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

Responsible Party: Enduring Resources

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 372286

Contact Name: Chad Snell		Contact Te	Contact Telephone: 505-444-0586			
Contact email: csnell@enduringresources.com		Incident #	Incident # (assigned by OCD): NCS1909440233			
Contact mailing address: 200 Energy Court		Farmingto	on, New Mexico 874	401		
Latitude	36.162408	2		of Release So Longitude _ cimal degrees to 5 decim	-107.48647	9
Site Name: L	ogos 3			Site Type:	Site Type: Wellsite	
Date Release	Discovered:	3/22/2019		API# (if app	olicable) 30-043-2113 :	5
Unit Letter	Section	Township	Range	Coun	-	NMOCD
P	5	22N	6W	Sando	oval	
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)						
Crude Oil	1	Volume Release	d (bbls) 18BBLs		Volume Recovered (bbls) 8bbls	
Produced	Produced Water Volume Released (bbls):			Volume Recovered	d (bbls):	
Is the concentration of dissolved chloride is produced water >10,000 mg/l?			hloride in the	Yes No		
Condensa	nte	Volume Release			Volume Recovered	d (bbls)
☐ Natural Gas Volume Released (Mcf)				Volume Recovered	d (Mcf)	
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)		ecovered (provide units)				
Cause of Release On 3/22/2019, a release was discovered at the Logos 3. The dump valve on the onsite separator stuck, causing the separator to overflow to the onsite compressor through the gas line. The compressor dumped excess oil to a tank set by the compressor. 18 bbls of oil overflowed from the tank, leaving the pad and pooling 370 Ft. from location. All pooled areas have been hydrovaced and additional clean-up activities are completed.						

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	· ·
` ,	
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
. The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
☐ Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
110301708 07.	Dato.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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 con	nfirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.		
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of		
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
·	•		
OCD Only			
Received by:	Date:		
☐ Approved	Approval		
Signature:	Date:		

Form	C-	14
Page 6		

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Chad Snell Title: HSE Tech
- 1 11 2 ald
Signature: Date: Date:
email: csnell@enduringresources.com Telephone: (505)444-0586 OCD Only

Logos 3 Remediation Narrative

3/22/2019

A release occurred at the Logos 3 when a dump valve on the onsite separator stuck, causing the separator to overflow to the onsite compressor through the gas line. The compressor dumped excess oil to a tank set by the compressor. 18 bbls of oil overflowed from the tank, leaving the pad and pooling 370 Ft. from location. All pooled areas were hydrovaced with 8 bbls being recovered.

3/23/2019

A crew was onsite to fence area that had flowed off pad to keep grazing animals off of impacted area.

3/27/2019

Cleanup activities took place using a backhoe on pad to scrap up impacted area, all impacted areas off pad were hand shoveled out. Approximately 84 yards of impacted soil was removed.

4/1/2019

Notification was sent to the NMOCD via email that confirmation sampling would take place on April 3rd 2019 starting at 11:00am. See attached "Email Notification".

4/3/2019

Enduring personnel was onsite to perform confirmation sampling activities. Twenty Five composite samples were collected and sent in for analysis of BTEX, Chlorides, and TPH (GRO/DRO/ORO). Each sample taken met the requirements of no more than a 200 square foot area.

4/15/2019

Analytical report was received, returned results determined that 3 sections needed further excavation (Section 18, 19, 20). All other sections came back below regulatory standards for this site (Benzene: 10 ppm,BTEX: 50 ppm, TPH: 2,500 ppm, Chlorides: 10,000 ppm). Site was

ranked at grounder water being over 100 ft. by a Cathodic that was drilled at a nearby location (Chaco 2206 5A 436H). See attached "Ground Bed Drilling Log", and "Sample Results Table".

4/22/2019

Further excavation on sections 18, 19, and 20 was completed. See Attached "Scaled Diagram".

4/24/2019

Notification was sent to the NMOCD that final sampling for the Sections 18, 19, and 20 would be performed on Friday April 26th at 9:30am.

4/26/2019

Enduring personnel was on site and complete sampling. NMOCD was not on site to witness. The three composite samples were collected and sent to the lab for analysis of BTEX, TPH and Chlorides.

4/30/2019

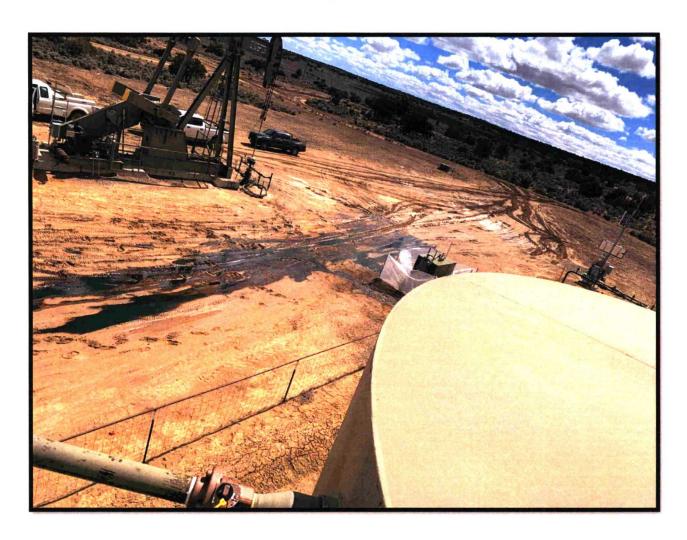
Analytical report was received and results confirmed that no further remediation is required. All excavation areas have been backfilled.



