

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County
G	15	27N	9W	San Juan

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): UNK	Volume Recovered (bbls): NONE
	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*.

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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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>9/11/2020</u>

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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 not 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.

Oil Conservation Division

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

Printed Name: _____ 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: _____ Title: _____
 Signature: _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

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Closure

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

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

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

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

Printed Name: James McDaniel Title: HSE 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: _____

NRM202557321

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 Adelaye 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 Adelaye 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 Adelaye 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	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square
			NA	NA	NA	TPH	10	NA	NA	NA	50	600	Footage
STANDARD	Top 4'	NA	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	200 sq. ft
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





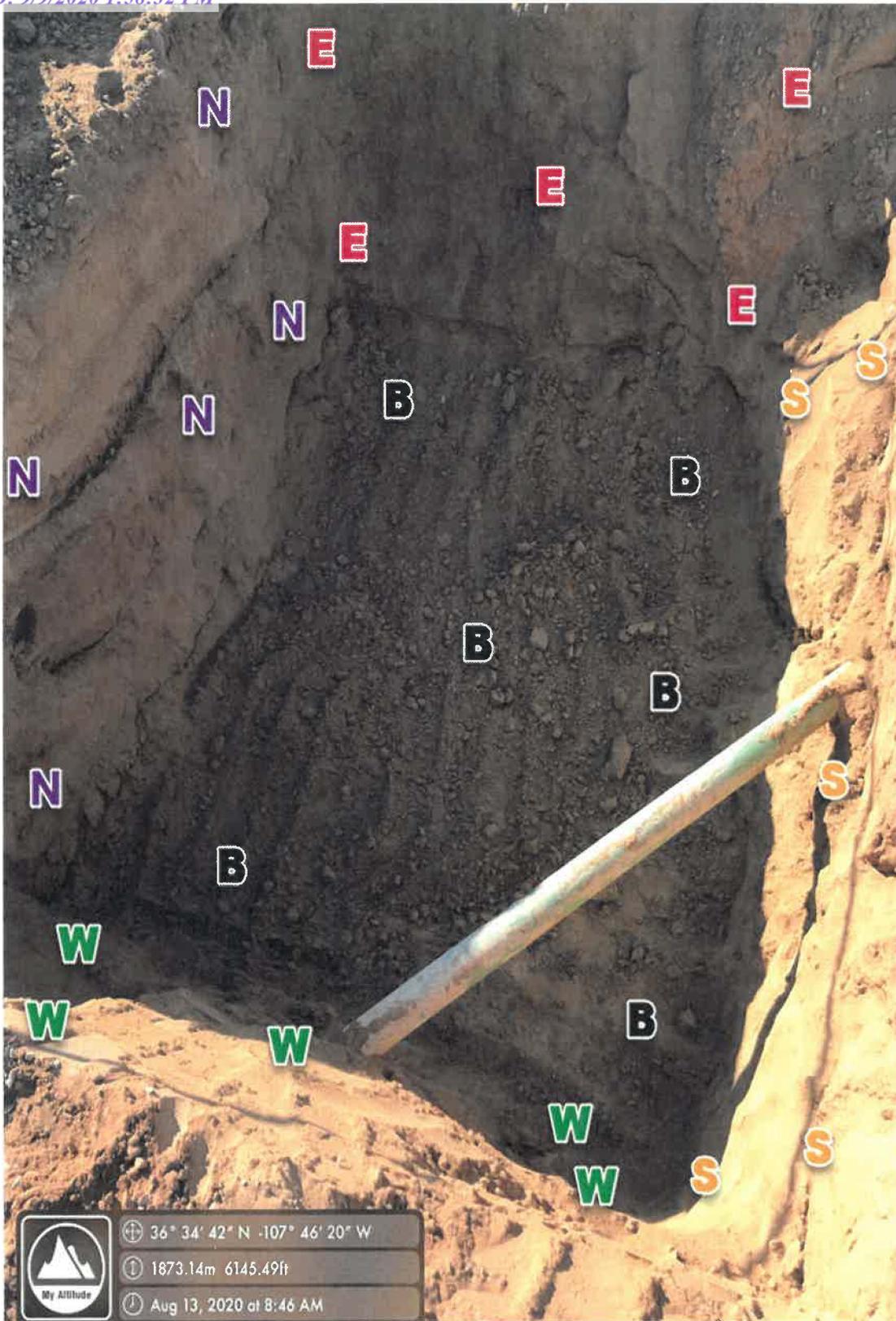
X = Sample Locations

8/3/2020

B = Bottom Composite

W = Wall Composite





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

James McDaniel

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



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



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



James McDaniel

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



James McDaniel

From: James McDaniel
Sent: Friday, August 21, 2020 11:05 AM
To: 'Smith, Cory, EMNRD'; Abiodun Emmanuel Adelaye
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 25th 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





