

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	NRM2025557321
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enduring Resources</b>	OGRID: <b>372286</b>
Contact Name: <b>James McDaniel</b>	Contact Telephone: <b>(505) 636-9731</b>
Contact email: <b>jmcDaniel@enduringresources.com</b>	Incident # (assigned by OCD)
Contact mailing address: <b>200 Energy Court</b>	<b>Farmington, New Mexico 87401</b>

### Location of Release Source

Latitude 36.578597 Longitude -107.772393  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: <b>Marshall A 3</b>	Site Type: <b>Wellsite</b>
Date Release Discovered: <b>7/29/2020</b>	API# (if applicable) <b>30-045-06536</b>

Unit Letter	Section	Township	Range	County
<b>G</b>	<b>15</b>	<b>27N</b>	<b>9W</b>	<b>San Juan</b>

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): <b>UNK</b>	Volume Recovered (bbls): <b>NONE</b>
	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 7/29/2020, BGT closure activities were performed at this location. Samples were collected from beneath the location of the BGT after it was removed, and samples results were above Tale I Standards, confirming that a release had occurred. Excavation was performed, and the spill was remediated. An outline of all remediation activities are detailed in the attached *Remediation Narrative*.

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**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: Ramona Marcus Date: 9/11/2020

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## Site Assessment/Characterization

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

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

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

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

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

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

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Oil Conservation Division

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	
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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: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NRM2025557321
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## Closure

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

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

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

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

Printed Name: James McDaniel Title: HSE Supervisor  
Signature:  Date: 9/9/2020  
email: jmcDaniel@enduringresources.com Telephone: 505-636-9731

### OCD Only

Received by: Ramona Marcus Date: 9/11/2020

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

NRM2025557321

### Marshall A 3 Narrative

**7/29/2020**

BGT Activities occurred at the Marshall A 3 due to an unused BGT. The BGT was removed, and a closure sample was collected beneath the former location of the BGT. The BGT Closure Sample returned results above the Table I standards for this location, confirming that a release had occurred; see *Table I Analytical Results* and the *Sampling Map*. Abiodun Adeloye with the Farmington Field Office of the BLM was on-site to witness sample collection.

**7/31/2020**

Excavation was performed, excavating the former BGT area to extents of 8' x 5' x 2' deep. Impacted soil sent to Envirotech for disposal. Notification was submitted to the BLM, NMOCD and FIMO via email to inform of the date of closure sampling, see *Email Notification Printouts*.

**8/3/2020**

Additional sampling performed on the excavated area. One (1) composite sample was collected from the bottom of the excavation, and one (1) composite sample was collected of the four (4) walls of the excavation. These samples were submitted to Envirotech for analysis. Abiodun Adeloye with the Farmington Field Office of the BLM was on-site to witness sample collection.

**8/10/2020**

Both samples returned results above the Table I Standards for this location, indicating that additional excavation would be required; see attached *Analytical Results* and *Sampling Map*.

**8/11/2020**

Additional excavation occurred at this site, extending the excavated area to extents of 8' x 10' x 5' deep. Notification was submitted to the BLM, NMOCD and FIMO via email to inform of the date of closure sampling, see *Email Notification Printouts*.

**8/13/2020**

Additional sampling was performed on the excavated area. One (1) composite sample was collected from the bottom at 5' deep, and one (1) composite sample was collected of each of the four (4) walls of the excavation. Five (5) total composite samples were collected from the excavation, and were submitted to Envirotech for analysis. Abiodun Adeloye with the Farmington Field Office of the BLM was on-site to witness sample collection.

**8/20/2020**

Analytical result of samples collected on 8/13/2020 indicated that three (3) of the samples collected returned results below the Table I Standards for this location; see attached *Analytical*

*Results and Table I Analytical Results.* Two (2) samples returned results above Table I standards. The composite sample from the South Wall of the excavation, and from the bottom of the excavation both returned results above the 100 mg/kg TPH standards determined for this location; see attached *Analytical Results* and *Table I Analytical Results*

**8/21/2020**

Notification was submitted to the BLM, NMOCD and FIMO via email to inform of the date of closure sampling, see *Email Notification Printouts*.

**8/24/2020**

Additional excavation occurred at this site, extending the excavated area to extents of 10' x 10' x 9' deep.

**8/25/2020**

Additional sampling was performed on the excavated area. One (1) composite sample was collected from the bottom at 9' deep, and one (1) composite sample was collected of the south wall of the excavation. Two (2) total samples were collected from the excavation, and were submitted to Envirotech for analysis. Abiodun Adelaye with the Farmington Field Office of the BLM was on-site to witness sample collection.

**8/27/2020**

Sample results indicated that all samples had returned results below the Table I results determined for this site. No further excavation is required; see attached *Analytical Results* and *Table I Analytical Results*

**9/3/2020**

Excavated area was backfilled and recontoured to meet NMOCD specifications; see attached *Photo Page*.