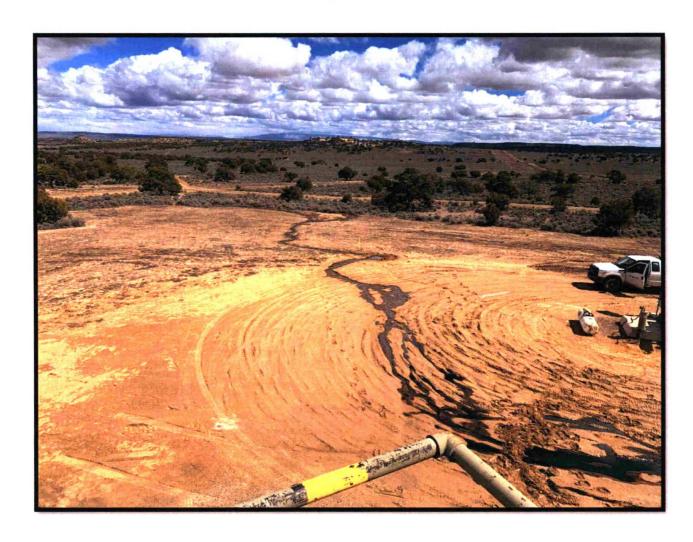
Photos: Impacted Area

















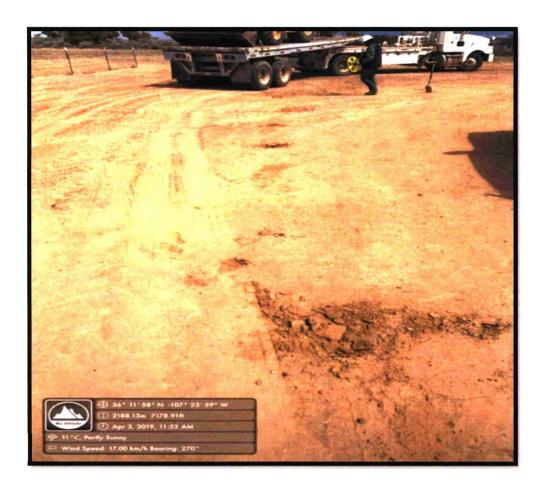




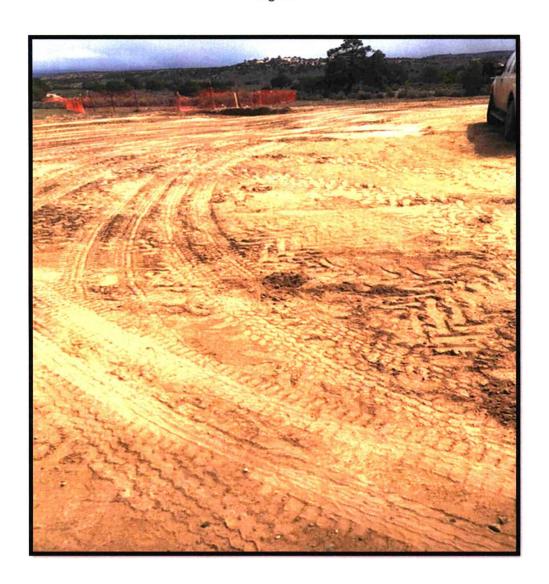
Photos: After Clean-Up















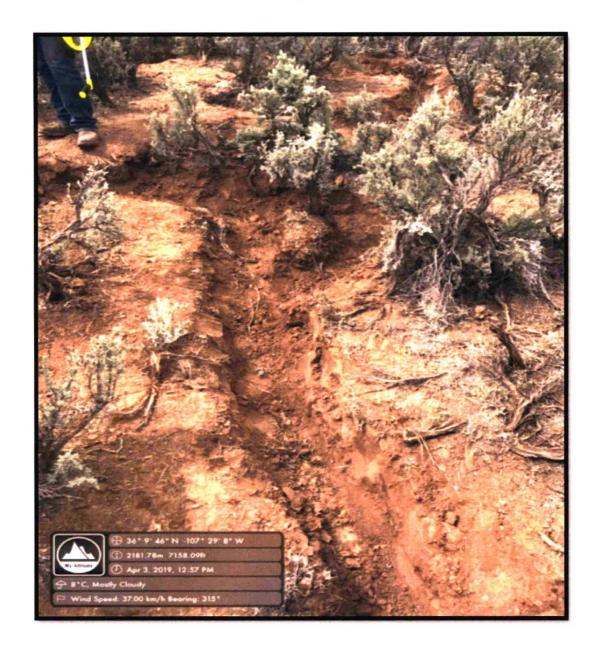












Chad Snell

From:

Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

Sent:

Thursday, April 04, 2019 11:15 AM

To:

Chad Snell

Cc:

James McDaniel

Subject:

RE: Confirmation Sampling

Follow Up Flag:

Follow up

Flag Status:

Flagged

Chad,

OCD has processed the Initial C-141 please see the highlighted below incident# use it for future communications/submitalls

NCS1909440233 LOGOS #003 @ 30-043-21135

General Incident Information

Site Name:

LOGOS #003

Well:

(30-043-21135) LOGOS #003

Facility:

Operator:

[372286] ENDURING RESOURCES, LLC

Status:

Closure Not Applicated

Type:

Oil Release

District:

Aztec

Incident Location:

P-05-28N-06W Lot:

OFNL OFEL

Lat/Long:

36.1624082,-107 486479 NAD83

What is the current status of the remediation?

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

From: Chad Snell < CSnell@enduringresources.com>

Sent: Monday, April 1, 2019 8:29 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us> Cc: James McDaniel <JMcDaniel@enduringresources.com> Subject: [EXT] Confirmation Sampling

Good Morning,

Enduring Resources will be performing sampling activities on Wednesday April 3rd 2019, starting at the Logos #3 (API: 30-043-21135, Sec: 5, Twn: 22N, 6W) at 11:00am. After the Logos 3 sampling activities are complete, Enduring will head to the MC 6 Com 160H (API: 30-039-31312, Sec: 35, Twn: 24N, Rge: 7W) and perform confirmation sampling as well. Please let us know if you have any questions.

Thank you.

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

Chad Snell

From:

Chad Snell

Sent:

Wednesday, April 24, 2019 7:21 AM

To:

'Smith, Cory, EMNRD'; Powell, Brandon, EMNRD

Cc:

James McDaniel

Subject:

Confirmation Sampling

Cory,

Enduring Resources will be performing confirmation sampling activities on Friday April 26th 2019 at the following locations.

We will start at the Logos 3 (NCS1909440233, API:30-043-21135) at 9:30 am and sample 3 sections that return results were slightly elevated and needed further excavation.

After the Logos 3 we will head to the NE Chaco Com 197H (NCS1907753213, API: 30-039-31278) and perform sampling activities as well.

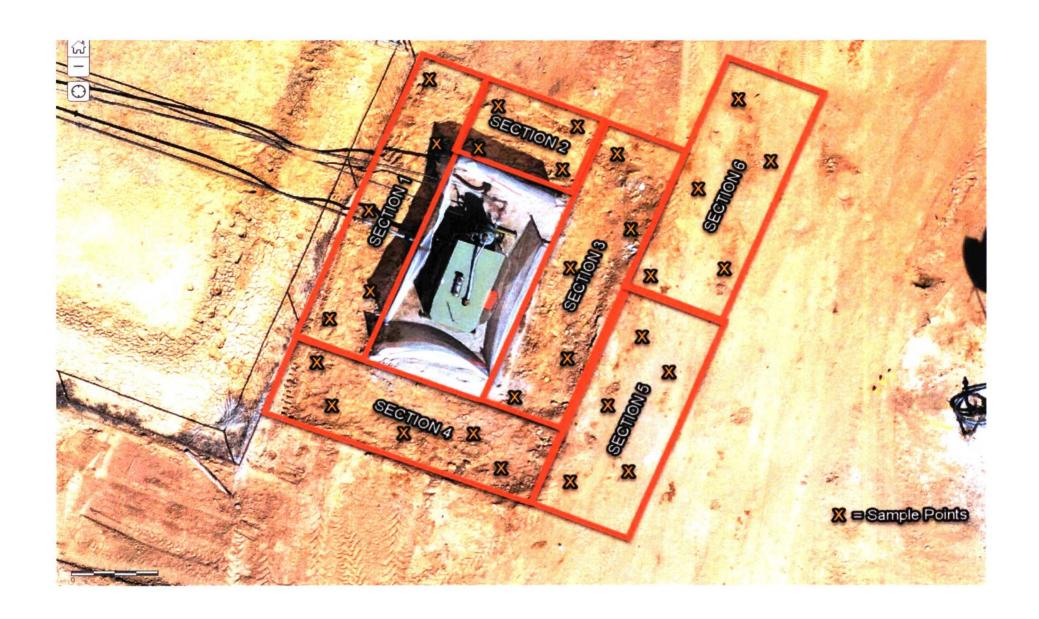
Please feel free to contact me with any questions.