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

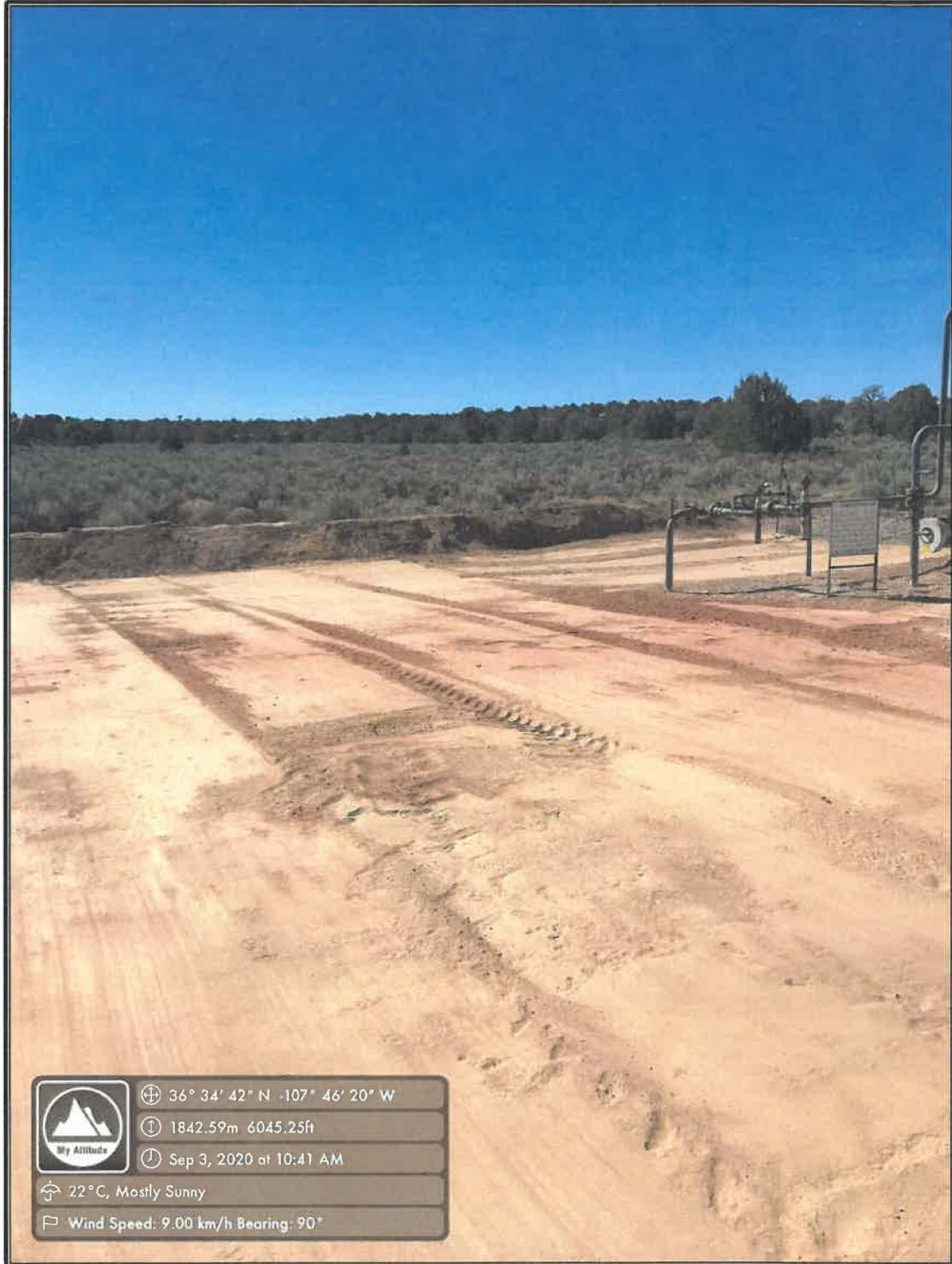


PHOTO 5: BGT Area after Backfill



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 T104704557-19-2 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: 07/31/20 10:36
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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.