Table I Analytical Results - Marshall A 3

Sample Name	Description	Date	DRO	GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Top 4'	NA	NA	NA	NA	100	10	NA	NA	NA	50	600	200 sq. ft
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
BGT Composite	BGT Composite	7/29/2020	433	< 20	1100	1533.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	NA
Wall Composite	8' x 5' x 2' deep	8/3/2020	476	< 20	1150	1626.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	40
Bottom Composite	8' x 5' x 2' deep	8/3/2020	38	< 20	89.1	127.1	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	52
South Wall	8' x 10' x 5' deep	8/13/2020	391	< 20	977	1368.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	50
East Wall	8' x 10' x 5' deep	8/13/2020	< 25	< 20	< 50	< 95	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	40
West Wall	8' x 10' x 5' deep	8/13/2020	< 25	< 20	< 50	< 95	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	40
North Wall	8' x 10' x 5' deep	8/13/2020	< 25	< 20	< 50	< 95	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	50
Bottom @ 5'	8' x 10' x 5' deep	8/13/2020	32	< 20	78.4	110.4	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	80
Bottom 9'	10' x 10' x 9' deep	8/25/2020	< 25	< 20	< 50	< 95	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	100
South Wall	10' x 10' x 9' deep	8/25/2020	< 25	< 20	< 50	< 95	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.1	< 20	90

## CLOSURE SAMPLES









8/3/2020







**B** = Bottom 9'  
**N** = North Wall  
**E** = East Wall  
**S** = South Wall  
**W** = West Wall

**James McDaniel**

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**From:** James McDaniel  
**Sent:** Friday, July 24, 2020 12:48 PM  
**To:** 'Smith, Cory, EMNRD'; 'Abiodun Emmanuel Adeloje'; 'Maureen Joe'  
**Cc:** Heather Huntington; David Rogers; Kyle Walter  
**Subject:** RE: Below Grade Tank Closure Notifications

Ladies and Gentlemen,

Please accept this email as the required notification for below grade tank closure activities at the two wells below:

John Charles 2, 30-045-06480, located in Section 13E, Township 27N, Range 9W, San Juan County, New Mexico.

Marshall A 3, 30-045-06536, located in Section 15G, Township 27N, Range 9W, San Juan County, New Mexico.

Closure activities will begin at 10 AM at the Marshall A 3, with the John Charles 2 closure activities taking place immediately following. Thank you for your time in regards to this matter.

*\*Closure activities will take place on Wednesday, July 29, 2020.*

**James McDaniel**

**HSE Supervisor**

**Enduring Resources**

CSP #30009

CHMM #15676

CIT #13805

Office: 505-636-9731

Cell: 505-444-3004

[jmcdaniel@enduringresources.com](mailto:jmcdaniel@enduringresources.com)



**From:** James McDaniel

**Sent:** Friday, July 24, 2020 12:47 PM

**To:** 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; 'Abiodun Emmanuel Adeloje' <aadeloje@blm.gov>; 'Maureen Joe' <maureen.joe@bia.gov>

**Cc:** Heather Huntington <Hhuntington@enduringresources.com>; David Rogers <DRogers@enduringresources.com>; Kyle Walter <KWalter@enduringresources.com>

**Subject:** Below Grade Tank Closure Notifications

Ladies and Gentlemen,

Please accept this email as the required notification for below grade tank closure activities at the two wells below:

John Charles 2, 30-045-06480, located in Section 13E, Township 27N, Range 9W, San Juan County, New Mexico.

Marshall A 3, 30-045-06536, located in Section 15G, Township 27N, Range 9W, San Juan County, New Mexico.

Closure activities will begin at 10 AM at the Marshall A 3, with the John Charles 2 closure activities taking place immediately following. Thank you for your time in regards to this matter.

**James McDaniel**  
**HSE Supervisor**  
**Enduring Resources**  
CSP #30009  
CHMM #15676  
CIT #13805  
Office: 505-636-9731  
Cell: 505-444-3004  
[jmcdaniel@enduringresources.com](mailto:jmcdaniel@enduringresources.com)



**James McDaniel**

---

**From:** James McDaniel  
**Sent:** Friday, July 31, 2020 7:32 AM  
**To:** 'Smith, Cory, EMNRD'; 'Abiodun Emmanuel Adeloye'; 'Maureen Joe'  
**Cc:** Heather Huntington; David Rogers  
**Subject:** Re-Sampling of BGT Closures

The samples collected from below the BGTs at the Marshall A 3 and the John Charles 2 were elevated for DRO/ORO above the 100 ppm TPH requirements in the top 4 feet of soil. Additional excavation will occur on these two locations today, and closure sampling will occur at 10 AM on Monday, +August 3 at the Marshall A 3, with the sampling at the John Charles 2 following immediately afterwards. Thank you.

**James McDaniel**  
**HSE Supervisor**  
**Enduring Resources**  
CSP #30009  
CHMM #15676  
CIT #13805  
Office: 505-636-9731  
Cell: 505-444-3004  
[jmcdaniel@enduringresources.com](mailto:jmcdaniel@enduringresources.com)



## James McDaniel

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**From:** James McDaniel  
**Sent:** Tuesday, August 11, 2020 7:26 AM  
**To:** 'Smith, Cory, EMNRD'; 'Abiodun Emmanuel Adeloje'  
**Cc:** 'Maureen Joe'  
**Subject:** Marshall A 3

Gentlemen,

The re-sampling of the BGT closure at the Marshall A 3 returned results above standards for TPH. Additional excavation will take place today, and a re-sampling for closure will occur on Thursday, 8/13/2020 at 8:30 AM. Thank you for your time in regards to this matter.