Thank you,

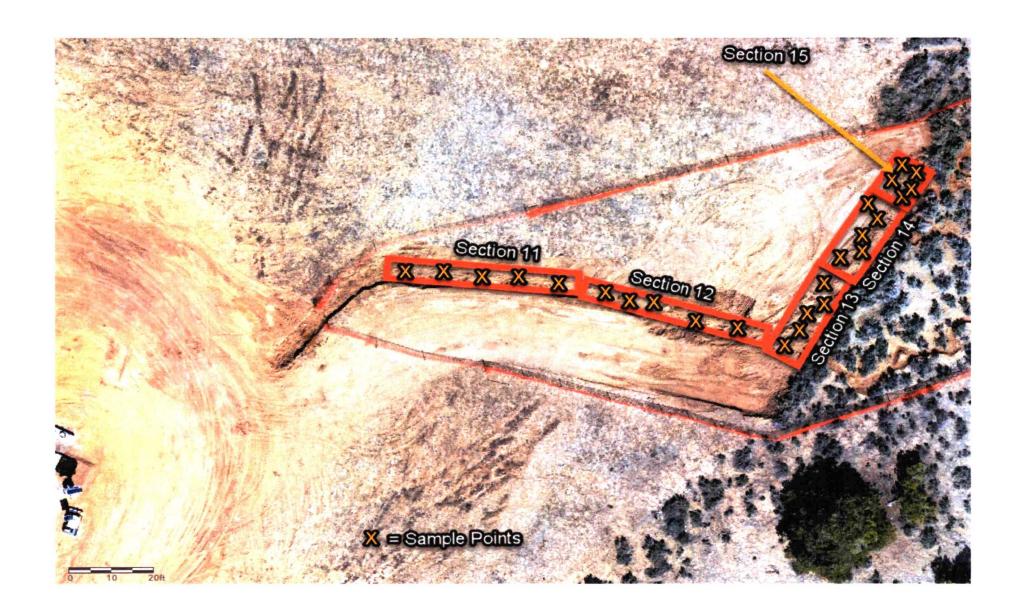
Chad Snell HSE Tech Enduring Resources (505) 444-0586.

Logos 3

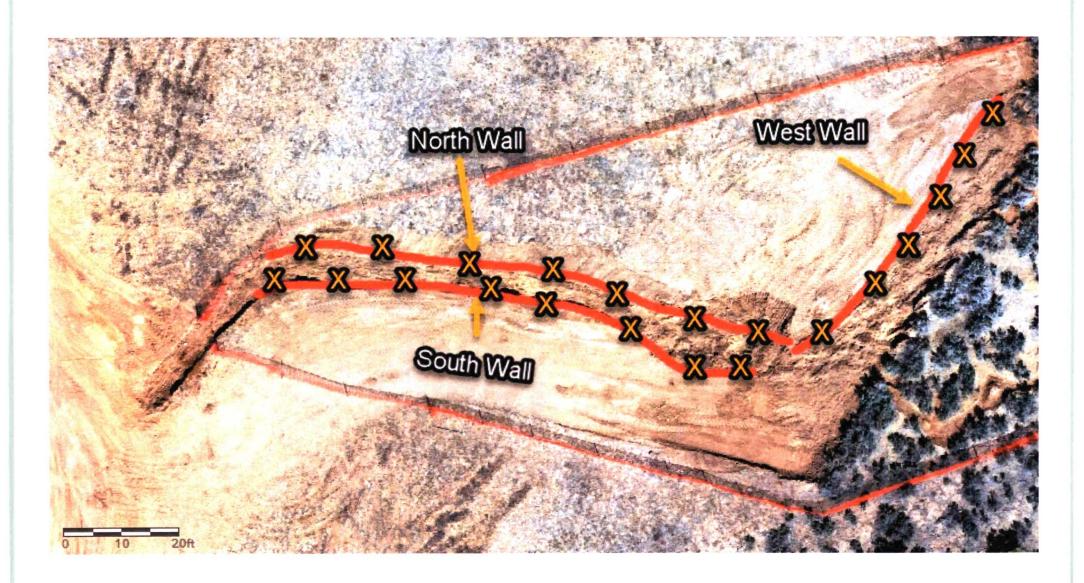
Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
	Ground Water			NA	NA	1000	NA	2500	10	NA	NA	NA	50	20,000	
STANDARD	>100ft	NA	NA	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	200 sq. ft
Section 1	Composite	4/3/2019	11:00 AM	170	0.26	170	62.7	232.7	<0.000526	<0.00526	<0.000526	<0.00158	<0.1	26.2	130
Section 2	Composite	4/3/2019	11:05 AM	730	1.03	731	212	943	<0.000534	<0.00534	<0.000534	<0.00160	<0.1	38.7	80
Section 3	Composite	4/3/2019	11:10 AM	204	0.236	204.2	72.1	276.34	<0.000539	<0.00539	<0.000539	<0.00162	<0.1	50.6	130
Section 4	Composite	4/3/2019	11:15 AM	87.1	0.219	87.3	34	121.3	<0.000622	<0.00622	<0.000622	<0.00187	<0.1	90	200
Section 5	Composite	4/3/2019	11:20 AM	359	0.253	359.2	162	521.2	<0.000540	<0.00540	<0.000540	<0.00162	<0.1	452	200
Section 6	Composite	4/3/2019	11:25 AM	634	1.51	635.5	234	869.5	<0.000610	<0.00610	<0.000610	<0.00183	<0.1	118	200
Section 7	Composite	4/3/2019	11:30 AM	9.82	<0.107	9.927	7.06	16.97	<0.000537	<0.00537	<0.000537	<0.00161	<0.1	32.5	200
Section 8	Composite	4/3/2019	11:40 AM	61.2	<0.107	61.31	29	90.307	<0.000535	<0.00535	<0.000535	<0.00161	<0.1	33.8	200
Section 9	Composite	4/3/2019	11:45 AM	83.2	<0.106	83.31	38.6	121.66	<0.000530	<0.00530	<0.000530	<0.00159	<0.1	13	200
Section 10	Composite	4/3/2019	11:50 AM	72.6	0.167	72.77	28.8	101.57	<0.000546	<0.00546	<0.000546	< 0.00164	<0.1	28.3	195
Section 11	Composite	4/3/2019	11:55 AM	257	0.931	257.9	102	359.93	<0.000540	<0.00540	<0.000540	<0.00162	<0.1	49.8	195
Section 12	Composite	4/3/2019	12:00 PM	10.3	<0.109	10.4	4.88	15.28	<0.000546	<0.00546	<0.000546	<0.00164	<0.1	12.5	99
Section 13	Composite	4/3/2019	12:05 PM	.341	0.34	341.3	128	469.34	0.0014	<0.00533	<0.000533	0.0019	<0.1	16.6	200
Section 14	Composite	4/3/2019	12:10 PM	72.7	<0.108	72.8	30	102.8	0.00112	<0.00540	<0.000540	<0.00162	<0.1	26.8	200
Section 15	Composite	4/3/2019	12:15 PM	123	<0.106	123.1	53.2	176.3	<0.000532	<0.00532	<0.000532	<0.00160	<0.1	298	78
Section 16	Composite	4/3/2019	12:20 PM	155	0.14	155.1	66.7	221.8	0.00289	<0.00549	0.000829	0.00542	<0.1	31.5	100
Section 17	Composite	4/3/2019	12:25 PM	344	1.04	345	140	485.04	0.00126	<0.00535	<0.000535	0.0139	<0.1	28.2	200
Section 18	Composite	4/3/2019	12:30 PM	3360	247	3607	1050	4657	<0.0548	0.0548	0.397	5.63	6.1366	43.6	200
Section 19	Composite	4/3/2019	12:35 PM	2380	69.1	2449	822	3271.1	<0.0133	<0.133	<0.185	2.11	2.44413	32.2	95
Section 20	Composite	4/3/2019	12:40 PM	6470	247	6717	2200	8917	<0.0538	<0.538	0.736	7.62	8.9478	175	95
Section 21	Composite	4/3/2019	12:45 PM	250	19.9	269.9	92.1	362	<0.0134	<0.134	< 0.0134	0.064	0.2248	24.9	200
North Wall	Composite	4/3/2019	12:50 PM	94.1	4.81	98.91	20.7	119.61	0.00171	0.0446	0.0363	<0.314	<0.4	47.7	195
East Wall	Composite	4/3/2019	12:55 PM	38.3	<0.105	38.4	19.1	57.5	0.00245	<0.00527	<0.000527	0.00251	<0.1	29.4	126
West Wall	Composite	4/3/2019	1:00 PM	338	0.261	338.2	120	458.2	0.00138	<0.00514	<0.000514	0.00458	<0.1	29.9	126
South Wall	Composite	4/3/2019	1:05 PM	301	4.09	305.1	101	406.09	<0.000541	<0.00541	<0.000541	<0.00502	<0.1	87.5	195
Section 18	Composite	4/26/2019	9:30 AM	<20	<20	<40	<50	<90	<0.0250	<0.0250	<0.0250	<0.0500	<0.1	<20	200
Section 19	Composite	4/26/2019	9:40 AM	. 58	<20	<78	<50	<128	<0.0250	<0.0250	<0.0250	<0.0500	<0.1	<20	95
Section 20	Composite	4/26/2019	9:50 AM	28	<20	<48	<50	<98.0	<0.0250	<0.0250	<0.0250	<0.0500	<0.1	<20	95











