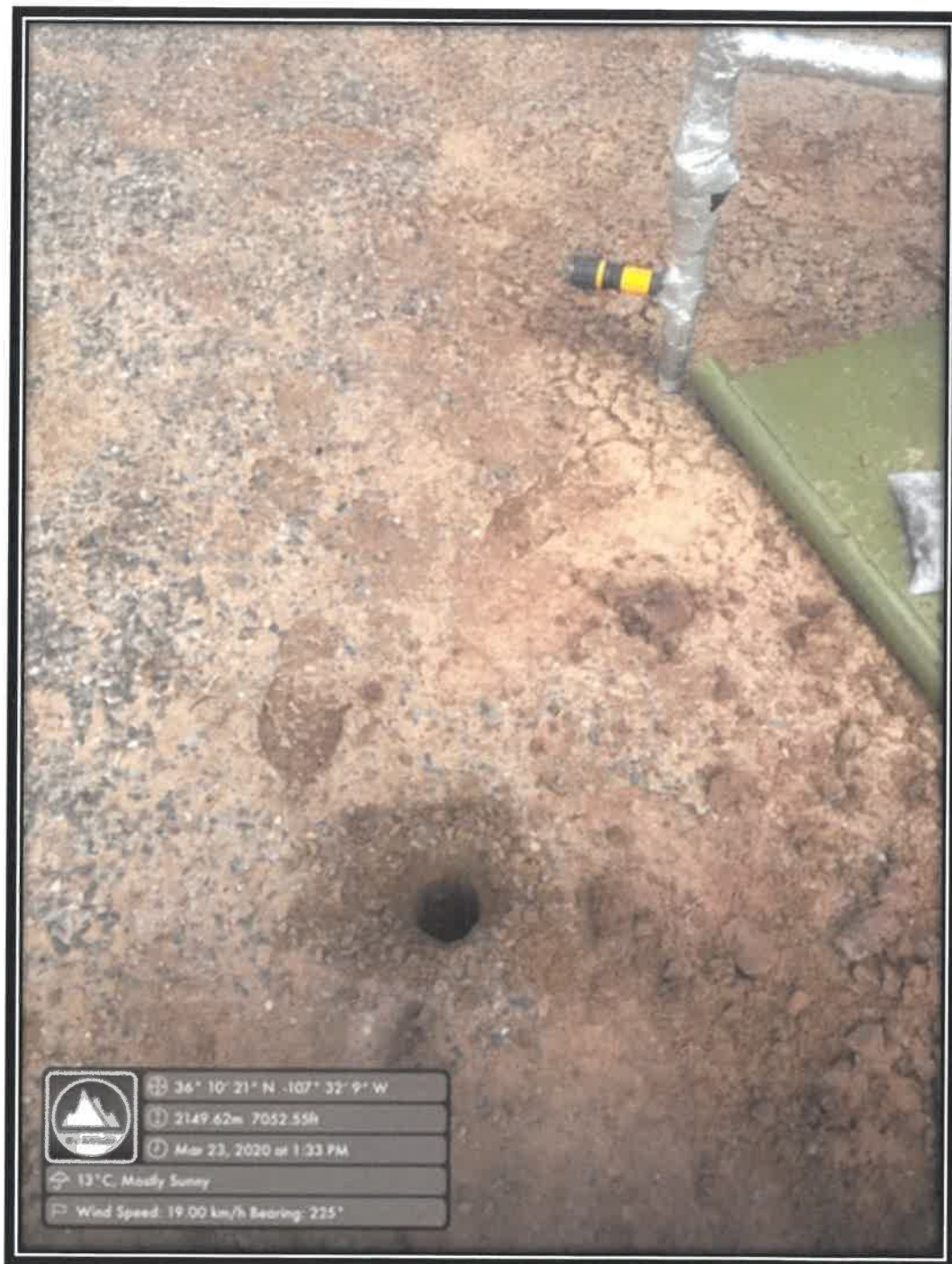
Bore Hole 15





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Bore Hole 16

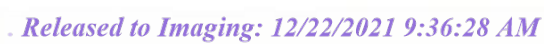


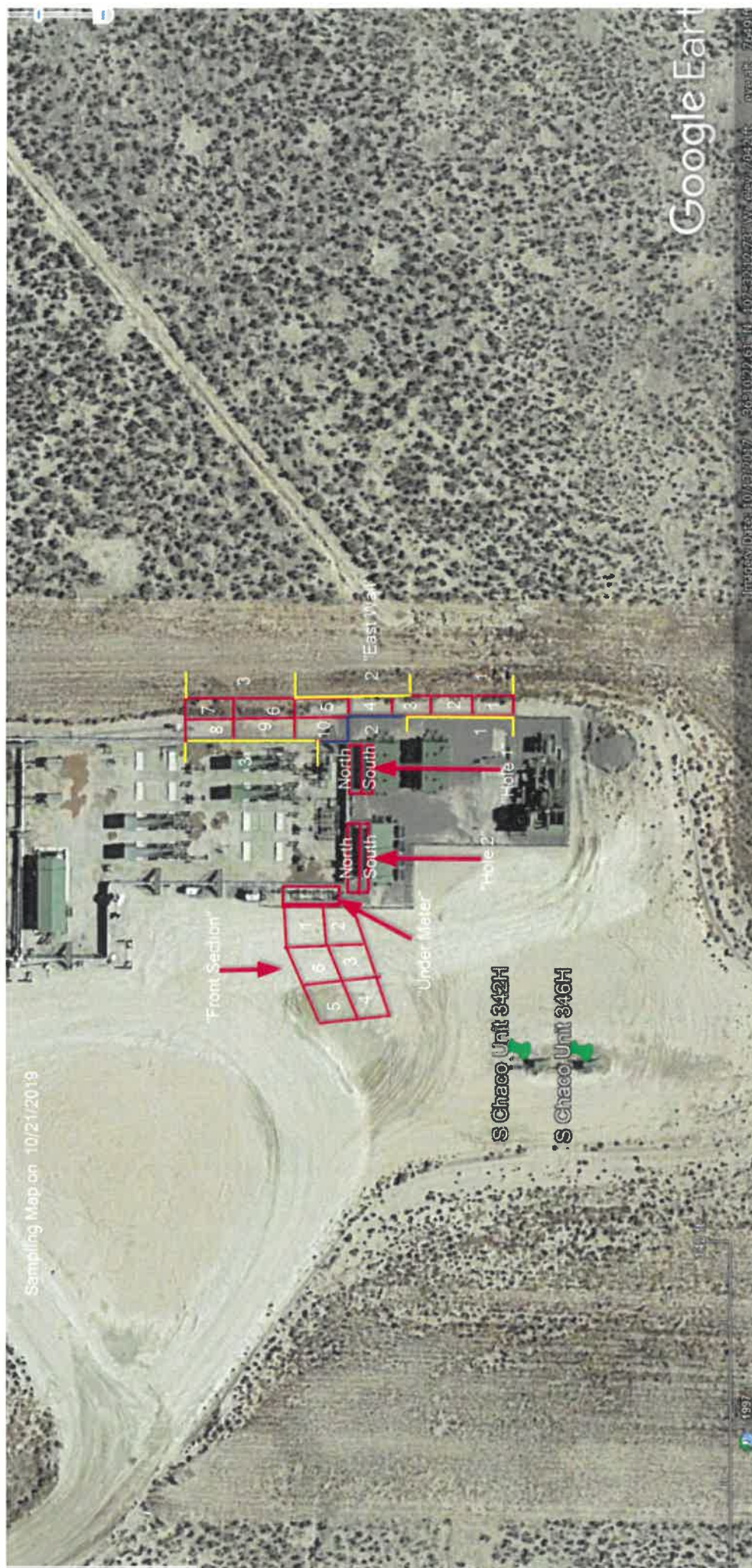
S Chaco Unit 342H Sampling Results

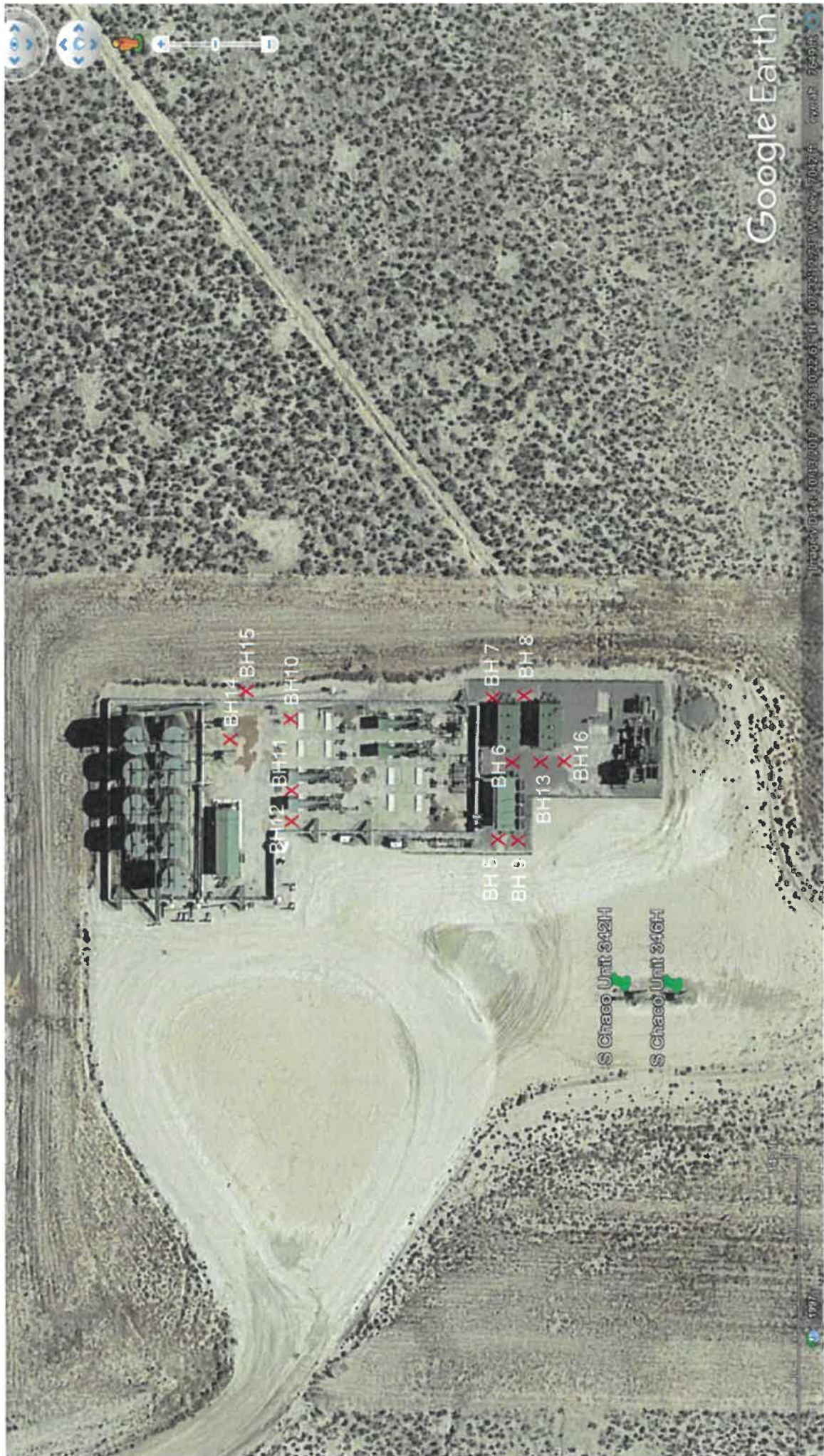
Sample Location	Date	GRO	DRO	TPH (DRO+GRO)	ORO	TPH (DRO+GRO+ORO)	Benzene	Toluene	Ethylbenzene	Xylene	BTEX	Chloride (ppm)
Bore Hole 1 @ 0-6"	8/12/2019	< 0.128	< 5.11	ND	< 5.11	ND	0.00744	< 0.00639	< 0.000639	< 0.00192	0.00744	1550
Bore Hole 1 @ 2.5'	8/12/2019	< 0.125	< 4.98	ND	< 4.98	ND	< 0.000623	< 0.00623	< 0.000623	< 0.00187	ND	841
Bore Hole 2 @ 0-6"	8/12/2019	0.862	< 4.99	0.862	< 4.99	0.862	0.0927	0.0678	0.00516	0.0329	0.19856	3430
Bore Hole 2 @ 2.5'	8/12/2019	0.888	< 5.0	0.888	< 5.0	0.888	0.0209	0.0078	0.00177	0.0137	0.04417	1160
Bore Hole 3 @ 0-6"	8/12/2019	0.276	< 4.9	0.276	< 4.9	0.276	0.0176	0.00653	< 0.000612	< 0.00184	0.02413	1350
Bore Hole 3 @ 2.5'	8/12/2019	< 0.120	< 4.81	ND	< 4.81	ND	0.00765	< 0.120	< 0.000601	< 0.00180	0.00765	998
Bore Hole 3 @ 4'	8/12/2019	< 0.124	< 4.95	ND	< 4.95	ND	0.0065	< 0.00619	< 0.000619	< 0.00186	0.0065	1210
Bore Hole 4 @ 0-6"	8/12/2019	0.23	< 4.84	0.23	< 4.84	0.23	0.0197	0.0155	0.00157	0.00989	0.0466	2810
Bore Hole 4 @ 2.5'	8/12/2019	1.33	< 5.37	1.33	< 5.37	1.33	0.00596	< 0.00672	< 0.000672	0.018	0.02396	511
Surface Front Section 1 @ 0-6"	8/12/2019	< 0.112	< 4.47	ND	< 4.47	ND	< 0.000559	< 0.00559	< 0.000559	< 0.00168	ND	3670
Surface Front Section 2 @ 0-6"	8/12/2019	< 0.117	< 4.69	ND	< 4.69	ND	< 0.000586	< 0.00586	< 0.000586	< 0.00176	ND	3230
Surface Back Section 1 @ 0-6"	8/12/2019	0.53	< 5.11	0.53	< 5.11	0.53	0.00996	0.0103	0.000919	0.0308	0.051979	7570
Surface Back Section 2 @ 0-6"	8/12/2019	< 1.22	< 4.88	ND	8.52	8.52	< 0.000610	< 0.00610	< 0.000610	< 0.00183	ND	6850
Spill Area @ 0-6"	8/12/2019	5.37	8.28	13.65	5.16	18.81	0.0548	0.0693	0.0188	0.143	0.2859	1650
Spill Area @ 5'	8/12/2019	10.5	6.52	17.02	< 5.27	17.02	0.0916	0.145	0.0472	0.318	0.6018	3130
Bore Hole 5 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 20
Bore Hole 5 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	568
Bore Hole 6 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	149
Bore Hole 6 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1080
Bore Hole 7 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	739
Bore Hole 7 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	798
Bore Hole 8 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 20
Bore Hole 8 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 20
Bore Hole 9 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 20
Bore Hole 9 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	51
Bore Hole 10 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	761
Bore Hole 10 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	760
Bore Hole 11 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	32.7
Bore Hole 11 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	59.8
Bore Hole 12 @ 6" - 1'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	27.8
Bore Hole 12 @ 4'	3/16/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	51.1