**James McDaniel**  
**HSE Supervisor**  
**Enduring Resources**

CSP #30009

CHMM #15676

CIT #13805

Office: 505-636-9731

Cell: 505-444-3004

[jmcdaniel@enduringresources.com](mailto:jmcdaniel@enduringresources.com)



**James McDaniel**

---

**From:** James McDaniel  
**Sent:** Friday, August 21, 2020 11:05 AM  
**To:** 'Smith, Cory, EMNRD'; Abiodun Emmanuel Adeloye  
**Cc:** Kyle Walter  
**Subject:** Marshall A 3 BGT Closure  
**Attachments:** Sample Results 8-13-2020.pdf

Two of the samples from the Marshall A 3 failed the 100 ppm TPH standard for this location. The South Wall and the Bottom at 5' below ground surface. Additional excavation will take place on these areas on Monday, August 24, and sampling will occur on Tuesday August 25<sup>th</sup> at 9 AM. Thank you for your time in regards to this matter. Sample results are included for your reference.

**James McDaniel**  
**HSE Supervisor**  
**Enduring Resources**  
CSP #30009  
CHMM #15676  
CIT #13805  
Office: 505-636-9731  
Cell: 505-444-3004  
[jmcdaniel@enduringresources.com](mailto:jmcdaniel@enduringresources.com)







Enduring Resources, LLC  
BGT Closure Report  
Marshall A 3  
30-045-06536



PHOTO 1: Visual Confirmation of Release Occurring During BGT Removal



PHOTO 2: Former BGT Location after Removal (7/29/2020)





Enduring Resources, LLC  
BGT Closure Report  
Marshall A 3  
30-045-06536



PHOTO 3: Excavated Area (8/3/2020)





Enduring Resources, LLC  
BGT Closure Report  
Marshall A 3  
30-045-06536



PHOTO 4: Excavated Area (8/13/2020)