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

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						Batch: 2031011
	mg/kg	mg/kg				
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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/29/20	07/29/20	
Nonhalogenated Organics by EPA 8015D - GRO						Batch: 2031011
	mg/kg	mg/kg				
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/20	07/29/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	50-150	07/29/20	07/29/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						Batch: 2031015
	mg/kg	mg/kg				
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	
<i>Surrogate: n-Nonane</i>		98.9 %	50-200	07/29/20	07/29/20	
Anions by EPA 300.0/9056A						Batch: 2031012
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/29/20	07/29/20	

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





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
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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	7.38		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
Blank (2031015-BLK1)						Prepared & Analyzed: 07/29/20 1			
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	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)	470	25.0	500		94.1	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			
Matrix Spike (2031015-MS1)						Source: P007079-01 Prepared: 07/29/20 1 Analyzed: 07/29/20 2			
Diesel Range Organics (C10-C28)	947	25.0	500	433	103	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	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)	984	25.0	500	433	110	38-132	3.83	20	
Surrogate: n-Nonane	48.8		50.0		97.5	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: 07/31/20 10:36
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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
Blank (2031012-BLK1)									
Chloride	ND	20.0							Prepared & Analyzed: 07/29/20 1
LCS (2031012-BS1)									
Chloride	252	20.0	250		101	90-110			Prepared & Analyzed: 07/29/20 1
Matrix Spike (2031012-MS1)									
Chloride	353	20.0	250	97.6	102	80-120			Source: P007075-01 Prepared & Analyzed: 07/29/20 1
Matrix Spike Dup (2031012-MSD1)									
Chloride	353	20.0	250	97.6	102	80-120	0.00283	20	Prepared & Analyzed: 07/29/20 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: Marshall A3 Project Number: 17065-0017 Project Manager: James McDaniel	Reported: 07/31/20 10:36
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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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Project Information

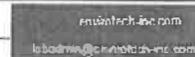
Chain of Custody

Client: Endurim Project: Marshall A 3 Project Manager: James McDaniel Address: City, State, Zip: Phone: 505-444-3004 Email: James.McDaniel@endurim.com Report due by: 7/30/20				Bill To Attention: Address: City, State, Zip: Phone: Email:				Lab Use Only Lab WOH# R070579 Job Number 17006-0077		TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>			
Analysis and Method						State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>									
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 300.0	Remarks			
10 ³⁰	7/29/20	S	1	B6T Composite	1	X	X	X		X					
Additional Instructions: I, (field sampler), attest to the validity and accuracy of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered to be grounds for legal action. Sampled by: <i>[Signature]</i> 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: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____		AVG Temp °C <u>4.0</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other 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.										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					



5795-US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone: (800) 302-1879

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





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

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	50-150	08/05/20	08/05/20	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg			Batch: 2032018
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/20	08/05/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	50-150	08/05/20	08/05/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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	
<i>Surrogate: n-Nonane</i>		99.5 %	50-200	08/05/20	08/05/20	
Anions by EPA 300.0/9056A		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		Dilution	Prepared	Analyzed	Notes
		Limit					
Volatile Organics by EPA 8021B		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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %		50-150	08/05/20	08/05/20	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg				Batch: 2032018
Gasoline Range Organics (C6-C10)		ND	20.0	1	08/05/20	08/05/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %		50-150	08/05/20	08/05/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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	
<i>Surrogate: n-Nonane</i>		91.3 %		50-200	08/05/20	08/05/20	
Anions by EPA 300.0/9056A		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
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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 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
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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
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Blank (2032018-BLK1) Prepared: 08/05/20 0 Analyzed: 08/05/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	7.22		8.00		90.2	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: 08/10/20 10:34
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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
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
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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
Blank (2032017-BLK1)					Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	ND	20.0							
LCS (2032017-BS1)					Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	271	20.0	250		108	90-110			
Matrix Spike (2032017-MS1)					Source: P008005-01 Prepared: 08/05/20 0 Analyzed: 08/05/20 1				
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2032017-MSD1)					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	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