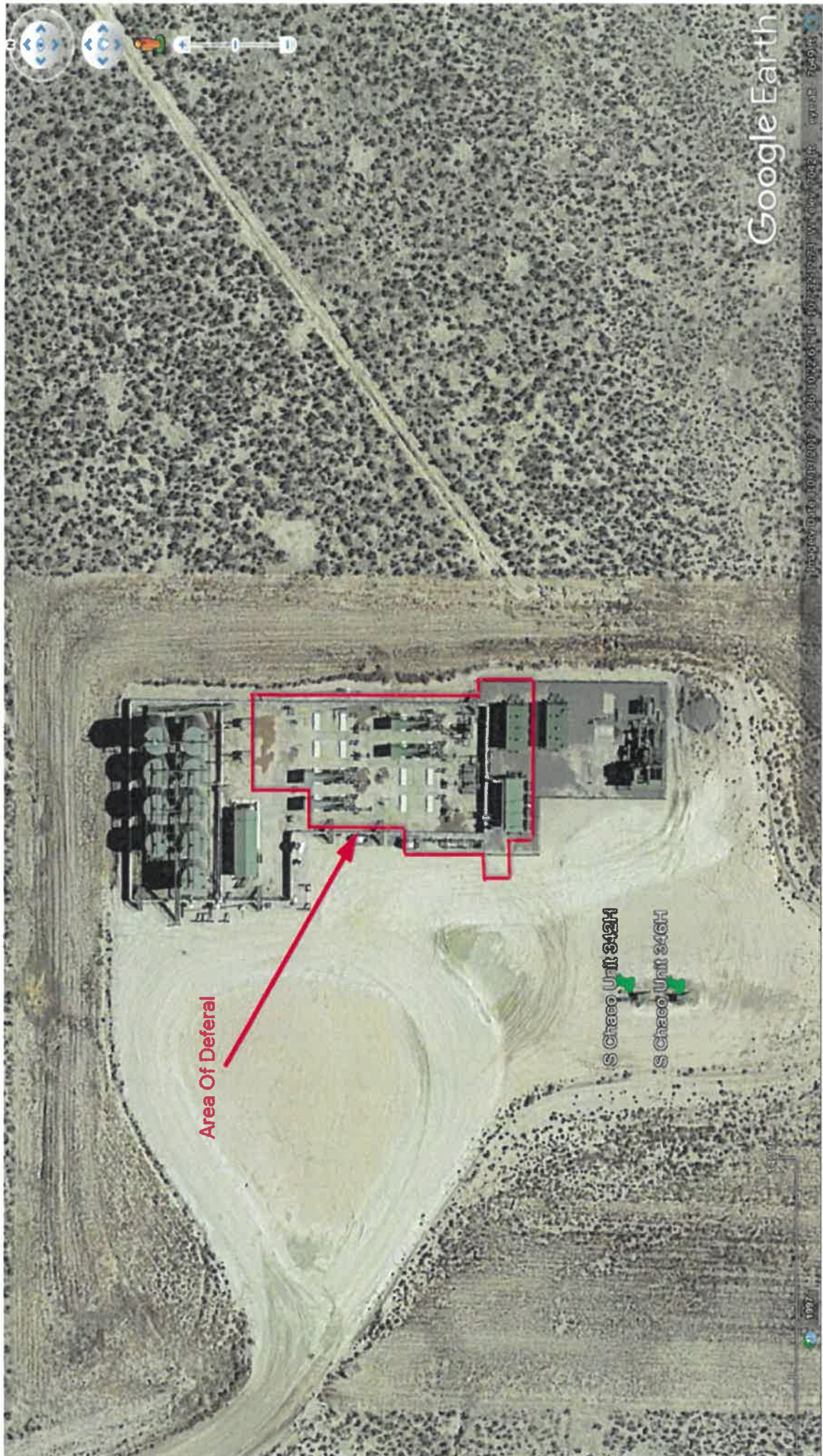
S. Chaco 342H 10/21/2019

Sample Name	Description	Date	Time	DRO	GRO	DRO+	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Ground Water >100ft	NA	NA	NA	NA	NA	2500	10	NA	NA	NA	50	20,000	200 sq. ft
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Front Section 1	Composite	10/21/2019	10:40 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	419	200
Front Section 2	Composite	10/21/2019	10:45 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	936	200
Front Section 3	Composite	10/21/2019	10:50 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	619	200
Front Section 4	Composite	10/21/2019	10:55 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	172	200
Front Section 5	Composite	10/21/2019	11:00 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	147	200
Front Section 6	Composite	10/21/2019	11:05 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	224	200
Under Meter	Composite	10/21/2019	11:10 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2610	200
Hole 2 South	Composite	10/21/2019	11:15 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1210	230
Hole 2 North	Composite	10/21/2019	11:20 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2190	230
Hole 1 South	Composite	10/21/2019	11:25 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	3360	178
Hole 2 North	Composite	10/21/2019	11:30 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	4100	178
Back Section 1	Composite	10/21/2019	11:35 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	121	200
Back Section 2	Composite	10/21/2019	11:40 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	158	200
Back Section 3	Composite	10/21/2019	11:45 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	290	200
Back Section 4	Composite	10/21/2019	11:50 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	165	200
Back Section 5	Composite	10/21/2019	11:55 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1670	200
Back Section 6	Composite	10/21/2019	12:00 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1770	200
Back Section 7	Composite	10/21/2019	12:05 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	135	200
Back Section 8	Composite	10/21/2019	12:10 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2340	200
Back Section 9	Composite	10/21/2019	12:15 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2220	200
Back Section 10	Composite	10/21/2019	12:20 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	847	200
East Wall 1	Composite	10/21/2019	12:25 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	506	200
East Wall 2	Composite	10/21/2019	12:30 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	523	200
East Wall 3	Composite	10/21/2019	12:35 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	ND	160
West Wall 1	Composite	10/21/2019	12:40 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	39.4	200
West Wall 2	Composite	10/21/2019	12:45 AM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1290	200
West Wall 3	Composite	10/21/2019	12:45 PM	<25	<20	ND	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	7350	200