Enduring Resources, LLC  
BGT Closure Report  
Marshall A 3  
30-045-06536

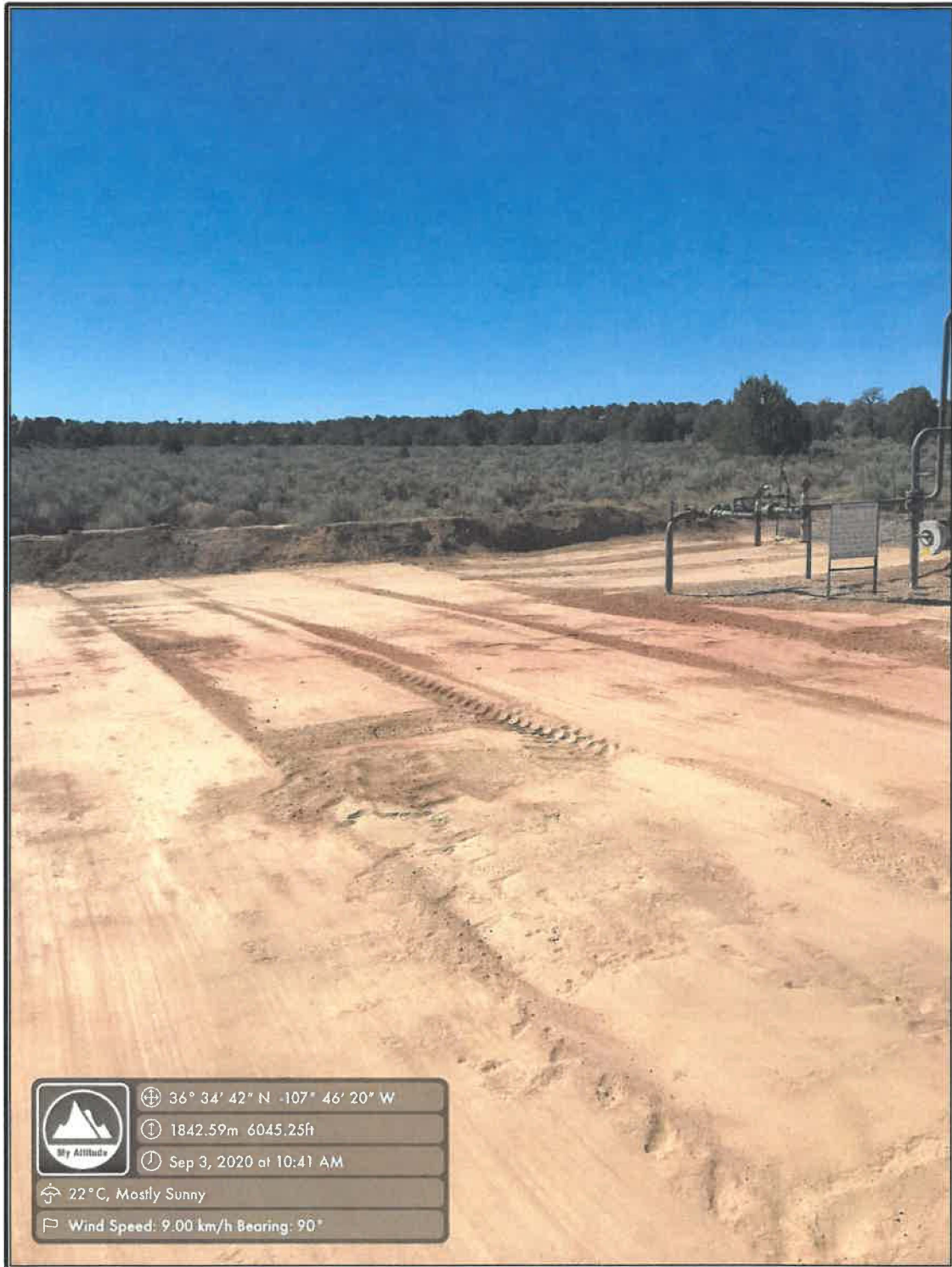


PHOTO 5: BGT Area after Backfill



## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 7/29/2020

Job Number: 17065-0017

Work Order: P007079

Project Name/Location: Marshall A3

Report Reviewed By:

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

Date: 7/31/20

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.  
Partial or Incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc. holds the Texas TNI certification T104704557-18-2 for the data reported.







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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

**Reported:**  
07/31/20 10:36

### Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Composite	P007079-01A	Soil	07/29/20	07/29/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Envirotech, Inc | 5796 U.S Highway 64 | Farmington, NM 87401 | 505.632.1881 | Envirotech-inc.com





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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
07/31/20 10:36

**BGT Composite  
P007079-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg				Batch: 2031011
Benzene	ND	0.0250	1	07/29/20	07/29/20	
Toluene	ND	0.0250	1	07/29/20	07/29/20	
Ethylbenzene	ND	0.0250	1	07/29/20	07/29/20	
p,m-Xylene	ND	0.0500	1	07/29/20	07/29/20	
o-Xylene	ND	0.0250	1	07/29/20	07/29/20	
Total Xylenes	ND	0.0250	1	07/29/20	07/29/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		07/29/20	07/29/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg				Batch: 2031011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/20	07/29/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	50-150		07/29/20	07/29/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg				Batch: 2031015
Diesel Range Organics (C10-C28)	433	25.0	1	07/29/20	07/29/20	
Oil Range Organics (C28-C40)	1100	50.0	1	07/29/20	07/29/20	
Surrogate: n-Nonane	98.9 %	50-200		07/29/20	07/29/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg				Batch: 2031012
Chloride	ND	20.0	1	07/29/20	07/29/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
07/31/20 10:36

### Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2031011-BLK1)

Prepared & Analyzed: 07/29/20 1

Benzene	ND	0.0250							
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	8.16		8.00		102	50-150			

#### LCS (2031011-BS1)

Prepared & Analyzed: 07/29/20 1

Benzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.54		8.00		107	50-150			

#### Matrix Spike (2031011-MS1)

Source: P007075-01

Prepared & Analyzed: 07/29/20 1

Benzene	4.95	0.0250	5.00	ND	99.0	54.3-133			
Toluene	4.95	0.0250	5.00	ND	99.0	61.4-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61.4-133			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63.3-131			
o-Xylene	4.93	0.0250	5.00	ND	98.6	63.3-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	50-150			

#### Matrix Spike Dup (2031011-MSD1)

Source: P007075-01

Prepared & Analyzed: 07/29/20 1

Benzene	5.24	0.0250	5.00	ND	105	54.3-133	5.71	20	
Toluene	5.22	0.0250	5.00	ND	104	61.4-130	5.30	20	
Ethylbenzene	5.19	0.0250	5.00	ND	104	61.4-133	5.17	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63.3-131	5.12	20	
o-Xylene	5.20	0.0250	5.00	ND	104	63.3-131	5.28	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	0-200	5.17	200	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	50-150			

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
07/31/20 10:36

### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

#### Blank (2031011-BLK1)

Prepared & Analyzed: 07/29/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	50-150			

#### LCS (2031011-BS2)

Prepared & Analyzed: 07/29/20 1

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		95.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	50-150			

#### Matrix Spike (2031011-MS2)

Source: P007075-01

Prepared & Analyzed: 07/29/20 1

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	50-150			

#### Matrix Spike Dup (2031011-MSD2)

Source: P007075-01

Prepared & Analyzed: 07/29/20 1

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	3.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	50-150			

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
07/31/20 10:36

### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
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#### Blank (2031015-BLK1)

Prepared & Analyzed: 07/29/20 1

Diesel Range Organics (C10-C28)  
Oil Range Organics (C28-C40)