Ground Bed Drilling Log Company: \(\) 4374 Date: Location: Sec Ground Bed Depth: Water Depth: Diameter: Fuel Usage:_ Latitude: 36,17,50,00 FORMATION Longitude: 107.48687800 OTHER DEPTH Sand Stone, Shale, Sand w/ Shale w/ Sand Sand Stone, Shale, Sand w/ Shale w/ Sand

Sand Stone, Shale, Sand-w/ Shale w/ Sand

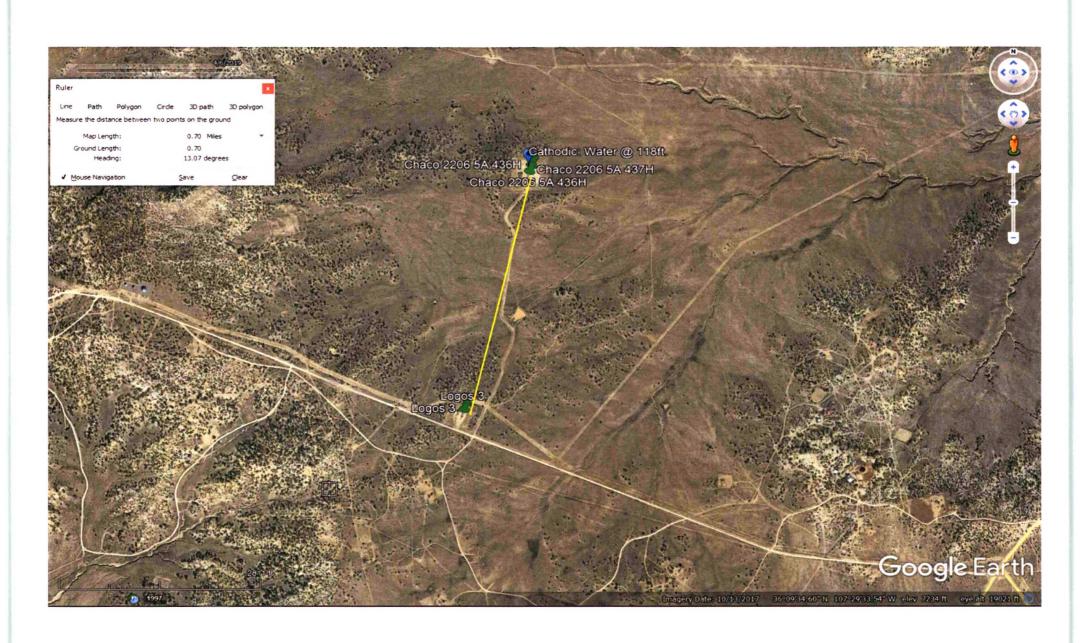
1 call#2014462679

GROUNDWATER DEPTH LOG										
Company:	WPX Energ	γ	LOCATION: Chaco = 436H /#437H							
Probe type	Distantiff:	5	<u> </u>							
		Depth	Comments							
11/18/14	10:53	120	KILL COND + TREED OUT (3) 10:55 AM							
1) 10/16	11:53	118	3/aTer							
1	9:30an	116	water level							
			•							
•										
, <u>, , , , , , , , , , , , , , , , , , </u>										

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National Flood Hazard Layer FIRMette