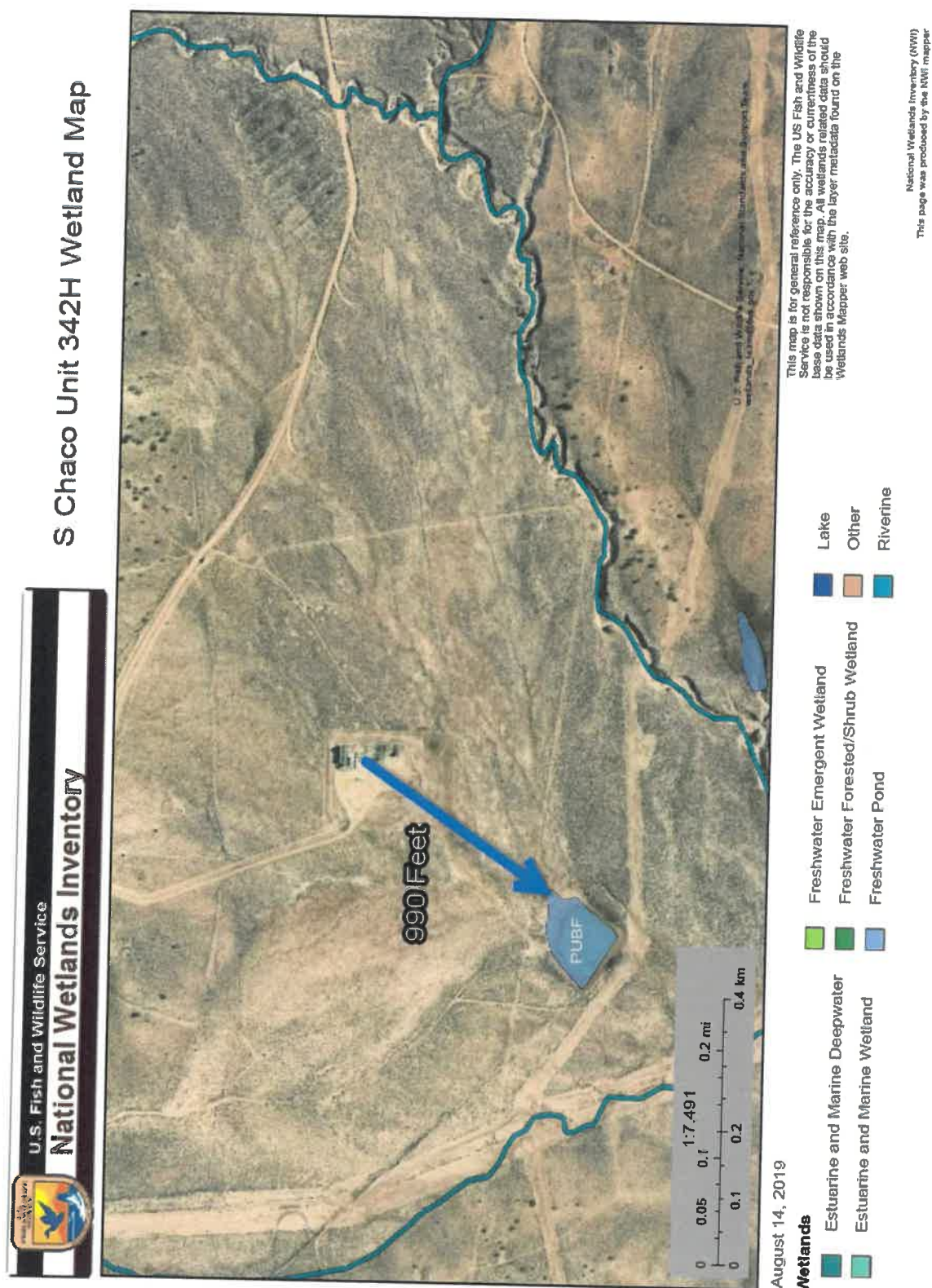














Legend

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

Without Base Flood Elevation (BFE)
Zone A, V, AS9

With BFE or Depth
Zone AE, AO, AH, VE, AR

Regulatory Floodway

SPECIAL FLOOD HAZARD AREAS

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with draining areas of less than one square mile
Zone X

Future Conditions 1% Annual Chance Flood Hazard
Zone X

Area with Reduced Flood Risk due to Levee, See Notes, Zone X

Area with Flood Risk due to Levee
Zone D

OTHER AREAS OF FLOOD HAZARD

NO SCREEN

Area of Minimal Flood Hazard
Effective LOMRs

Area of Undetermined Flood Hazard

OTHER AREAS

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

GENERAL STRUCTURES

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/14/2019 at 12:53:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 12/22/2021 9:36:28 AM

Ground Bed Drilling Log

Company: WPX Energy Well: S Chaco UT #346H Date: 9/15/15
 Location: Sec 2 T22N R7W State: NM Rig: Stony #1
 Ground Bed Depth: 360' Water Depth: 120' Diameter: 10"
 Fuel: 98 gal. Latitude: 36.1734975 Longitude: -107.5355842

DEPTH**FORMATION****OTHER**

<u>0-60</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	<u>PVC</u>
<u>60-100</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>100-180</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>180-240</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>240-300</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>300-360</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	

GROUNDWATER DEPTH LOG

Company: WPX Energy			Location:
Probe type:			
Date	Time	Depth	Comments
9-15-15	8am	40'	drilled 40'
	9am	40'	test: No water
	9:30	60'	Drilled 60'
	10:30	60'	test: No water set PVC
	11:45	115'	Drilled to 115'
	1pm	115'	test: No water
	2:15	120'	Drilled to 120 water
9-16-15	7:30	118'	test water @ 118'
	12:30	360'	Finish annular bed



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

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

No records found.

Basin/County Search:

Basin: San Juan

PLSS Search:

Township: 22N **Range:** 07W

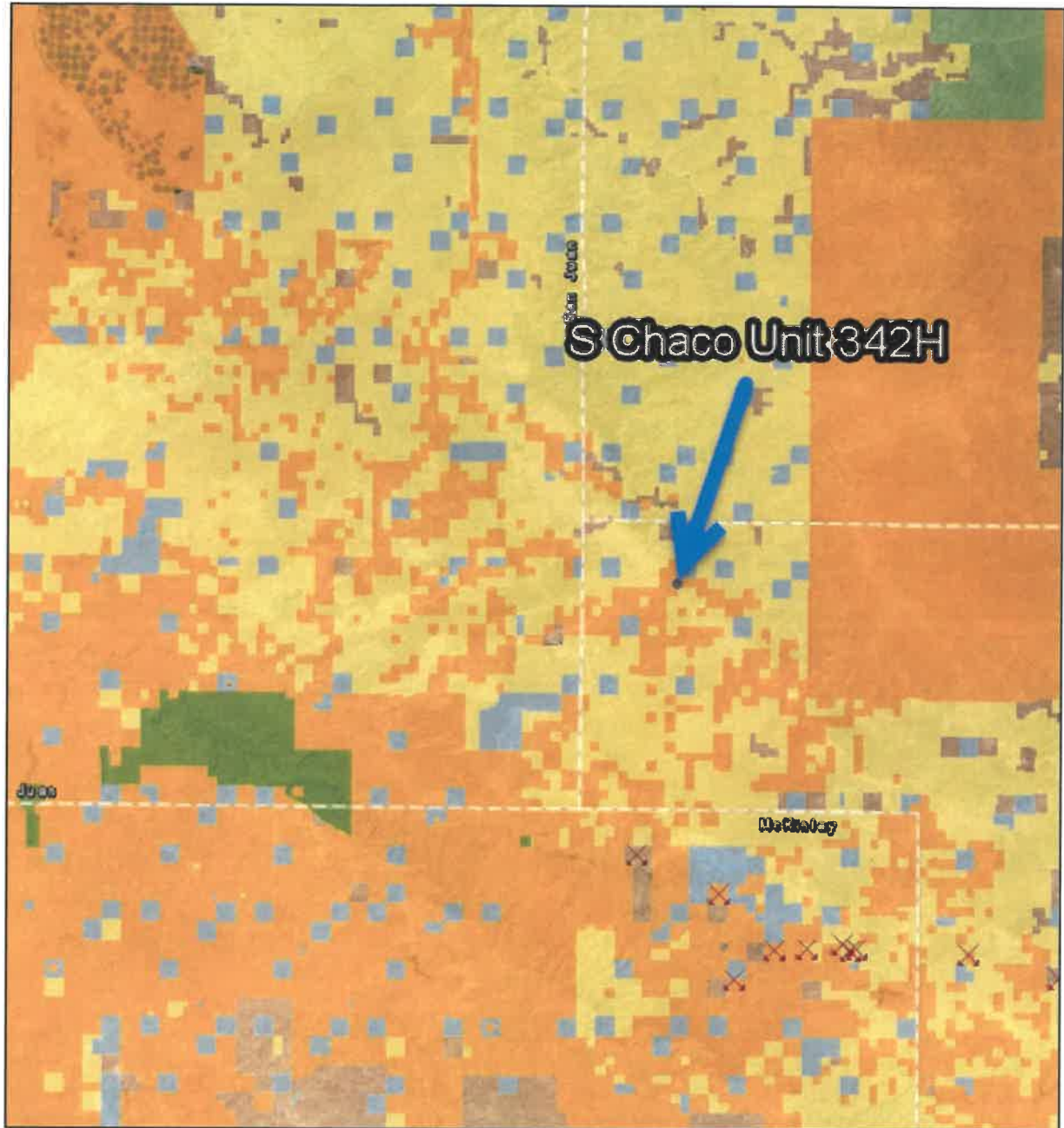
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/19/19 9:26 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Active Mines in New Mexico