ND  
ND

25.0  
50.0

Surrogate: n-Nonane

52.4

50.0

105

50-200

#### LCS (2031015-BS1)

Prepared: 07/29/20 1 Analyzed: 07/29/20 2

Diesel Range Organics (C10-C28)  
Surrogate: n-Nonane

470  
52.6

25.0  
50.0

500  
50.0

94.1  
105

38-132  
50-200

#### Matrix Spike (2031015-MS1)

Source: P007079-01

Prepared: 07/29/20 1 Analyzed: 07/29/20 2

Diesel Range Organics (C10-C28)  
Surrogate: n-Nonane

947  
48.8

25.0  
50.0

500  
50.0

433

103  
97.6

38-132  
50-200

#### Matrix Spike Dup (2031015-MSD1)

Source: P007079-01

Prepared: 07/29/20 1 Analyzed: 07/29/20 2

Diesel Range Organics (C10-C28)  
Surrogate: n-Nonane

984  
48.8

25.0  
50.0

500  
50.0

433

110  
97.5

38-132  
50-200

3.83  
20

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	07/31/20 10:36

## Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2031012-BLK1)</b>					Prepared & Analyzed: 07/29/20 1				
Chloride	ND	20.0							
<b>LCS (2031012-BS1)</b>					Prepared & Analyzed: 07/29/20 1				
Chloride	252	20.0	250		101	90-110			
<b>Matrix Spike (2031012-MS1)</b>					Source: P007075-01 Prepared & Analyzed: 07/29/20 1				
Chloride	353	20.0	250	97.6	102	80-120			
<b>Matrix Spike Dup (2031012-MSD1)</b>					Source: P007075-01 Prepared & Analyzed: 07/29/20 1				
Chloride	353	20.0	250	97.6	102	80-120	0.00283	20	

## 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: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
07/31/20 10:36

#### 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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### Chain of Custody

Page 1 of 1

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**envirotech**  
Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401  
24 Hour Emergency Response Phone (505) 382-1879

Ph (505) 632-1881 Fx (505) 632-1885

en5interact-line.com



## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 8/3/2020

Job Number: 17065-0017

Work Order: P008005

Project Name/Location: Marshall A3

Report Reviewed By:

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

Date: 8/10/20

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: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

**Reported:**  
08/10/20 10:34

### Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Wall Composite	P008005-01A	Soil	08/03/20	08/03/20	Glass Jar, 4 oz.
Bottom Composite	P008005-02A	Soil	08/03/20	08/03/20	Glass Jar, 4 oz.

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/10/20 10:34

**Wall Composite  
P008005-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg				Batch: 2032018
Benzene	ND	0.0250	1	08/05/20	08/05/20	
Toluene	ND	0.0250	1	08/05/20	08/05/20	
Ethylbenzene	ND	0.0250	1	08/05/20	08/05/20	
p,m-Xylene	ND	0.0500	1	08/05/20	08/05/20	
o-Xylene	ND	0.0250	1	08/05/20	08/05/20	
Total Xylenes	ND	0.0250	1	08/05/20	08/05/20	
Surrogate: 4-Bromochlorobenzene-PID	100 %	50-150		08/05/20	08/05/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg				Batch: 2032018
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/20	08/05/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	50-150		08/05/20	08/05/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg				Batch: 2032016
Diesel Range Organics (C10-C28)	476	25.0	1	08/05/20	08/05/20	
Oil Range Organics (C28-C40)	1150	50.0	1	08/05/20	08/05/20	
Surrogate: n-Nonane	99.5 %	50-200		08/05/20	08/05/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg				Batch: 2032017
Chloride	ND	20.0	1	08/05/20	08/05/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/10/20 10:34

**Bottom Composite**  
**P008005-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2032018
Benzene	ND	0.0250	1	08/05/20	08/05/20	
Toluene	ND	0.0250	1	08/05/20	08/05/20	
Ethylbenzene	ND	0.0250	1	08/05/20	08/05/20	
p,m-Xylene	ND	0.0500	1	08/05/20	08/05/20	
o-Xylene	ND	0.0250	1	08/05/20	08/05/20	
Total Xylenes	ND	0.0250	1	08/05/20	08/05/20	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	50-150		08/05/20	08/05/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2032018
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/20	08/05/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	50-150		08/05/20	08/05/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2032016
Diesel Range Organics (C10-C28)	38.0	25.0	1	08/05/20	08/05/20	
Oil Range Organics (C28-C40)	89.1	50.0	1	08/05/20	08/05/20	
Surrogate: n-Nonane	91.3 %	50-200		08/05/20	08/05/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2032017
Chloride	ND	20.0	1	08/05/20	08/05/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/10/20 10:34

### Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2032018-BLK1)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Benzene	ND	0.0250							
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	8.12		8.00		102	50-150			

#### LCS (2032018-BS1)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Benzene	5.42	0.0250	5.00		108	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
o-Xylene	5.43	0.0250	5.00		109	70-130			
Total Xylenes	16.2	0.0250	15.0		108	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	50-150			

#### Matrix Spike (2032018-MS1)

Source: P008005-01

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Benzene	5.36	0.0250	5.00	ND	107	54.3-133			
Toluene	5.37	0.0250	5.00	ND	107	61.4-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	61.4-133			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63.3-131			
o-Xylene	5.37	0.0250	5.00	ND	107	63.3-131			
Total Xylenes	16.1	0.0250	15.0	ND	107	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.33		8.00		104	50-150			