500

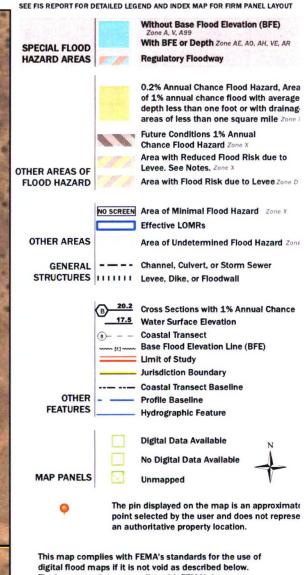
250

1,000

1,500



Legend



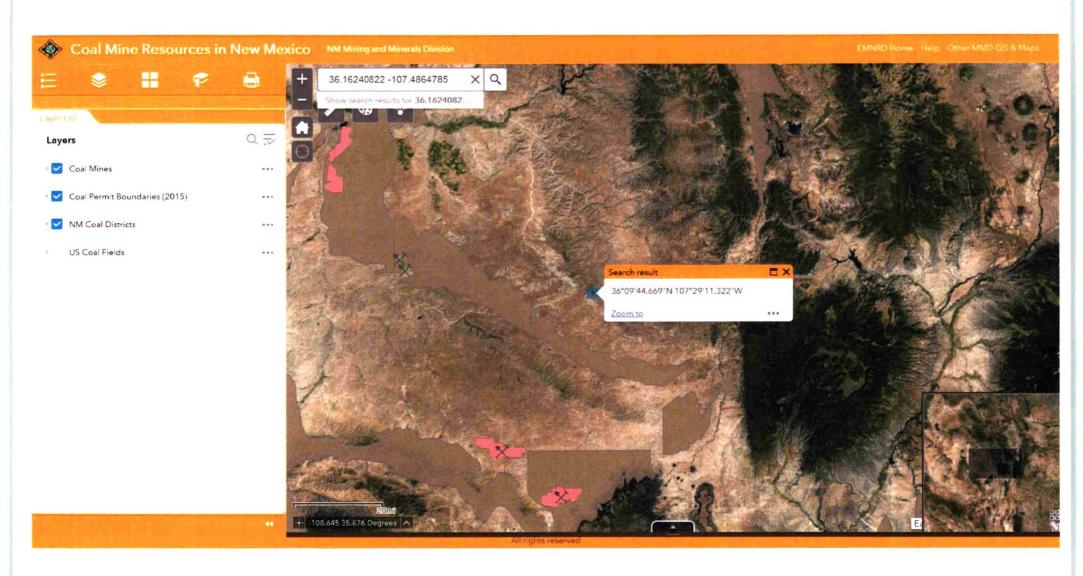
The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/12/2019 at 4:40:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

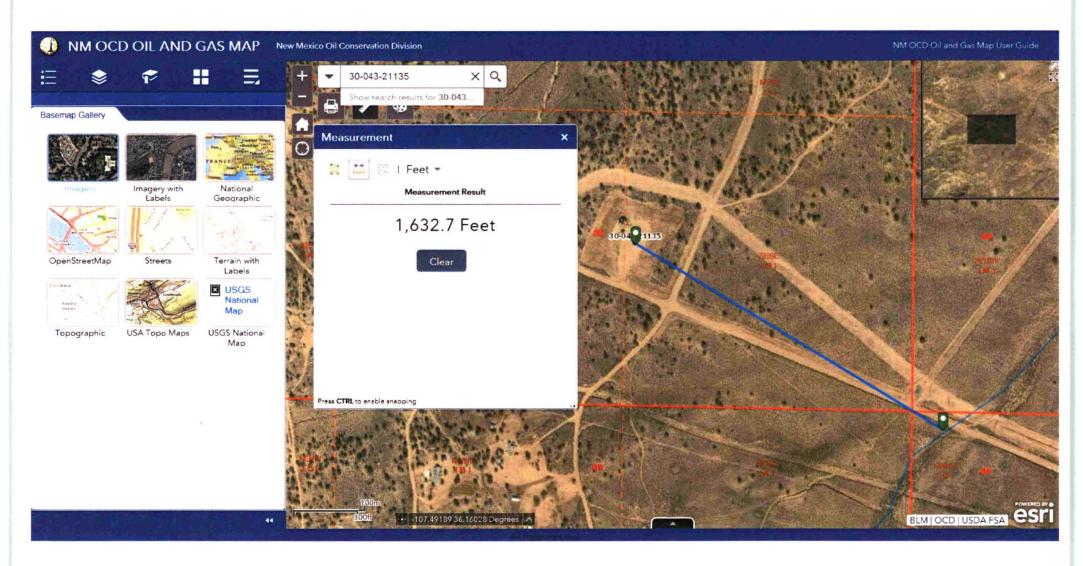
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



2,000









ANALYTICAL REPORT

April 15, 2019

Enduring Resources

Sample Delivery Group:

L1086376

Samples Received:

04/05/2019

Project Number:

Description:

Logos 3

Report To:

Chad Snell

200 Energy Court

Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards

Project Manager

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



TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



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Cn: Case Narrative	8
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			Collected by	Collected date/time			
SECTION 1 L1086376-01 Solid			Chad Snell	04/03/19 11:00	04/05/19 08	:45	_
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1264235	1	04/11/19 09:42	04/11/19 09:52	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 02:52	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262633	1	04/06/19 11:36	04/09/19 01:15	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 20:30	KME	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	ite/time	
SECTION 2 L1086376-02 Solid			Chad Snell	04/03/19 11:05	04/05/19 08	:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1264272	1	04/11/19 10:26	04/11/19 10:38	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 03:01	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262633	1	04/06/19 11:36	04/09/19 01:36	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 22:01	KME	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	5	04/10/19 09:43	04/11/19 08:50	KME	Mt. Juliet, TN	
SECTION 3 L1086376-03 Solid			Collected by Chad Snell	Collected date/time 04/03/19 11:10	Received da 04/05/19 08		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	_
Wethou	Batch	Dilution	date/time	date/time	Allalyst	Location	
Total Solids by Method 2540 G-2011	WG1264272	1	04/11/19 10:26	04/11/19 10:38	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 03:09	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262633	1	04/06/19 11:36	04/09/19 01:57	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 20:17	KME	Mt. Juliet, TN	
SECTION 4 L1086376-04 Solid			Collected by Chad Snell	Collected date/time 04/03/19 11:15	Received da 04/05/19 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	_
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 03:18	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 00:04	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 20:03	KME	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	ite/time	
SECTION 5 L1086376-05 Solid			Chad Snell	04/03/19 11:20	04/05/19 08	:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 03:43	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 00:25	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 22:14	KME	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	5	04/10/19 09:43	04/11/19 09:03	KME	Mt. Juliet, TN	
CECTION C. IACOCCATO OC. C. IV.I			Collected by Chad Snell	Collected date/time 04/03/19 11:25	Received da 04/05/19 08		
SECTION 6 L1086376-06 Solid							_
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN	
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 03:52	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 00:45	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 22:27	KME	Mt. Juliet, TN	
ACCOUNT:	PROJECT:		SDG:	DAT	E/TIME:		PAGE
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				Collected date/time		
SECTION 6 L1086376-06 Solid			Chad Snell	04/03/19 11:25	04/05/19 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	5	04/10/19 09:43	04/11/19 09:16	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SECTION 7 L1086376-07 Solid			Chad Snell	04/03/19 11:30	04/05/19 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1261880	1	04/08/19 17:15	04/09/19 04:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 01:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/11/19 08:37	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SECTION 8 L1086376-08 Solid			Chad Snell	04/03/19 11:40	04/05/19 08	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
T-4-1 C-1:1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	WC42C4240		date/time	date/time	ID	MA Julian Thi
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06 04/09/19 04:09	JD ELN	Mt. Juliet, TN Mt. Juliet, TN
Wet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021	WG1261880 WG1262720	1	04/08/19 17:15 04/06/19 11:36	04/09/19 01:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 19:50	KME	Mt. Juliet, TN
Senie-volatile organic compounds (SC) by Method 8015	WG1203401	1	04/10/15 05.45	04/10/13 13:30	KIVIL	Mt. Juliet, 114
			Collected by	Collected date/time	Received da	
SECTION 9 L1086376-09 Solid			Chad Snell	04/03/19 11:45	04/05/19 08	:45
Method	Batch	Dilution	Preparation data/time	Analysis	Analyst	Location
Total Solida by Mothad 2540 C 2011	WC12C4210		date/time	date/time	ID	Ma Julioa TNI
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 9056A	WG1264319 WG1261880	1	04/11/19 14:57 04/08/19 17:15	04/11/19 15:06 04/09/19 04:17	JD ELN	Mt. Juliet, TN Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1261880	1	04/06/19 11:36	04/09/19 01:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 19:11	KME	Mt. Juliet, TN
sem radiae organic companius (oc) by memos com	1101200101		04/10/13 03.43	0 1/10/13 13:11	KINE	me suitet, m
			Collected by	Collected date/time	Received da	
SECTION 10 L1086376-10 Solid			Chad Snell	04/03/19 11:50	04/05/19 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 11:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 02:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 19:24	KME	Mt. Juliet, TN
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			Collected by	Collected date/time	Received da	
SECTION 11 L1086376-11 Solid			Chad Snell	04/03/19 11:55	04/05/19 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 11:58	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 02:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 21:09	KME	Mt. Juliet, TN