8/19/2019 9:29:22 AM

Registered Mines

X Humate

1:577,791
0 4 8 16 mi
0 5 10 20 km

Esri, HERE, Garmin, U.S. Bureau of Land Management - New Mexico State Office, Earthstar Geographics



ANALYTICAL REPORT

August 14, 2019

Enduring Resources

Sample Delivery Group: L1128003
Samples Received: 08/13/2019
Project Number:
Description: S. Chaco 342H

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 Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

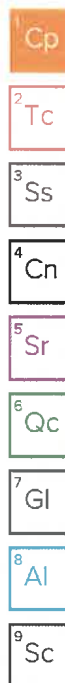


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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BORE HOLE #1 0-6" L1128003-01 Solid

Collected by
Chad SnellCollected date/time
08/12/19 09:55Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327705	1	08/13/19 15:05	08/13/19 15:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 22:54	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:05	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BORE HOLE #1 2.5" L1128003-02 Solid

Collected by
Chad SnellCollected date/time
08/12/19 10:05Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327705	1	08/13/19 15:05	08/13/19 15:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:02	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:20	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BORE HOLE #2 0-6" L1128003-03 Solid

Collected by
Chad SnellCollected date/time
08/12/19 10:20Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:19	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:42	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:34	KME	Mt. Juliet, TN

9 Sc

BORE HOLE #2 2.5" L1128003-04 Solid

Collected by
Chad SnellCollected date/time
08/12/19 10:30Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:28	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:03	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:47	KME	Mt. Juliet, TN

BORE HOLE #3 0-6" L1128003-05 Solid

Collected by
Chad SnellCollected date/time
08/12/19 10:45Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:36	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:23	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:02	KME	Mt. Juliet, TN

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003DATE/TIME:
08/14/19 16:46PAGE:
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BORE HOLE #3 2.5" L1128003-06 Solid

 Collected by
Chad Snell
Collected date/time
08/12/19 10:55
Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:45	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:16	KME	Mt. Juliet, TN

BORE HOLE #3 4' L1128003-07 Solid

 Collected by
Chad Snell
Collected date/time
08/12/19 11:15
Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:54	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:30	KME	Mt. Juliet, TN

BORE HOLE #4 0-6" L1128003-08 Solid

 Collected by
Chad Snell
Collected date/time
08/12/19 11:25
Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 00:45	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:25	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:44	KME	Mt. Juliet, TN

BORE HOLE #4 2.5" L1128003-09 Solid

 Collected by
Chad Snell
Collected date/time
08/12/19 11:40
Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	1	08/13/19 19:45	08/14/19 00:53	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:45	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:59	KME	Mt. Juliet, TN

SURFACE FRONT SEC. 1 L1128003-10 Solid

 Collected by
Chad Snell
Collected date/time
08/12/19 12:05
Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 01:02	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:06	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:13	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SURFACE FRONT SEC. 2 L1128003-11 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:00

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 01:10	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:27	KME	Mt. Juliet, TN

SURFACE BACK SEC. 1 L1128003-12 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:15

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	10	08/13/19 19:45	08/14/19 08:27	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:47	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:42	KME	Mt. Juliet, TN

SURFACE BACK SEC. 2 L1128003-13 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:20

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	10	08/13/19 19:45	08/14/19 08:44	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:07	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:56	KME	Mt. Juliet, TN

SPILL AREA @ 0-6" L1128003-14 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:30

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 02:01	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:28	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 14:11	KME	Mt. Juliet, TN

SPILL AREA @ 5" L1128003-15 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:35

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 02:10	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 14:27	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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CASE NARRATIVE

ONE LAB. NATIONWIDE.



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

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BORE HOLE #1 0-6"

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 09:55

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	08/13/2019 15:13	WG1327705

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1550		63.9	5	08/13/2019 22:54	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00744		0.000639	1	08/13/2019 16:01	WG1327721
TPH (GC/FID) Low Fraction	ND		0.128	1	08/13/2019 16:01	WG1327721
Toluene	ND		0.00639	1	08/13/2019 16:01	WG1327721
Ethylbenzene	ND		0.000639	1	08/13/2019 16:01	WG1327721
Total Xylene	ND		0.00192	1	08/13/2019 16:01	WG1327721
(S) <i>o,o,a</i> -Trifluorotoluene(FID)	92.1		77.0-120		08/13/2019 16:01	WG1327721
(S) <i>o,o,a</i> -Trifluorotoluene(PID)	94.4		72.0-128		08/13/2019 16:01	WG1327721

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.11	1	08/14/2019 11:05	WG1327771
C28-C40 Oil Range	ND		5.11	1	08/14/2019 11:05	WG1327771
(S) <i>o</i> -Terphenyl	119		18.0-148		08/14/2019 11:05	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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BORE HOLE #1 2.5"

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:05

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.3		1	08/13/2019 15:13	WG1327705

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	841	J3	62.3	5	08/13/2019 23:02	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000623	1	08/13/2019 16:22	WG1327721
TPH (GC/FID) Low Fraction	ND		0.125	1	08/13/2019 16:22	WG1327721
Toluene	ND		0.00623	1	08/13/2019 16:22	WG1327721
Ethylbenzene	ND		0.000623	1	08/13/2019 16:22	WG1327721
Total Xylene	ND		0.00187	1	08/13/2019 16:22	WG1327721
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	91.9		77.0-120		08/13/2019 16:22	WG1327721
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	95.0		72.0-128		08/13/2019 16:22	WG1327721

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	ND		4.98	1	08/14/2019 11:20	WG1327771
C28-C40 Oil Range	ND		4.98	1	08/14/2019 11:20	WG1327771
(S) <i>a</i> -Terphenyl	66.8		18.0-148		08/14/2019 11:20	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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BORE HOLE #2 0-6"

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:20

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.2		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3430		62.4	5	08/13/2019 23:19	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0927		0.000624	1	08/13/2019 16:42	WG1327721
TPH (GC/FID) Low Fraction	0.862		0.125	1	08/13/2019 16:42	WG1327721
Toluene	0.0678		0.00624	1	08/13/2019 16:42	WG1327721
Ethylbenzene	0.00516		0.000624	1	08/13/2019 16:42	WG1327721
Total Xylene	0.0329		0.00187	1	08/13/2019 16:42	WG1327721
(S) α,α,α -Trifluorotoluene(FID)	85.7		77.0-120		08/13/2019 16:42	WG1327721
(S) α,α,α -Trifluorotoluene(PID)	93.4		72.0-128		08/13/2019 16:42	WG1327721

5 Sr

6 Qc

7 GI

8 AI

9 Sc

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	ND		4.99	1	08/14/2019 11:34	WG1327771
C28-C40 Oil Range	ND		4.99	1	08/14/2019 11:34	WG1327771
(S) α -Terphenyl	56.3		18.0-148		08/14/2019 11:34	WG1327771

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BORE HOLE #2 2.5"

Collected date/time: 08/12/19 10:30

SAMPLE RESULTS - 04

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1160		62.5	5	08/13/2019 23:28	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0209		0.000625	1	08/13/2019 17:03	WG1327721
TPH (GC/FID) Low Fraction	0.888		0.125	1	08/13/2019 17:03	WG1327721
Toluene	0.00780		0.00625	1	08/13/2019 17:03	WG1327721
Ethylbenzene	0.00177	B	0.000625	1	08/13/2019 17:03	WG1327721
Total Xylene	0.0137	B	0.00187	1	08/13/2019 17:03	WG1327721
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	89.0		77.0-120		08/13/2019 17:03	WG1327721
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	92.2		72.0-128		08/13/2019 17:03	WG1327721

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	ND		5.00	1	08/14/2019 11:47	WG1327771
C28-C40 Oil Range	ND		5.00	1	08/14/2019 11:47	WG1327771
(S) <i>o</i> -Terphenyl	81.7		18.0-148		08/14/2019 11:47	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

BORE HOLE #3 0-6"

Collected date/time: 08/12/19 10:45

SAMPLE RESULTS - 05

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1350		61.2	5	08/13/2019 23:36	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0176		0.000612	1	08/13/2019 17:23	WG1327721
TPH (GC/FID) Low Fraction	0.276	<u>B</u>	0.122	1	08/13/2019 17:23	WG1327721
Toluene	0.00653		0.00612	1	08/13/2019 17:23	WG1327721
Ethylbenzene	ND		0.000612	1	08/13/2019 17:23	WG1327721
Total Xylene	ND		0.00184	1	08/13/2019 17:23	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	88.8		77.0-120		08/13/2019 17:23	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	92.7		72.0-128		08/13/2019 17:23	WG1327721

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	ND		4.90	1	08/14/2019 12:02	WG1327771
C28-C40 Oil Range	ND		4.90	1	08/14/2019 12:02	WG1327771
(S) o-Terphenyl	73.9		18.0-148		08/14/2019 12:02	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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BORE HOLE #3 2.5"

Collected date/time: 08/12/19 10:55

SAMPLE RESULTS - 06

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	998		60.1	5	08/13/2019 23:45	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00765		0.000601	1	08/13/2019 17:44	WG1327721
TPH (GC/FID) Low Fraction	ND		0.120	1	08/13/2019 17:44	WG1327721
Toluene	ND		0.00601	1	08/13/2019 17:44	WG1327721
Ethylbenzene	ND		0.000601	1	08/13/2019 17:44	WG1327721
Total Xylene	ND		0.00180	1	08/13/2019 17:44	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	92.0		77.0-120		08/13/2019 17:44	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.6		72.0-128		08/13/2019 17:44	WG1327721