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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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



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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
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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		Dilution	Prepared	Analyzed	Notes
		Limit					
Volatile Organics by EPA 8021B		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	
Nonhalogenated Organics by EPA 8015D - GRO		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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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	
Anions by EPA 300.0/9056A		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
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**East Wall
P008036-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		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	
Nonhalogenated Organics by EPA 8015D - GRO		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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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	
Anions by EPA 300.0/9056A		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
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**West Wall
P008036-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						Batch: 2033033
	mg/kg	mg/kg				
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	
Nonhalogenated Organics by EPA 8015D - GRO						Batch: 2033033
	mg/kg	mg/kg				
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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						Batch: 2033038
	mg/kg	mg/kg				
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	
Anions by EPA 300.0/9056A						Batch: 2034004
	mg/kg	mg/kg				
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
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**North Wall
P008036-04 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		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>		103 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - GRO		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>		90.6 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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>		103 %	50-200	08/14/20	08/14/20	
Anions by EPA 300.0/9056A		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
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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>		95.5 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
<i>Surrogate: n-Nonane</i>		103 %	50-200	08/14/20	08/14/20	
Anions by EPA 300.0/9056A	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
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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 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
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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 (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 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
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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
Blank (2034004-BLK1)						Prepared & Analyzed: 08/17/20 1			
Chloride	ND	20.0							
LCS (2034004-BS1)						Prepared & Analyzed: 08/17/20 1			
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2034004-MS1)						Source: P008036-01 Prepared & Analyzed: 08/17/20 1			
Chloride	249	20.0	250	ND	99.5	80-120			
Matrix Spike Dup (2034004-MSD1)						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 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
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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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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Endurim</u>		Attention: <u>J. McDaniel</u>		Lab Use Only		TAT		EPA Program						
Project: <u>Marshall A3</u>		Address:		Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA				
Project Manager: <u>J. McDaniel</u>		City, State, Zip		Analysis and Method						State				
Address:		Phone:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	CO	UT	A2	
City, State, Zip		Email:								TX		OK		
Report due by:														
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 300.0	Remarks		
8:50	8/13/20	S	1	South Wall	1	X	X	X		X				
9:00	8/13/20	S	1	East Wall	2	X	X	X		X				
9:05	8/13/20	S	1	West Wall	3	X	X	X		X				
8:55	8/13/20	S	1	North Wall	4	X	X	X		X				
9:10	8/13/20	S	1	Bottom @ 5'	5	X	X	X		X				
Additional Instructions:														
I, (field sampler), attest to the veracity and authenticity of this sample. I am aware that tampering with or interference with this sample, location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:						Samples requiring thermal preservation must be received on ice the day they are sampled or 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: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N								
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3	AVG Temp °C <u>4.0</u>					
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.														

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5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 302-1878

Ph (505) 632-1881 Fx (505) 632-1865

envirotech.com
labadmin@envirotech.com



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:

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 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
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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
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Bottom 9'
P008084-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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>	98.8 %	50-150		08/25/20	08/26/20	
Nonhalogenated Organics by EPA 8015D - GRO	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>	89.2 %	50-150		08/25/20	08/26/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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>	95.6 %	50-200		08/25/20	08/25/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035017
Chloride	ND	20.0	1	08/25/20	08/26/20	

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

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035017
Chloride	ND	20.0	1	08/25/20	08/26/20	

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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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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 (2035018-BLK1)					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			
LCS (2035018-BS2)					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			
Matrix Spike (2035018-MS2)					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			
Matrix Spike Dup (2035018-MSD2)					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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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 (2035016-BLK1)

Prepared & 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 & 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 & 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 & 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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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
Blank (2035017-BLK1)					Prepared: 08/25/20 1 Analyzed: 08/25/20 2				
Chloride	ND	20.0							
LCS (2035017-BS1)					Prepared: 08/25/20 1 Analyzed: 08/25/20 2				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2035017-MS1)					Source: P008083-01 Prepared: 08/25/20 1 Analyzed: 08/26/20 0				
Chloride	268	20.0	250	23.0	98.1	80-120			
Matrix Spike Dup (2035017-MSD1)					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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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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