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SECTION 12 L1086376-12 Solid			Collected by Chad Snell	Collected date/time 04/03/19 12:00	Received dat 04/05/19 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 12:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 02:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 18:45	KME	Mt. Juliet, TN
SECTION 13 L1086376-13 Solid			Collected by Chad Snell	Collected date/time 04/03/19 12:05	Received dat 04/05/19 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264319	1	04/11/19 14:57	04/11/19 15:06	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 12:15	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 03:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 21:22	KME	Mt. Juliet, TN
SECTION 14 L1086376-14 Solid			Collected by Chad Snell	Collected date/time 04/03/19 12:10	Received dat 04/05/19 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Calida hy Mathad 2540 C 2011	WC42C 4224		date/time	date/time	10	MA July-s Thi
Total Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 12:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 03:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 18:58	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
SECTION 15 L1086376-15 Solid			Chad Snell	04/03/19 12:15	04/05/19 08:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 12:32	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 03:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 20:43	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SECTION 16 L1086376-16 Solid			Chad Snell	04/03/19 12:20	04/05/19 08:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 12:40	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 04:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	1	04/10/19 09:43	04/10/19 20:56	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	
SECTION 17 L1086376-17 Solid			Chad Snell	04/03/19 12:25	04/05/19 08:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 13:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1262720	1	04/06/19 11:36	04/09/19 04:30	DWR	Mt. Juliet, TN
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			Collected by Chad Snell	Collected date/time 04/03/19 12:30	Received da 04/05/19 08:	
SECTION 18 L1086376-18 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Vet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 13:14	ST	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015/8021	WG1262720	100	04/06/19 11:36	04/09/19 05:32	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	10	04/10/19 09:43	04/10/19 22:53	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	ta/time
SECTION 19 L1086376-19 Solid			Chad Snell	04/03/19 12:35	04/05/19 08:	
fethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
let Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 13:23	ST	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015/8021	WG1262720	25	04/06/19 11:36	04/09/19 05:52	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1263461	10	04/10/19 09:43	04/10/19 23:06	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SECTION 20 L1086376-20 Solid			Chad Snell	04/03/19 12:40	04/05/19 08:	:45
M ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Vet Chemistry by Method 9056A	WG1264321 WG1262897	1	04/11/19 10:00	04/11/19 14:55	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015/8021	WG1262720	100	04/06/19 11:36	04/09/19 06:13	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1264092	10	04/11/19 06:21	04/12/19 03:56	CLG	Mt. Juliet, TN
Gemi-Volatile Organic Compounds (GC) by Method 8015	WG1264092	40	04/11/19 06:21	04/12/19 15:00	CLG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SECTION 21 L1086376-21 Solid			Chad Snell	04/03/19 12:45	04/05/19 08:	:45
fethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1264321	1	04/11/19 14:45	04/11/19 14:55	JD	Mt. Juliet, TN
Vet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 13:57	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015/8021	WG1262720	25	04/06/19 11:36	04/09/19 06:33	DWR	
emi-Volatile Organic Compounds (GC) by Method 8015	WG1262720 WG1264092	1	04/06/19 11:36	04/09/19 08:33	CLG	Mt. Juliet, TN Mt. Juliet, TN
NODTH WALL 14000270 22 Calid			Collected by	Collected date/time	Received da	
	Patch	Dilution	Chad Snell	04/03/19 12:50	04/05/19 08:	45
	Batch	Dilution	Chad Snell Preparation	04/03/19 12:50 Analysis		
Method			Chad Snell Preparation date/time	04/03/19 12:50 Analysis date/time	04/05/19 08: Analyst	Location
otal Solids by Method 2540 G-2011	WG1264321	1	Preparation date/time 04/11/19 14:45	04/03/19 12:50 Analysis date/time 04/11/19 14:55	04/05/19 08: Analyst	Location Mt. Juliet, TN
Method Total Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A	WG1264321 WG1262897	1	Preparation date/time 04/11/19 14:45 04/11/19 10:00	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06	Analyst JD ST	Location Mt. Juliet, TN Mt. Juliet, TN
Nethod Total Solids by Method 2540 G-2011 Wet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021	WG1264321 WG1262897 WG1262720	1 1 1	Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51	Analyst JD ST DWR	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method fotal Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021	WG1264321 WG1262897	1	Preparation date/time 04/11/19 14:45 04/11/19 10:00	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06	Analyst JD ST	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method fotal Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021 semi-Volatile Organic Compounds (GC) by Method 8015	WG1264321 WG1262897 WG1262720	1 1 1	Chad Snell Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time	Analyst JD ST DWR CLG Received da	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
otal Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Folatile Organic Compounds (GC) by Method 8015/8021 emi-Volatile Organic Compounds (GC) by Method 8015	WG1264321 WG1262897 WG1262720 WG1264092	1 1 1	Chad Snell Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by Chad Snell	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time 04/03/19 12:55	Analyst JD ST DWR CLG Received da 04/05/19 08:	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Total Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Tolatile Organic Compounds (GC) by Method 8015/8021 Semi-Volatile Organic Compounds (GC) by Method 8015 EAST WALL L1086376-23 Solid	WG1264321 WG1262897 WG1262720	1 1 1	Chad Snell Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time	Analyst JD ST DWR CLG Received da	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method Fotal Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021 Semi-Volatile Organic Compounds (GC) by Method 8015 EAST WALL L1086376-23 Solid Method	WG1264321 WG1262897 WG1262720 WG1264092	1 1 1	Chad Snell Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by Chad Snell Preparation	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time 04/03/19 12:55 Analysis	Analyst JD ST DWR CLG Received da 04/05/19 08:	Location Mt. Juliet, TN Location
Total Solids by Method 2540 G-2011 Vet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021 Semi-Volatile Organic Compounds (GC) by Method 8015 EAST WALL L1086376-23 Solid Method Total Solids by Method 2540 G-2011	WG1264321 WG1262897 WG1262720 WG1264092	1 1 1 1	Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by Chad Snell Preparation date/time	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time 04/03/19 12:55 Analysis date/time	Analyst JD ST DWR CLG Received da 04/05/19 08:	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Location Mt. Juliet, TN
Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021 Semi-Volatile Organic Compounds (GC) by Method 8015 EAST WALL L1086376-23 Solid Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 9056A Volatile Organic Compounds (GC) by Method 8015/8021	WG1264321 WG1262897 WG1262720 WG1264092 Batch	1 1 1 1 Dilution	Chad Snell Preparation date/time 04/11/19 14:45 04/11/19 10:00 04/06/19 11:36 04/11/19 06:21 Collected by Chad Snell Preparation date/time 04/11/19 14:45	04/03/19 12:50 Analysis date/time 04/11/19 14:55 04/11/19 14:06 04/09/19 04:51 04/12/19 02:51 Collected date/time 04/03/19 12:55 Analysis date/time 04/11/19 14:55	Analyst JD ST DWR CLG Received da 04/05/19 08:	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN

ACCOUNT: Enduring Resources PROJECT:

SDG: L1086376 **DATE/TIME**: 04/15/19 07:09

PAGE: 6 of 53

ONE LAB. NATIONWIDE.