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	ND		4.81	1	08/14/2019 12:16	WG1327771
C28-C40 Oil Range	ND		4.81	1	08/14/2019 12:16	WG1327771
(S) o-Terphenyl	60.0		18.0-148		08/14/2019 12:16	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

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BORE HOLE #3 4'

Collected date/time: 08/12/19 11:15

SAMPLE RESULTS - 07

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.8		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1210		61.9	5	08/13/2019 23:54	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00650		0.000619	1	08/13/2019 18:04	WG1327721
TPH (GC/FID) Low Fraction	ND		0.124	1	08/13/2019 18:04	WG1327721
Toluene	ND		0.00619	1	08/13/2019 18:04	WG1327721
Ethylbenzene	ND		0.000619	1	08/13/2019 18:04	WG1327721
Total Xylene	ND		0.00186	1	08/13/2019 18:04	WG1327721
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	91.7		77.0-120		08/13/2019 18:04	WG1327721
(S) <i>α,α,α</i> -Trifluorotoluene(PID)	94.3		72.0-128		08/13/2019 18:04	WG1327721

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	ND		4.95	1	08/14/2019 12:30	WG1327771
C28-C40 Oil Range	ND		4.95	1	08/14/2019 12:30	WG1327771
(S) <i>α</i> -Terphenyl	75.2		18.0-148		08/14/2019 12:30	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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BORE HOLE #4 0-6"

Collected date/time: 08/12/19 11:25

SAMPLE RESULTS - 08

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.7		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2810		60.5	5	08/14/2019 00:45	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0197		0.000605	1	08/13/2019 18:25	WG1327721
TPH (GC/FID) Low Fraction	0.230	<u>B</u>	0.121	1	08/13/2019 18:25	WG1327721
Toluene	0.0155		0.00605	1	08/13/2019 18:25	WG1327721
Ethylbenzene	0.00157	<u>B</u>	0.000605	1	08/13/2019 18:25	WG1327721
Total Xylene	0.00989	<u>B</u>	0.00181	1	08/13/2019 18:25	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	89.7		77.0-120		08/13/2019 18:25	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	92.3		72.0-128		08/13/2019 18:25	WG1327721

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	ND		4.84	1	08/14/2019 12:44	WG1327771
C28-C40 Oil Range	ND		4.84	1	08/14/2019 12:44	WG1327771
(S) o-Terphenyl	63.8		18.0-148		08/14/2019 12:44	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

BORE HOLE #4 2.5"

Collected date/time: 08/12/19 11:40

SAMPLE RESULTS - 09

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.4		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	511		13.4	1	08/14/2019 00:53	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00596		0.000672	1	08/13/2019 18:45	WG1327721
TPH (GC/FID) Low Fraction	1.33		0.134	1	08/13/2019 18:45	WG1327721
Toluene	ND		0.00672	1	08/13/2019 18:45	WG1327721
Ethylbenzene	ND		0.000672	1	08/13/2019 18:45	WG1327721
Total Xylene	0.0180		0.00202	1	08/13/2019 18:45	WG1327721
(S) <i>o,o,a</i> -Trifluorotoluene(FID)	88.5		77.0-120		08/13/2019 18:45	WG1327721
(S) <i>o,o,a</i> -Trifluorotoluene(PID)	92.5		72.0-128		08/13/2019 18:45	WG1327721

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.37	1	08/14/2019 12:59	WG1327771
C28-C40 Oil Range	ND		5.37	1	08/14/2019 12:59	WG1327771
(S) <i>o</i> -Terphenyl	65.6		18.0-148		08/14/2019 12:59	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

SURFACE FRONT SEC. 1

SAMPLE RESULTS - 10

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:05

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3670		55.9	5	08/14/2019 01:02	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000559	1	08/13/2019 19:06	WG1327721
TPH (GC/FID) Low Fraction	ND		0.112	1	08/13/2019 19:06	WG1327721
Toluene	ND		0.00559	1	08/13/2019 19:06	WG1327721
Ethylbenzene	ND		0.000559	1	08/13/2019 19:06	WG1327721
Total Xylene	ND		0.00168	1	08/13/2019 19:06	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	91.3		77.0-120		08/13/2019 19:06	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.9		72.0-128		08/13/2019 19:06	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.47	1	08/14/2019 13:13	WG1327771
C28-C40 Oil Range	ND		4.47	1	08/14/2019 13:13	WG1327771
(S) o-Terphenyl	67.8		18.0-148		08/14/2019 13:13	WG1327771

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SURFACE FRONT SEC. 2

SAMPLE RESULTS - 11

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:00

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3230		58.6	5	08/14/2019 01:10	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000586	1	08/13/2019 19:26	WG1327721
TPH (GC/FID) Low Fraction	ND		0.117	1	08/13/2019 19:26	WG1327721
Toluene	ND		0.00586	1	08/13/2019 19:26	WG1327721
Ethylbenzene	ND		0.000586	1	08/13/2019 19:26	WG1327721
Total Xylene	ND		0.00176	1	08/13/2019 19:26	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	91.7		77.0-120		08/13/2019 19:26	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.6		72.0-128		08/13/2019 19:26	WG1327721

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.69	1	08/14/2019 13:27	WG1327771
C28-C40 Oil Range	ND		4.69	1	08/14/2019 13:27	WG1327771
(S) o-Terphenyl	72.3		18.0-148		08/14/2019 13:27	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SURFACE BACK SEC. 1

SAMPLE RESULTS - 12

ONE LAB, NATIONWIDE.



Collected date/time: 08/12/19 12:15

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	08/13/2019 15:04	WG1327706

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	7570		128	10	08/14/2019 08:27	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00996		0.000639	1	08/13/2019 19:47	WG1327721
TPH (GC/FID) Low Fraction	0.530		0.128	1	08/13/2019 19:47	WG1327721
Toluene	0.0103		0.00639	1	08/13/2019 19:47	WG1327721
Ethylbenzene	0.000919	B	0.000639	1	08/13/2019 19:47	WG1327721
Total Xylene	0.0308		0.00192	1	08/13/2019 19:47	WG1327721
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	89.1		77.0-120		08/13/2019 19:47	WG1327721
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(PID)	91.9		72.0-128		08/13/2019 19:47	WG1327721

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	ND		5.11	1	08/14/2019 13:42	WG1327771
C28-C40 Oil Range	ND		5.11	1	08/14/2019 13:42	WG1327771
(S) <i>o</i> -Terphenyl	61.7		18.0-148		08/14/2019 13:42	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SURFACE BACK SEC. 2

SAMPLE RESULTS - 13

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:20

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.0		1	08/14/2019 08:52	WG1327958

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	6850		122	10	08/14/2019 08:44	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000610	1	08/13/2019 20:07	WG1327721
TPH (GC/FID) Low Fraction	ND		0.122	1	08/13/2019 20:07	WG1327721
Toluene	ND		0.00610	1	08/13/2019 20:07	WG1327721
Ethylbenzene	ND		0.000610	1	08/13/2019 20:07	WG1327721
Total Xylene	ND		0.00183	1	08/13/2019 20:07	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	92.1		77.0-120		08/13/2019 20:07	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	95.7		72.0-128		08/13/2019 20:07	WG1327721

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.88	1	08/14/2019 13:56	WG1327771
C28-C40 Oil Range	8.52		4.88	1	08/14/2019 13:56	WG1327771
(S) o-Terphenyl	63.7		18.0-148		08/14/2019 13:56	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SPILL AREA @ 0-6"

Collected date/time: 08/12/19 12:30

SAMPLE RESULTS - 14

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.6		1	08/14/2019 08:52	WG1327958

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1650		62.8	5	08/14/2019 02:01	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0548		0.000628	1	08/13/2019 20:28	WG1327721
TPH (GC/FID) Low Fraction	5.37		0.126	1	08/13/2019 20:28	WG1327721
Toluene	0.0693		0.00628	1	08/13/2019 20:28	WG1327721
Ethylbenzene	0.0188		0.000628	1	08/13/2019 20:28	WG1327721
Total Xylene	0.143		0.00188	1	08/13/2019 20:28	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	82.4		77.0-120		08/13/2019 20:28	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	89.0		72.0-128		08/13/2019 20:28	WG1327721

5 Sr

6 Qc

7 GI

8 AI

9 Sc

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	8.28		5.02	1	08/14/2019 14:11	WG1327771
C28-C40 Oil Range	5.16		5.02	1	08/14/2019 14:11	WG1327771
(S) o-Terphenyl	59.3		18.0-148		08/14/2019 14:11	WG1327771

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SPILL AREA @ 5"

Collected date/time: 08/12/19 12:35

SAMPLE RESULTS - 15

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.9		1	08/14/2019 08:52	WG1327958

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3130		65.9	5	08/14/2019 02:10	WG1327636

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0916		0.000659	1	08/13/2019 20:48	WG1327721
TPH (GC/FID) Low Fraction	10.5		0.132	1	08/13/2019 20:48	WG1327721
Toluene	0.145		0.00659	1	08/13/2019 20:48	WG1327721
Ethylbenzene	0.0472		0.000659	1	08/13/2019 20:48	WG1327721
Total Xylene	0.318		0.00198	1	08/13/2019 20:48	WG1327721
(S) <i>o,o</i> -Trifluorotoluene(FID)	79.0		77.0-120		08/13/2019 20:48	WG1327721
(S) <i>o,o</i> -Trifluorotoluene(PID)	90.3		72.0-128		08/13/2019 20:48	WG1327721

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	6.52		5.27	1	08/14/2019 14:27	WG1327771
C28-C40 Oil Range	ND		5.27	1	08/14/2019 14:27	WG1327771
(S) <i>o</i> -Terphenyl	81.2		18.0-148		08/14/2019 14:27	WG1327771

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1327705

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY[L1128003-01.02](#)

ONE LAB. NATIONWIDE.