#### Matrix Spike Dup (2032018-MSD1)

Source: P008005-01

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Benzene	5.22	0.0250	5.00	ND	104	54.3-133	2.71	20	
Toluene	5.20	0.0250	5.00	ND	104	61.4-130	3.17	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61.4-133	3.38	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63.3-131	3.44	20	
o-Xylene	5.19	0.0250	5.00	ND	104	63.3-131	3.37	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	0-200	3.41	200	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	50-150			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	08/10/20 10:34

### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2032018-BLK1)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	50-150			

#### LCS (2032018-BS2)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	50-150			

#### Matrix Spike (2032018-MS2)

Source: P008005-01 Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	50-150			

#### Matrix Spike Dup (2032018-MSD2)

Source: P008005-01 Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	2.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	50-150			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	08/10/20 10:34

### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2032016-BLK1)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.3	50-200			

#### LCS (2032016-BS1)

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Diesel Range Organics (C10-C28)	439	25.0	500		87.9	38-132			
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			

#### Matrix Spike (2032016-MS1)

Source: P007096-01

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Diesel Range Organics (C10-C28)	2130	125	500	1430	141	38-132			M2
Surrogate: n-Nonane	68.2		50.0		136	50-200			

#### Matrix Spike Dup (2032016-MSD1)

Source: P007096-01

Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Diesel Range Organics (C10-C28)	2030	125	500	1430	120	38-132	5.02	20	
Surrogate: n-Nonane	63.9		50.0		128	50-200			

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/10/20 10:34

### Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2032017-BLK1)</b>					Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	ND	20.0							
<b>LCS (2032017-BS1)</b>					Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	271	20.0	250		108	90-110			
<b>Matrix Spike (2032017-MS1)</b>					Source: P008005-01 Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	257	20.0	250	ND	103	80-120			
<b>Matrix Spike Dup (2032017-MSD1)</b>					Source: P008005-01 Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	250	20.0	250	ND	100	80-120	2.73	20	

#### 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: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

**Reported:**  
08/10/20 10:34

#### 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.

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Page 1 of 1

**envirotech**  
Analytical Laboratory

5795 US Highway 64, Farmington, NJ 07401  
24 Hour Emergency Response Phone: (800) 362-1870

Ph: (505) 532-1881 Fx: (505) 532-1865

[info@envirotech.com](mailto:info@envirotech.com)  
[www.envirotech.com](http://www.envirotech.com)



## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 8/13/2020

Job Number: 17065-0017

Work Order: P008036

Project Name/Location: Marshall A3

Report Reviewed By:

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

Date: 8/20/20

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: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

### Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall	P008036-01A	Soil	08/13/20	08/13/20	Glass Jar, 4 oz.
East Wall	P008036-02A	Soil	08/13/20	08/13/20	Glass Jar, 4 oz.
West Wall	P008036-03A	Soil	08/13/20	08/13/20	Glass Jar, 4 oz.
North Wall	P008036-04A	Soil	08/13/20	08/13/20	Glass Jar, 4 oz.
Bottom @ 5'	P008036-05A	Soil	08/13/20	08/13/20	Glass Jar, 4 oz.

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

**South Wall**  
**P008036-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2033033
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2033033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2033038
Diesel Range Organics (C10-C28)	391	25.0	1	08/14/20	08/14/20	
Oil Range Organics (C28-C40)	977	50.0	1	08/14/20	08/14/20	
<i>Surrogate: n-Nonane</i>		103 %	50-200	08/14/20	08/14/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2034004
Chloride	ND	20.0	1	08/17/20	08/17/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

**East Wall**  
**P008036-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2033033
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2033033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2033038
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/18/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/18/20	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	08/14/20	08/18/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2034004
Chloride	ND	20.0	1	08/17/20	08/17/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

**West Wall**  
**P008036-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2033033
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2033033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	50-150	08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2033038
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20	
<i>Surrogate: n-Nonane</i>		98.5 %	50-200	08/14/20	08/14/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2034004
Chloride	ND	20.0	1	08/17/20	08/17/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

**North Wall**  
**P008036-04 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg				Batch: 2033033
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg				Batch: 2033033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	50-150		08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2033038
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20	
Surrogate: n-Nonane	103 %	50-200		08/14/20	08/14/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2034004
Chloride	ND	20.0	1	08/17/20	08/17/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

**Bottom @ 5'**  
**P008036-05 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg				Batch: 2033033
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
Surrogate: 4-Bromochlorobenzene-PID	100 %	50-150		08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg				Batch: 2033033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	50-150		08/14/20	08/14/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2033038
Diesel Range Organics (C10-C28)	32.0	25.0	1	08/14/20	08/14/20	
Oil Range Organics (C28-C40)	78.4	50.0	1	08/14/20	08/14/20	
Surrogate: n-Nonane	103 %	50-200		08/14/20	08/14/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2034004
Chloride	ND	20.0	1	08/17/20	08/17/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

### Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2033033-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Benzene	ND	0.0250							
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	8.30		8.00		104	50-150			

#### LCS (2033033-BS1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Benzene	5.33	0.0250	5.00		107	70-130			
Toluene	5.40	0.0250	5.00		108	70-130			
Ethylbenzene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
o-Xylene	5.43	0.0250	5.00		109	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.39		8.00		105	50-150			

#### Matrix Spike (2033033-MS1)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Benzene	5.21	0.0250	5.00	ND	104	54-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
Ethylbenzene	5.29	0.0250	5.00	ND	106	61-133			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
o-Xylene	5.32	0.0250	5.00	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	50-150			