**Method Blank (MB)**

(MB) R3440210-1 08/13/19 15:13

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

L1127978-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1127978-01 08/13/19 15:13 - (DUP) R3440210-3 08/13/19 15:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	87.8	86.4	1	1.57		10

Laboratory Control Sample (LCS)

(LCS) R3440210-2 08/13/19 15:13

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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WG1327706

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

**Method Blank (MB)**

(MB) R3440208-1 08/13/19 15:04

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

L1128003-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-10 08/13/19 15:04 • (DUP) R3440208-3 08/13/19 15:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	89.5	88.2	1	1.51		10

Laboratory Control Sample (LCS)

(LCS) R3440208-2 08/13/19 15:04

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1128003-13,14,15](#)

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) R3440412-1 08/14/19 08:52

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

L1128003-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-14 08/14/19 08:52 • (DUP) R3440412-3 08/14/19 08:52

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	79.6	79.8	1	0.264		10

Laboratory Control Sample (LCS)

(LCS) R3440412-2 08/14/19 08:52

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

ONE LAB NATIONWIDE.



Method Blank (MB)

(MB) R3440214-1 08/13/19 21:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	7.92	J	0.795	10.0

L1128003-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-02 08/13/19 23:02 • (DUP) R3440214-3 08/13/19 23:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	841	1000	5	17.5	J3	15

L1128003-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-12 08/14/19 08:27 • (DUP) R3440214-7 08/14/19 08:35

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7570	7620	10	0.629		15

Laboratory Control Sample (LCS)

(LCS) R3440214-2 08/13/19 21:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	195	97.7	80.0-120	

L1128003-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1128003-08 08/14/19 00:19 • (MS) R3440214-4 08/14/19 00:28 • (MSD) R3440214-5 08/14/19 00:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	605	2910	3860	3420	156	83.3	1	80.0-120	E V	E	12.1	15

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Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG1327721

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

QUALITY CONTROL SUMMARY

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3440174-2 08/13/19 12:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000271	J	0.000150	0.00500
Ethylbenzene	0.000203	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0373	J	0.0217	0.100
(S)				
a,a,a-Trifluorotoluene(FID)	86.7			77.0-120
(S)				
a,a,a-Trifluorotoluene(PID)	87.3			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3440174-1 08/13/19 10:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.02	91.3	72.0-127	
(S)					
a,a,a-Trifluorotoluene(FID)			102	77.0-120	
(S)					
a,a,a-Trifluorotoluene(PID)			99.9	72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3440174-3 08/13/19 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0445	88.9	76.0-121	
Toluene	0.0500	0.0427	85.5	80.0-120	
Ethylbenzene	0.0500	0.0454	90.8	80.0-124	
Total Xylene	0.150	0.139	92.5	37.0-160	
(S)					
a,a,a-Trifluorotoluene(FID)			93.4	77.0-120	
(S)					
a,a,a-Trifluorotoluene(PID)			94.8	72.0-128	

ACCOUNT:
Enduring Resources

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

WG1327721

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

L1126081-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1126081-11 08/13/19 21:09 • (MS) R3440174-4 08/13/19 21:50 • (MSD) R3440174-5 08/13/19 22:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.688	0.754	54.5	59.8	25	10.0-155			9.18	32
Toluene	0.0500	ND	0.693	0.762	55.0	60.6	25	10.0-160			9.52	34
Ethylbenzene	0.0500	ND	0.789	0.846	62.9	67.4	25	10.0-160			6.95	32
Total Xylene	0.150	ND	2.35	2.56	62.0	67.8	25	10.0-160	J6	J6	8.76	32
(S) a,a,a-Trifluorotoluene(FID)					92.7	93.3		77.0-120				
(S) a,a,a-Trifluorotoluene(FID)					94.6	95.7		72.0-128				

ACCOUNT:
Enduring Resources

PROJECT:

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WG1327771

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3440461-1 08/14/19 10:38

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	66.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3440461-2 08/14/19 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
(S) o-Terphenyl			85.6	18.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:
Enduring Resources

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GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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 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.



ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

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200 Energy Court
Farmington, NM 87401

Report to: James McDaniel

Project

Description: S. Green 342H

Phone: 505-636-9731

Fax:

Collected by (print):

Collected by (signature):

Immediately
Packed on Ice N Y K

Billing Information:

James McDaniel
200 Energy Court
Farmington, NM 87401

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____



12065 Lebanon Rd
Mount Juliet, TN 37122

Phone: 615-758-5858
Phone: 600-767-5859
Fax: 615-758-5859



LN 117 X003

B241

Actuym: **ENDRESANM**

Template.

Prelogin

TSR: 288 - Daphne Richards

2001

Shipped Via:

Remarks	Sample # (Lab only)
---------	---------------------

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Conc	W	B	Remarks	Sample # (Lab only)
Bore Hole #1 0-6"		SS	0-6"	8-12-19	9:55am	1	X	X		-01
Bore Hole #1 2.5"		SS	2.5"	8-12-19	10:05am	1	X	X		-02
Bore Hole #2 0-6"		SS	0-6"	8-12-19	10:20am	1	X	X		-03
Bore Hole #2 2.5"		SS	2.5"	8-12-19	10:30am	1	X	X		-04
Bore Hole #3 0-6"		SS	0-6"		10:45am	1	X	X		-05
Bore Hole #3 2.5"		SS	2.5"		10:55am	1	X	X		-06
Bore Hole #3 4'		SS	4'		11:15am	1	X	X		-07
Bore Hole #4 0-6"		SS	0-6"		11:25am	1	X	X		-08
Bore Hole #4 2.5"		SS	2.5"		11:40am	1	X	X		-09
Surface Front Sec. 1	Comp.	SS	0-6"		12:05pm	1	X	X		-10
<p>* Matrix: SS - Soil A/R - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other</p> <p>Remarks: NO DETECTABLE LEAD</p> <p>Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier</p> <p>Tracking #</p> <p>Relinquished by: (Signature) [Signature] Date: 8-12-19 Time: 4:00pm</p> <p>Relinquished by: (Signature) Date: Time:</p> <p>Relinquished by: (Signature) Date: Time:</p> <p>Flow _____ Temp _____ Flow _____ Other _____</p> <p>Sample Receipt Checklist: COC Seal Present/Intact: <input checked="" type="checkbox"/> COC Signed/Accurate: <input checked="" type="checkbox"/> Bottles arrive intact: <input checked="" type="checkbox"/> Correct bottles used: <input checked="" type="checkbox"/> Sufficient volume sent: <input checked="" type="checkbox"/> if Applicable VDA zero headspace: <input checked="" type="checkbox"/> Preservation Correct/Checked: <input checked="" type="checkbox"/></p> <p>Trio Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / HOH YBR</p> <p>Temp: AS/16 Bottles Received: 9310-023 15</p> <p>Received by: (Signature) [Signature] Date: 8/13/19 Time: 8:45</p> <p>Received for lab by: (Signature) [Signature] Date: 8/13/19 Time: 8:45</p> <p>Hold: Condition: NCH / OK</p>										

. Released to Imaging: 12/22/2021 9:36:28 AM



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/22/2019

Job Number: 17065-0017

Work Order: P910134

Project Name/Location: S. Chaco 342H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 10/24/19

Walter Hinchman, Laboratory Director

Supplement to analytical report generated on: 10/24/19 12:41 pm



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Front Sec 1	P910134-01A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 2	P910134-02A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 3	P910134-03A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 4	P910134-04A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 5	P910134-05A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 6	P910134-06A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Under Meter	P910134-07A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 2 South	P910134-08A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 2 North	P910134-09A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 1 South	P910134-10A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 1 North	P910134-11A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 1	P910134-12A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 2	P910134-13A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 3	P910134-14A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 4	P910134-15A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 5	P910134-16A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 6	P910134-17A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 7	P910134-18A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 8	P910134-19A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 9	P910134-20A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 10	P910134-21A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 1	P910134-22A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 2	P910134-23A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 3	P910134-24A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 1	P910134-25A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 2	P910134-26A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 3	P910134-27A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.

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24 Hour Emergency Response Phone (800) 362-1879

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---------------------------------------------------------------------------	------------------------------------------------------------------------------------------	-----------------------------

**Front Sec 1
P910134-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	419	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 2
P910134-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		97.5 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.0 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	936	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 3
P910134-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	619	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 4
P910134-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	172	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 5
P910134-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	147	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 6
P910134-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	224	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**Under Meter
P910134-07 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2610	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
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**Hole 2 South
P910134-08 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1210	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**Hole 2 North
P910134-09 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2190	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**Hole 1 South
P910134-10 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		97.6 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3360	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Hole 1 North
P910134-11 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		98.1 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	4100	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 1
P910134-12 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	121	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 2
P910134-13 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	158	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 3
P910134-14 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	290	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
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Back Sec 4
P910134-15 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	165	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
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Back Sec 5
P910134-16 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1670	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

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Back Sec 6
P910134-17 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1770	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
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Back Sec 7
P910134-18 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	135	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
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**Back Sec 8
P910134-19 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2340	40.0	mg/kg	2	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

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Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 9
P910134-20 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2220	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
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Back Sec 10
P910134-21 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	847	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**East Wall 1
P910134-22 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	506	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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**East Wall 2
P910134-23 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	523	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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**East Wall 3
P910134-24 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

West Wall 1
P910134-25 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	39.4	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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**West Wall 2
P910134-26 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1290	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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**West Wall 3
P910134-27 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	7350	100	mg/kg	5	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943011 - Purge and Trap EPA 5030A

Blank (1943011-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	ND	0.0250	mg/kg
Toluene	ND	0.0250	"
Ethylbenzene	ND	0.0250	"
p,m-Xylene	ND	0.0500	"
o-Xylene	ND	0.0250	"
Total Xylenes	ND	0.0250	"

Surrogate: 4-Bromochlorobenzene-PID 8.28 " 8.00 104 50-150

LCS (1943011-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.62	0.0250	mg/kg	5.00	92.4	70-130
Toluene	4.78	0.0250	"	5.00	95.7	70-130
Ethylbenzene	4.71	0.0250	"	5.00	94.3	70-130
p,m-Xylene	9.40	0.0500	"	10.0	94.0	70-130
o-Xylene	4.73	0.0250	"	5.00	94.6	70-130
Total Xylenes	14.1	0.0250	"	15.0	94.2	70-130