#### Matrix Spike Dup (2033033-MSD1)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Benzene	5.37	0.0250	5.00	ND	107	54-133	3.12	20	
Toluene	5.43	0.0250	5.00	ND	109	61-130	2.52	20	
Ethylbenzene	5.42	0.0250	5.00	ND	108	61-133	2.35	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	2.24	20	
o-Xylene	5.45	0.0250	5.00	ND	109	63-131	2.55	20	
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131	2.35	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	50-150			

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/20/20 14:16

### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2033033-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	50-150			

#### LCS (2033033-BS2)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	50-150			

#### Matrix Spike (2033033-MS2)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	50-150			

#### Matrix Spike Dup (2033033-MSD2)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	97.9	70-130	0.271	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	50-150			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	08/20/20 14:16

### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2033038-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	59.6		50.0		119	50-200			

#### LCS (2033038-BS1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Diesel Range Organics (C10-C28)	491	25.0	500		98.2	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

#### Matrix Spike (2033038-MS1)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 2

Diesel Range Organics (C10-C28)	849	25.0	500	391	91.5	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

#### Matrix Spike Dup (2033038-MSD1)

Source: P008036-01 Prepared: 08/14/20 0 Analyzed: 08/14/20 2

Diesel Range Organics (C10-C28)	1100	25.0	500	391	141	38-132	25.6	20	M2, R2
Surrogate: n-Nonane	51.4		50.0		103	50-200			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	<b>Reported:</b>
Denver CO, 80202	Project Manager:	James McDaniel	08/20/20 14:16

#### Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2034004-BLK1)</b>					Prepared & Analyzed: 08/17/20 1				
Chloride	ND	20.0							
<b>LCS (2034004-BS1)</b>					Prepared & Analyzed: 08/17/20 1				
Chloride	247	20.0	250		98.8	90-110			
<b>Matrix Spike (2034004-MS1)</b>					Source: P008036-01 Prepared & Analyzed: 08/17/20 1				
Chloride	249	20.0	250	ND	99.5	80-120			
<b>Matrix Spike Dup (2034004-MSD1)</b>					Source: P008036-01 Prepared & Analyzed: 08/17/20 1				
Chloride	249	20.0	250	ND	99.4	80-120	0.0121	20	

#### 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:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	<b>Reported:</b>
Denver CO, 80202	Project Manager:	James McDaniel	08/20/20 14:16

#### Notes and Definitions

- R2      The RPD exceeded the acceptance limit.
- 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.

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## Analytical Report

### Report Summary

Client: Enduring Resources, LLC

Samples Received: 8/25/2020

Job Number: 17065-0017

Work Order: P008084

Project Name/Location: Marshall A3

Report Reviewed By:

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

Date: 8/27/20

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	Project Name:	Marshall A3	<b>Reported:</b> 08/27/20 12:27
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	James McDaniel	

### Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom 9'	P008084-01A	Soil	08/25/20	08/25/20	Glass Jar, 4 oz.
South Wall	P008084-02A	Soil	08/25/20	08/25/20	Glass Jar, 4 oz.

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/27/20 12:27

**Bottom 9'**  
**P008084-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg				Batch: 2035018
Benzene	ND	0.0250	1	08/25/20	08/26/20	
Toluene	ND	0.0250	1	08/25/20	08/26/20	
Ethylbenzene	ND	0.0250	1	08/25/20	08/26/20	
p,m-Xylene	ND	0.0500	1	08/25/20	08/26/20	
o-Xylene	ND	0.0250	1	08/25/20	08/26/20	
Total Xylenes	ND	0.0250	1	08/25/20	08/26/20	
Surrogate: 4-Bromochlorobenzene-PID	98.8 %	50-150		08/25/20	08/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg				Batch: 2035018
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/20	08/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	50-150		08/25/20	08/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2035016
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/20	08/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/25/20	08/25/20	
Surrogate: n-Nonane	95.6 %	50-200		08/25/20	08/25/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2035017
Chloride	ND	20.0	1	08/25/20	08/26/20	

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

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/27/20 12:27

**South Wall**  
**P008084-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg				Batch: 2035018
Benzene	ND	0.0250	1	08/25/20	08/26/20	
Toluene	ND	0.0250	1	08/25/20	08/26/20	
Ethylbenzene	ND	0.0250	1	08/25/20	08/26/20	
p,m-Xylene	ND	0.0500	1	08/25/20	08/26/20	
o-Xylene	ND	0.0250	1	08/25/20	08/26/20	
Total Xylenes	ND	0.0250	1	08/25/20	08/26/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	50-150	08/25/20	08/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg				Batch: 2035018
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/20	08/26/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	50-150	08/25/20	08/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2035016
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/20	08/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/25/20	08/25/20	
<i>Surrogate: n-Nonane</i>		98.1 %	50-200	08/25/20	08/25/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2035017
Chloride	ND	20.0	1	08/25/20	08/26/20	

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Enduring Resources, LLC	Project Name:	Marshall A3	Reported: 08/27/20 12:27
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	James McDaniel	

## Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

## Blank (2035018-BLK1)

Prepared: 08/25/20 1 Analyzed: 08/26/20 1

Benzene	ND	0.0250							
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	7.68		8.00		96.0	50-150			

## LCS (2035018-BS1)

Prepared: 08/25/20 1 Analyzed: 08/26/20 1

Benzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.3	70-130			
p,m-Xylene	9.36	0.0500	10.0		93.6	70-130			
o-Xylene	4.70	0.0250	5.00		94.1	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	50-150			

## Matrix Spike (2035018-MS1)

Source: P008083-01

Prepared: 08/25/20 1 Analyzed: 08/26/20 2

Benzene	5.29	0.0250	5.00	ND	106	54-133			
Toluene	5.38	0.0250	5.00	0.135	105	61-130			
Ethylbenzene	6.09	0.0250	5.00	1.12	99.3	61-133			
p,m-Xylene	10.8	0.0500	10.0	0.969	98.0	63-131			
o-Xylene	5.52	0.0250	5.00	0.542	99.6	63-131			
Total Xylenes	16.3	0.0250	15.0	1.51	98.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.78		8.00		110	50-150			

## Matrix Spike Dup (2035018-MSD1)

Source: P008083-01

Prepared: 08/25/20 1 Analyzed: 08/26/20 2

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	7.70	20	
Toluene	4.97	0.0250	5.00	0.135	96.8	61-130	7.81	20	
Ethylbenzene	5.68	0.0250	5.00	1.12	91.1	61-133	6.91	20	
p,m-Xylene	9.95	0.0500	10.0	0.969	89.8	63-131	7.93	20	
o-Xylene	5.10	0.0250	5.00	0.542	91.2	63-131	7.89	20	
Total Xylenes	15.1	0.0250	15.0	1.51	90.3	63-131	7.92	20	
Surrogate: 4-Bromochlorobenzene-PID	8.68		8.00		109	50-150			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	08/27/20 12:27

### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2035018-BLK1)</b>					Prepared: 08/25/20 1 Analyzed: 08/26/20 1				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	50-150			
<b>LCS (2035018-BS2)</b>					Prepared: 08/25/20 1 Analyzed: 08/26/20 1				
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	50-150			
<b>Matrix Spike (2035018-MS2)</b>					Source: P008083-01 Prepared: 08/25/20 1 Analyzed: 08/26/20 2				
Gasoline Range Organics (C6-C10)	90.5	20.0	50.0	46.6	87.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	50-150			
<b>Matrix Spike Dup (2035018-MSD2)</b>					Source: P008083-01 Prepared: 08/25/20 1 Analyzed: 08/26/20 2				
Gasoline Range Organics (C6-C10)	81.8	20.0	50.0	46.6	70.5	70-130	10.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	50-150			

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Enduring Resources, LLC	Project Name:	Marshall A3	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	James McDaniel	08/27/20 12:27

### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

#### Blank (2035016-BLK1)

Prepared &amp; Analyzed: 08/25/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	52.9		50.0		106	50-200			

#### LCS (2035016-BS1)

Prepared &amp; Analyzed: 08/25/20 1

Diesel Range Organics (C10-C28)	462	25.0	500		92.3	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			

#### Matrix Spike (2035016-MS1)

Source: P008075-01

Prepared &amp; Analyzed: 08/25/20 1

Diesel Range Organics (C10-C28)	489	25.0	500	ND	97.9	38-132			
Surrogate: n-Nonane	48.6		50.0		97.1	50-200			

#### Matrix Spike Dup (2035016-MSD1)

Source: P008075-01

Prepared &amp; Analyzed: 08/25/20 1

Diesel Range Organics (C10-C28)	476	25.0	500	ND	95.2	38-132	2.73	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			

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511 16th Street, Suite 700  
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Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

Reported:  
08/27/20 12:27

### Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD Limit %	Notes
<b>Blank (2035017-BLK1)</b>					Prepared: 08/25/20 1 Analyzed: 08/25/20 2			
Chloride	ND	20.0						
<b>LCS (2035017-BS1)</b>					Prepared: 08/25/20 1 Analyzed: 08/25/20 2			
Chloride	247	20.0	250		98.7	90-110		
<b>Matrix Spike (2035017-MS1)</b>					Source: P008083-01 Prepared: 08/25/20 1 Analyzed: 08/26/20 0			
Chloride	268	20.0	250	23.0	98.1	80-120		
<b>Matrix Spike Dup (2035017-MSD1)</b>					Source: P008083-01 Prepared: 08/25/20 1 Analyzed: 08/26/20 0			
Chloride	270	20.0	250	23.0	98.7	80-120	0.532	20

#### 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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511 16th Street, Suite 700  
Denver CO, 80202

Project Name: Marshall A3  
Project Number: 17065-0017  
Project Manager: James McDaniel

**Reported:**  
08/27/20 12:27

### 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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### Chain of Custody

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**envirotech**  
Analytical Laboratory  
5795 US Highway 64, Farmington, NJ 08431  
24 Hour Emergency Response Phone (609) 302-1879  
Ph (905) 622-1881 Fx (905) 632-1865  
www.envirotech-ny.com  
labadmin@envirotech-ny.com