Surrogate: 4-Bromochlorobenzene-PID 8.35 " 8.00 104 50-150

Matrix Spike (1943011-MS1)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.75	0.0250	mg/kg	5.00	ND	95.0	54.3-133
Toluene	4.91	0.0250	"	5.00	ND	98.3	61.4-130
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133
p,m-Xylene	9.70	0.0500	"	10.0	ND	97.0	63.3-131
o-Xylene	4.88	0.0250	"	5.00	ND	97.6	63.3-131
Total Xylenes	14.6	0.0250	"	15.0	ND	97.2	63.3-131

Surrogate: 4-Bromochlorobenzene-PID 8.41 " 8.00 105 50-150

Matrix Spike Dup (1943011-MSD1)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.64	0.0250	mg/kg	5.00	ND	92.8	54.3-133	2.40	20
Toluene	4.84	0.0250	"	5.00	ND	96.8	61.4-130	1.51	20
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.1	61.4-133	1.31	20
p,m-Xylene	9.57	0.0500	"	10.0	ND	95.7	63.3-131	1.31	20
o-Xylene	4.81	0.0250	"	5.00	ND	96.3	63.3-131	1.34	20
Total Xylenes	14.4	0.0250	"	15.0	ND	95.9	63.3-131	1.32	20

Surrogate: 4-Bromochlorobenzene-PID 8.39 " 8.00 105 50-150

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943014 - Purge and Trap EPA 5030A

Blank (1943014-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.39		"	8.00		105	50-150			

LCS (1943014-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.77	0.0250	mg/kg	5.00		95.4	70-130			
Toluene	4.91	0.0250	"	5.00		98.3	70-130			
Ethylbenzene	4.85	0.0250	"	5.00		97.1	70-130			
p,m-Xylene	9.66	0.0500	"	10.0		96.6	70-130			
o-Xylene	4.88	0.0250	"	5.00		97.5	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.51		"	8.00		106	50-150			

Matrix Spike (1943014-MS1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.73	0.0250	mg/kg	5.00	ND	94.7	54.3-133			
Toluene	4.88	0.0250	"	5.00	ND	97.6	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.3	61.4-133			
p,m-Xylene	9.57	0.0500	"	10.0	ND	95.7	63.3-131			
o-Xylene	4.82	0.0250	"	5.00	ND	96.5	63.3-131			
Total Xylenes	14.4	0.0250	"	15.0	ND	96.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.38		"	8.00		105	50-150			

Matrix Spike Dup (1943014-MSD1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.76	0.0250	mg/kg	5.00	ND	95.3	54.3-133	0.604	20	
Toluene	4.89	0.0250	"	5.00	ND	97.7	61.4-130	0.153	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	97.0	61.4-133	0.755	20	
p,m-Xylene	9.64	0.0500	"	10.0	ND	96.4	63.3-131	0.779	20	
o-Xylene	4.85	0.0250	"	5.00	ND	97.0	63.3-131	0.564	20	
Total Xylenes	14.5	0.0250	"	15.0	ND	96.6	63.3-131	0.707	20	
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			

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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943015 - DRO Extraction EPA 3570										
Blank (1943015-BLK1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58.0		"	50.0		116	50-200			
LCS (1943015-BS1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	431	25.0	mg/kg	500		86.3	38-132			
Surrogate: n-Nonane	49.7		"	50.0		99.4	50-200			
Matrix Spike (1943015-MS1)				Source: P910134-01	Prepared: 10/22/19 1 Analyzed: 10/23/19 0					
Diesel Range Organics (C10-C28)	516	25.0	mg/kg	500	ND	103	38-132			
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			
Matrix Spike Dup (1943015-MSD1)				Source: P910134-01	Prepared: 10/22/19 1 Analyzed: 10/23/19 0					
Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500	ND	106	38-132	2.63	20	
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

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511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943016 - DRO Extraction EPA 3570										
Blank (1943016-BLK1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.8		"	50.0		110	50-200			
LCS (1943016-BS1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	514	25.0	mg/kg	500		103	38-132			
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			
Matrix Spike (1943016-MS1)				Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Diesel Range Organics (C10-C28)	538	25.0	mg/kg	500	ND	108	38-132			
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike Dup (1943016-MSD1)				Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Diesel Range Organics (C10-C28)	495	25.0	mg/kg	500	ND	99.0	38-132	8.31	20	
Surrogate: n-Nonane	55.5		"	50.0		111	50-200			

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943011 - Purge and Trap EPA 5030A

Blank (1943011-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

LCS (1943011-BS2)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		"	8.00		92.9	50-150			

Matrix Spike (1943011-MS2)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		"	8.00		92.9	50-150			

Matrix Spike Dup (1943011-MSD2)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0	ND	94.3	70-130	2.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---------------------------------------------------------------------------	------------------------------------------------------------------------------------------	-----------------------------

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943014 - Purge and Trap EPA 5030A

Blank (1943014-BLK1)		Prepared: 10/22/19 1 Analyzed: 10/23/19 0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		"	8.00		90.5	50-150			
LCS (1943014-BS2)		Prepared: 10/22/19 1 Analyzed: 10/23/19 0								
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
Matrix Spike (1943014-MS2)		Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 1						
Gasoline Range Organics (C6-C10)	45.6	20.0	mg/kg	50.0	ND	91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		"	8.00		91.4	50-150			
Matrix Spike Dup (1943014-MSD2)		Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 1						
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.2	70-130	1.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		"	8.00		91.6	50-150			

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Enduring Resources, LLC	Project Name:	S. Chaco 342H	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	Chad Snell	10/24/19 15:20

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943012 - Anion Extraction EPA 300.0/9056A										
Blank (1943012-BLK1)				Prepared & Analyzed: 10/22/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1943012-BS1)				Prepared & Analyzed: 10/22/19 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1943012-MS1)				Source: P910134-01 Prepared & Analyzed: 10/22/19 1						
Chloride	558	20.0	mg/kg	250	419	55.7	80-120			M2
Matrix Spike Dup (1943012-MSD1)				Source: P910134-01 Prepared & Analyzed: 10/22/19 1						
Chloride	662	20.0	mg/kg	250	419	97.1	80-120	17.0	20	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943013 - Anion Extraction EPA 300.0/9056A										
Blank (1943013-BLK1)										
Chloride	ND	20.0	mg/kg							Prepared & Analyzed: 10/22/19 1
LCS (1943013-BS1)										
Chloride	271	20.0	mg/kg	250		109	90-110			Prepared & Analyzed: 10/22/19 1
Matrix Spike (1943013-MS1)										
Chloride	1120	20.0	mg/kg	250	847	110	80-120			Source: P910134-21 Prepared & Analyzed: 10/22/19 1
Matrix Spike Dup (1943013-MSD1)										
Chloride	1110	20.0	mg/kg	250	847	107	80-120	0.833	20	Source: P910134-21 Prepared & Analyzed: 10/22/19 1

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Enduring Resources, LLC	Project Name:	S. Chaco 342H	
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	Reported: 10/24/19 15:20

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

1

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Page 38 of 41

Client: <u>Enduring Resources</u> Project: <u>3. Chico 342H</u> Project Manager: <u>Chad Snell</u> Address: <u>700 Energy Court</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0506</u> Email: <u>CSnell@EnduringResources.com</u> <u>jsmedawal@EnduringResources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P910134</u> Job Number <u>17005-0017</u> Analysis and Method: _____ DRD/ORD by 8015 _____ GRD/ORD by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____					TAT 1D <u>X</u> 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM _____ CO _____ UT _____ AZ _____ TX _____ OK _____		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/ORD by 8015	GRD/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks							
10:40am	10-21-19	S	1	Front sec 1	1	X	X	X		X									
10:45			1	Front sec 2	2	X	X	X		X									
10:50			1	Front sec 3	3	X	X	X		X									
10:55			1	Front sec 4	4	X	X	X		X									
11:00			1	Front sec 5	5	X	X	X		X									
11:05			1	Front sec 6	6	X	X	X		X									
11:10			1	under motor	7	X	X	X		X									
11:15			1	Hole 2 South	8	X	X	X		X									
11:20			1	Hole 2 North	9	X	X	X		X									
11:25			1	Hole 1 South	10	X	X	X		X									
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Snell</u> <u>10-22-19</u>												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>(Y) / N</u>													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Client: <u>Enduring Resources</u> Project: <u>8. Chaco 342H</u> Project Manager: <u>Chad Smith</u> Address: <u>200 Energy Court</u> <u>City, State, Zip Farmington, NM 87401</u> Phone: <u>(505) 444-0386</u> Email: <u>CSmith@enduringresources.com</u> <u>imcdevin1@enduringresources.com</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P910134</u> Job Number <u>17065-0017</u> Analysis and Method				TAT 1D <u>X</u> 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State NM _____ CO _____ UT _____ AZ _____ TX _____ OK _____			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8060	Metals 6010	Chloride 300.0	Remarks					
11:30	10-21-19	S	1	Hole 1 North	11	X	X	X		X							
11:35			1	Back Sec 1	12	X	X	X		X							
11:40			1	Back Sec 2	13	X	X	X		X							
11:45			1	Back Sec # 3	14	X	X			X							
11:50			1	Back Sec # 4	15	X	X	X		X							
11:55			1	Back Sec # 5	16	X	X	X		X							
12:00			1	Back Sec # 6	17	X	X	X		X							
12:05			1	Back Sec # 7	18	X	X	X		X							
12:10			1	Back Sec # 8	19	X	X	X		X							
12:15			1	Back Sec 9	20	X	X	X		X							
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Smith 10-22-19</u>												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.					
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>10-22-19</u>		Time <u>8:40am</u>		Received by: (Signature) <u>Ramon Lopez</u>		Date <u>8:40am</u>		Time <u>10/22/19</u>		Received on ice: <u>Y</u> / N					
Relinquished by: (Signature) _____		Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature) _____		Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		AVG Temp °C <u>4</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

Client: <u>End using Resources</u> Project: <u>9. Chaco 342H</u> Project Manager: <u>Chad Small</u> Address: <u>200 Airport Court</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>chadsmall@endusingresources.com</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P910134</u> Job Number <u>17065-0017</u> Analysis and Method DRO/DRO by 8015 <input checked="" type="checkbox"/> <input type="checkbox"/> GRO/DRO by 8015 <input checked="" type="checkbox"/> <input type="checkbox"/> BTEX by 8021 <input checked="" type="checkbox"/> <input type="checkbox"/> VOC by 8260 <input checked="" type="checkbox"/> <input type="checkbox"/> Metals 6010 <input checked="" type="checkbox"/> <input type="checkbox"/> Chloride 300.0 <input checked="" type="checkbox"/> <input type="checkbox"/>				EPA Program TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/> Remarks			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number										
12:20	10-21-19	S	1	Back Sec 10	21	X	X	X		X					
12:25			1	East wall 1	22	X	X	X		X					
12:30			1	East wall 2	23	X	X	X		X					
12:35			1	East wall 3	24	X	X	X		X					
12:40			1	West wall 1	25	X	X	X		X					
12:45			1	West wall 2	26	X	X	X		X					
12:50			1	West wall 3	27	X	X	X		X					
Additional Instructions:															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Small</u> <u>10-22-19</u>															
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.															
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>10-22-19</u>		Time <u>8:40am</u>		Received by: (Signature) <u>Ramon Lopez</u>		Date <u>10/22/19</u>		Time <u>8:40</u>		Lab Use Only Received on ice: <u>Y</u> / N			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 3/16/2020

Job Number: 17065-0017

Work Order: P003085

Project Name/Location: S. Chaco 342H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/18/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH 5 @ 6"-1'	P003085-01A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 5 @ 4'	P003085-02A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 6 @ 6"-1'	P003085-03A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 6 @ 4'	P003085-04A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 7 @ 6"-1'	P003085-05A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 7 @ 4'	P003085-06A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 8 @ 6"-1'	P003085-07A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 8 @ 4'	P003085-08A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 9 @ 6"-1'	P003085-09A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 9 @ 4'	P003085-10A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 10 @ 6"-1'	P003085-11A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 10 @ 4'	P003085-12A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 11 @ 6"-1'	P003085-13A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 11 @ 4'	P003085-14A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 12 @ 6"-1'	P003085-15A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
BH 12 @ 4'	P003085-16A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 5 @ 6"-1'
P003085-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 5 @ 4'
P003085-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	568	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 6 @ 6'-1'
P003085-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	149	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 6 @ 4'
P003085-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	1080	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: James McDaniel	Reported: 03/18/20 08:10
---------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

BH 7 @ 6"-1'
P003085-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	739	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 7 @ 4'
P003085-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	798	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 8 @ 6"-1'
P003085-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 8 @ 4'
P003085-08 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 9 @ 6"-1'
P003085-09 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC	Project Name:	S. Chaco 342H	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	03/18/20 08:10

BH 9 @ 4'
P003085-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	51.0	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 10 @ 6'-1'
P003085-11 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	761	20.0	mg/kg	1	2012009	03/16/20	03/16/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 10 @ 4'
P003085-12 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	760	20.0	mg/kg	1	2012009	03/16/20	03/17/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 11 @ 6"-1'
P003085-13 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	32.7	20.0	mg/kg	1	2012009	03/16/20	03/17/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 11 @ 4'
P003085-14 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	59.8	20.0	mg/kg	1	2012009	03/16/20	03/17/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

**BH 12 @ 6"-1'
P003085-15 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	27.8	20.0	mg/kg	1	2012009	03/16/20	03/17/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

BH 12 @ 4'
P003085-16 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	51.1	20.0	mg/kg	1	2012009	03/16/20	03/17/20	EPA 300.0/9056A	

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Enduring Resources, LLC	Project Name:	S. Chaco 342H	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	03/18/20 08:10

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012009 - Anion Extraction EPA 300.0/9056A										
Blank (2012009-BLK1)										
Chloride	ND	20.0	mg/kg							Prepared & Analyzed: 03/16/20 1
LCS (2012009-BS1)										
Chloride	251	20.0	mg/kg	250		101	90-110			Prepared & Analyzed: 03/16/20 1
Matrix Spike (2012009-MS1)										
Chloride	260	20.0	mg/kg	250	ND	104	80-120			Source: P003085-01 Prepared & Analyzed: 03/16/20 1
Matrix Spike Dup (2012009-MSD1)										
Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.0768	20	Source: P003085-01 Prepared & Analyzed: 03/16/20 1

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/18/20 08:10

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: Enduring Resources
 Project: S Check 342H
 Project Manager: J. McDaniel
 Address: 200 Energy Ct
 City, State, Zip: Farmington, NM 87401
 Phone: 505-636-9731
 Email: j.mcdaniel@enduringresources.com

Report Attention
 Report due by: 3/17/20
 Attention: J. McDaniel, C. Smith
 Address:
 City, State, Zip
 Phone:
 Email: j.mcdaniel@enduringresources.com

Lab Use Only						TAT		EPA Program			
Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA			
P003085		17065-0017		X							
Analysis and Method										State	
								NM	CO	UT	AZ
								TX	OK		
Remarks											

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000								
940	3/16/20	SS	1	BH 5 @ 6"-1'	1					X									
950	3/16/20	SS	1	BH 5 @ 4'	2					X									
10 ¹⁰	3/16/20	SS	1	BH 6 @ 6"-1'	3					X									
10 ²⁰	3/16/20	SS	1	BH 6 @ 4'	4					X									
10 ³⁰	3/16/20	SS	1	BH 7 @ 6"-1'	5					X									
10 ⁴⁰	3/16/20	SS	1	BH 7 @ 4'	6					X									
10 ⁴⁵	3/16/20	SS	1	BH 8 @ 6"-1'	7					X									
11 ⁰⁵	3/16/20	SS	1	BH 8 @ 4'	8					X									

Additional Instructions:

RUSH

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally manipulating the sample location, date, or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	3/16/20	2:15 PM	<u>Rose Lopez</u>	3/16/20	14:15	Received on ice: <u>Y/N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: <u>Enduring Resources</u> Project: <u>Schock 3424</u> Project Manager: _____ Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington, NM</u> Phone: <u>505 1444-0586</u> Email: <u>csnell@enduringresources.com</u> <u>Sweden: oia@enduringresources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P003085</u> Job Number <u>17065-0017</u> Analysis and Method DRD/ORD by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0					TAT 1D 3D		EPA Program RCRA CWA SDWA State NM CO UT AZ TX OK		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/ORD by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	3D	RCRA	CWA	SDWA	Remarks		
9:56	3-16-20	S	1	BH 9 @ 6"-1'	9					X									
10:04			1	BH 9 @ 4'	10					X									
11:25			1	BH 10 @ 6"-1'	11					X									
11:40			1	BH 10 @ 4'	12					X									
11:47			1	BH 11 @ 6"-1'	13					X									
12:02			1	BH 11 @ 4'	14					X									
12:16			1	BH 12 @ 6"-1'	15					X									
12:20			1	BH 12 @ 4'	16					X									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: CS 3-16-20

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 3/19/2020

Job Number: 17065-0017

Work Order: P003102

Project Name/Location: S. Chaco 342H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/23/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH 13 6" -1'	P003102-01A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.
BH 13 4'	P003102-02A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.
BH 14 6"-1'	P003102-03A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.
BH 14 4'	P003102-04A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.
BH 15 6"-1'	P003102-05A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.
BH 15 4'	P003102-06A	Soil	03/19/20	03/19/20	Glass Jar, 4 oz.

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

BH 13 6" -1'
P003102-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	28.4	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

BH 13 4'
P003102-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	690	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

BH 14 6"-1'
P003102-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

BH 14 4'
P003102-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	36.1	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

**BH 15 6"-1'
P003102-05 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

BH 15 4'
P003102-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	59.9	20.0	mg/kg	1	2012030	03/19/20	03/19/20	EPA 300.0/9056A	

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Page 8 of 11



Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012030 - Anion Extraction EPA 300.0/9056A										
Blank (2012030-BLK1)				Prepared & Analyzed: 03/19/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2012030-BS1)				Prepared & Analyzed: 03/19/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2012030-MS1)				Source: P003102-01 Prepared & Analyzed: 03/19/20 1						
Chloride	280	20.0	mg/kg	250	28.4	101	80-120			
Matrix Spike Dup (2012030-MSD1)				Source: P003102-01 Prepared & Analyzed: 03/19/20 1						
Chloride	284	20.0	mg/kg	250	28.4	102	80-120	1.48	20	

QC Summary Report

Comment:

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
03/23/20 15:06

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 3/23/2020

Job Number: 17065-0017

Work Order: P003113

Project Name/Location: S. Chaco 342H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/25/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/25/20 11:15

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH 16@ 6"-1'	P003113-01A	Soil	03/23/20	03/23/20	Glass Jar, 4 oz.
BH 16@ 4'	P003113-02A	Soil	03/23/20	03/23/20	Glass Jar, 4 oz.

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/25/20 11:15

**BH 16@ 6"-1'
P003113-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	42.0	20.0	mg/kg	1	2013003	03/23/20	03/23/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/25/20 11:15

BH 16@ 4'
P003113-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	65.0	20.0	mg/kg	1	2013003	03/23/20	03/23/20	EPA 300.0/9056A	

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/25/20 11:15

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2013003 - Anion Extraction EPA 300.0/9056A										
Blank (2013003-BLK1)				Prepared: 03/23/20 0 Analyzed: 03/23/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2013003-BS1)				Prepared: 03/23/20 0 Analyzed: 03/23/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2013003-MS1)				Source: P003109-01 Prepared: 03/23/20 0 Analyzed: 03/23/20 1						
Chloride	251	20.0	mg/kg	250	ND	100	80-120			
Matrix Spike Dup (2013003-MSD1)				Source: P003109-01 Prepared: 03/23/20 0 Analyzed: 03/23/20 1						
Chloride	253	20.0	mg/kg	250	ND	101	80-120	1.17	20	

QC Summary Report

Comment:

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Denver CO, 80202

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
03/25/20 11:15

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 4853

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 4853
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/22/2021