WEST WALL 14000070 04 0 11 1			Collected by Chad Snell	Collected date/time 04/03/19 13:00	Received da 04/05/19 08:	
WEST WALL L1086376-24 Solid			Chad Shell	04/03/13 13:00	04/03/15 00.	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1264322	1	04/11/19 14:34	04/11/19 14:41	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 14:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1263923	1	04/06/19 11:36	04/11/19 13:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1264092	1	04/11/19 06:21	04/12/19 03:30	CLG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1264092	5	04/11/19 06:21	04/12/19 14:47	CLG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SOUTH WALL L1086376-25 Solid			Chad Snell	04/03/19 13:05	04/05/19 08	45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1264322	1	04/11/19 14:34	04/11/19 14:41	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1262897	1	04/11/19 10:00	04/11/19 14:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1263923	1	04/06/19 11:36	04/11/19 13:58	ВМВ	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1264092	1	04/11/19 06:21	04/12/19 03:43	CLG	Mt. Juliet, TN

























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



















Daphne Richards Project Manager

Dapline R Richards

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	95.1		1	04/11/2019 09:52	WG1264235



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	26.2	B	10.5	1	04/09/2019 02:52	WG1261880



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Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000526	1	04/09/2019 01:15	WG1262633
Toluene	ND		0.00526	1	04/09/2019 01:15	WG1262633
Ethylbenzene	ND		0.000526	1	04/09/2019 01:15	WG1262633
Total Xylene	ND		0.00158	1	04/09/2019 01:15	WG1262633
TPH (GC/FID) Low Fraction	0.260		0.105	1	04/09/2019 01:15	WG1262633
(S) a,a,a-Trifluorotoluene(FID)	91.0		77.0-120		04/09/2019 01:15	WG1262633
(S) a,a,a-Trifluorotoluene(PID)	93.7		72.0-128		04/09/2019 01:15	WG1262633



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	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	170		4.21	1	04/10/2019 20:30	WG1263461
C28-C40 Oil Range	62.7		4.21	1	04/10/2019 20:30	WG1263461
(S) o-Terphenyl	63.9		18.0-148		04/10/2019 20:30	WG1263461

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 11:05

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.7		1	04/11/2019 10:38	WG1264272





Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	38.7	В	10.7	1	04/09/2019 03:01	WG1261880



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000543		0.000534	1	04/09/2019 01:36	WG1262633
Toluene	ND		0.00534	1	04/09/2019 01:36	WG1262633
Ethylbenzene	ND		0.000534	1	04/09/2019 01:36	WG1262633
Total Xylene	ND		0.00160	1	04/09/2019 01:36	WG1262633
TPH (GC/FID) Low Fraction	1.03		0.107	1	04/09/2019 01:36	WG1262633
(S) a,a,a-Trifluorotoluene(FID)	90.6		77.0-120		04/09/2019 01:36	WG1262633
(S) a,a,a-Trifluorotoluene(PID)	92.6		72.0-128		04/09/2019 01:36	WG1262633





	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	730		21.4	5	04/11/2019 08:50	WG1263461
C28-C40 Oil Range	212		4.27	1	04/10/2019 22:01	WG1263461
(S) o-Terphenyl	130		18.0-148		04/10/2019 22:01	WG1263461
(S) o-Terphenyl	108		18.0-148		04/11/2019 08:50	WG1263461

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.

L1086376

Collected date/time: 04/03/19 11:10



	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.7		1	04/11/2019 10:38	WG1264272







	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	50.6		10.8	1	04/09/2019 03:09	WG1261880





Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000539	1	04/09/2019 01:57	WG1262633
Toluene	ND		0.00539	1	04/09/2019 01:57	WG1262633
Ethylbenzene	ND		0.000539	1	04/09/2019 01:57	WG1262633
Total Xylene	ND		0.00162	1	04/09/2019 01:57	WG1262633
TPH (GC/FID) Low Fraction	0.236		0.108	1	04/09/2019 01:57	WG1262633
(S) a,a,a-Trifluorotoluene(FID)	91.1		77.0-120		04/09/2019 01:57	WG1262633
(S) a,a,a-Trifluorotoluene(PID)	94.6		72.0-128		04/09/2019 01:57	WG1262633





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		Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
An	alyte	mg/kg		mg/kg		date / time	
C1	O-C28 Diesel Range	204		4.31	1	04/10/2019 20:17	WG1263461
C2	8-C40 Oil Range	72.1		4.31	1	04/10/2019 20:17	WG1263461
	(S) o-Terphenyl	61.4		18.0-148		04/10/2019 20:17	WG1263461

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 11:15



	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.4		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (ary)	Qualifier	RUL (ary)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	90.0		12.4	1	04/09/2019 03:18	WG1261880



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000622	1	04/09/2019 00:04	WG1262720
Toluene	ND		0.00622	1	04/09/2019 00:04	WG1262720
Ethylbenzene	ND		0.000622	1	04/09/2019 00:04	WG1262720
Total Xylene	ND		0.00187	1	04/09/2019 00:04	WG1262720
TPH (GC/FID) Low Fraction	0.219	B	0.124	1	04/09/2019 00:04	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 00:04	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.8		72.0-128		04/09/2019 00:04	WG1262720



		Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte		mg/kg		mg/kg		date / time	
C10-C28 Di	iesel Range	87.1		4.98	1	04/10/2019 20:03	WG1263461
C28-C40 O	il Range	34.0		4.98	1	04/10/2019 20:03	WG1263461
(S) o-Ter	phenyl	48.4		18.0-148		04/10/2019 20:03	WG1263461

SAMPLE RESULTS - 05

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.6		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	452		10.8	1	04/09/2019 03:43	WG1261880



Cn

Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000540	1	04/09/2019 00:25	WG1262720
Toluene	ND		0.00540	1	04/09/2019 00:25	WG1262720
Ethylbenzene	ND		0.000540	1	04/09/2019 00:25	WG1262720
Total Xylene	ND		0.00162	1	04/09/2019 00:25	WG1262720
TPH (GC/FID) Low Fraction	0.253	B	0.108	1	04/09/2019 00:25	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 00:25	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	94.9		72.0-128		04/09/2019 00:25	WG1262720



GI

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	359		21.6	5	04/11/2019 09:03	WG1263461
C28-C40 Oil Range	162		4.32	1	04/10/2019 22:14	WG1263461
(S) o-Terphenyl	91.6		18.0-148		04/10/2019 22:14	WG1263461
(S) o-Terphenyl	75.8		18.0-148		04/11/2019 09:03	WG1263461

SAMPLE RESULTS - 06

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 11:25

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.9		1	04/11/2019 15:06	WG1264319





Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	118		12.2	1	04/09/2019 03:52	WG1261880





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Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000610	1	04/09/2019 00:45	WG1262720
Toluene	ND		0.00610	1	04/09/2019 00:45	WG1262720
Ethylbenzene	ND		0.000610	1	04/09/2019 00:45	WG1262720
Total Xylene	0.0187		0.00183	1	04/09/2019 00:45	WG1262720
TPH (GC/FID) Low Fraction	1.51		0.122	1	04/09/2019 00:45	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	85.7		77.0-120		04/09/2019 00:45	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	87.1		72.0-128		04/09/2019 00:45	WG1262720





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	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	634		24.4	5	04/11/2019 09:16	WG1263461
C28-C40 Oil Range	234		4.88	1	04/10/2019 22:27	WG1263461
(S) o-Terphenyl	70.3		18.0-148		04/11/2019 09:16	WG1263461
(S) o-Terphenyl	87.2		18.0-148		04/10/2019 22:27	WG1263461

SAMPLE RESULTS - 07

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.1		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	32.5	В	10.7	1	04/09/2019 04:00	WG1261880



Cn

Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000537	1	04/09/2019 01:06	WG1262720
Toluene	ND		0.00537	1	04/09/2019 01:06	WG1262720
Ethylbenzene	ND		0.000537	1	04/09/2019 01:06	WG1262720
Total Xylene	ND		0.00161	1	04/09/2019 01:06	WG1262720
TPH (GC/FID) Low Fraction	ND		0.107	1	04/09/2019 01:06	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 01:06	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.5		72.0-128		04/09/2019 01:06	WG1262720



GI

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	9.82		4.30	1	04/11/2019 08:37	WG1263461
C28-C40 Oil Range	7.06		4.30	1	04/11/2019 08:37	WG1263461
(S) o-Terphenyl	66.6		18.0-148		04/11/2019 08:37	WG1263461

SAMPLE RESULTS - 08

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 11:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.4		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	33.8	В	10.7	1	04/09/2019 04:09	WG1261880



Ss

Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000535	1	04/09/2019 01:26	WG1262720
Toluene	ND		0.00535	1	04/09/2019 01:26	WG1262720
Ethylbenzene	ND		0.000535	1	04/09/2019 01:26	WG1262720
Total Xylene	ND		0.00161	1	04/09/2019 01:26	WG1262720
TPH (GC/FID) Low Fraction	ND		0.107	1	04/09/2019 01:26	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		04/09/2019 01:26	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	97.0		72.0-128		04/09/2019 01:26	WG1262720



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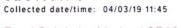
Sc

GI

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	61.2		4.28	1	04/10/2019 19:50	WG1263461
C28-C40 Oil Range	29.0		4.28	1	04/10/2019 19:50	WG1263461
(S) o-Terphenyl	51.2		18.0-148		04/10/2019 19:50	WG1263461

SAMPLE RESULTS - 09

ONE LAB. NATIONWIDE.

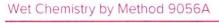




	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.3		1	04/11/2019 15:06	WG1264319







	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	13.0	BP1	10.6	1	04/09/2019 04:17	WG1261880





Volatile Organic Compounds (GC) by Method 8015/8021

Benzene 0.000724 0.000530 1 04/09/2019 01:47 WG1262720 Foluene ND 0.00530 1 04/09/2019 01:47 WG1262720 Ethylbenzene ND 0.000530 1 04/09/2019 01:47 WG1262720 Fotal Xylene ND 0.00159 1 04/09/2019 01:47 WG1262720 IPH (GC/FID) Low Fraction ND 0.106 1 04/09/2019 01:47 WG1262720 (S) α,α,α-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720		Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Foluene ND 0.00530 1 04/09/2019 01:47 WG1262720 Ethylbenzene ND 0.000530 1 04/09/2019 01:47 WG1262720 Fotal Xylene ND 0.00159 1 04/09/2019 01:47 WG1262720 IPH (GC/FID) Low Fraction ND 0.106 1 04/09/2019 01:47 WG1262720 (S) α,α,α-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720	Analyte	mg/kg		mg/kg		date / time	
Ethylbenzene ND 0.000530 1 04/09/2019 01:47 WG1262720 Fotal Xylene ND 0.00159 1 04/09/2019 01:47 WG1262720 IPH (GC/FID) Low Fraction ND 0.106 1 04/09/2019 01:47 WG1262720 (S) a,a,a-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720	Benzene	0.000724		0.000530	1	04/09/2019 01:47	WG1262720
Fotal Xylene ND 0.00159 1 04/09/2019 01:47 WG1262720 IPH (GC/FID) Low Fraction ND 0.106 1 04/09/2019 01:47 WG1262720 (S) a,a,a-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720	Toluene	ND		0.00530	1	04/09/2019 01:47	WG1262720
ΓΡΗ (GC/FID) Low Fraction ND 0.106 1 04/09/2019 01:47 WG1262720 (S) α,α,α-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720	Ethylbenzene	ND		0.000530	1	04/09/2019 01:47	WG1262720
(S) a,a,a-Trifluorotoluene(FID) 102 77.0-120 04/09/2019 01:47 WG1262720	Total Xylene	ND		0.00159	1	04/09/2019 01:47	WG1262720
	TPH (GC/FID) Low Fraction	ND		0.106	1	04/09/2019 01:47	WG1262720
(S) a a a Trifluorotoluene(PID) 05.0 72.0.129 04/09/2019.01-47 WG1363730	(S) a,a,a-Trifluorotoluene(FID)	102		77.0-120		04/09/2019 01:47	WG1262720
(5) 6, d, 6-11 Individual Electrol 33.5 72.0-128 04/03/2013 01.47 W61202720	(S) a,a,a-Trifluorotoluene(PID)	95.9		72.0-128		04/09/2019 01:47	WG1262720



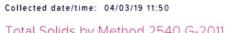




	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	83.2		4.24	1	04/10/2019 19:11	WG1263461
C28-C40 Oil Range	38.6		4.24	1	04/10/2019 19:11	WG1263461
(S) o-Terphenyl	50.5		18.0-148		04/10/2019 19:11	WG1263461

SAMPLE RESULTS - 10

ONE LAB. NATIONWIDE.



Total Solids by	Method 2540 0-2	2011		
	Result	Qualifier	Dilution	
Analyte	%			1

Analysis Batch date / time

Total Solids 91.6 04/11/2019 15:06 WG1264319 1

Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	28.3	В	10.9	1	04/11/2019 11:41	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000546	1	04/09/2019 02:07	WG1262720
Toluene	ND		0.00546	1	04/09/2019 02:07	WG1262720
Ethylbenzene	ND		0.000546	1	04/09/2019 02:07	WG1262720
Total Xylene	ND		0.00164	1	04/09/2019 02:07	WG1262720
TPH (GC/FID) Low Fraction	0.167	В	0.109	1	04/09/2019 02:07	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 02:07	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.8		72.0- 12 8		04/09/2019 02:07	WG1262720



	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	72.6		4.37	1	04/10/2019 19:24	WG1263461
C28-C40 Oil Range	28.8		4.37	1	04/10/2019 19:24	WG1263461
(S) o-Terphenyl	57.2		18.0-148		04/10/2019 19:24	WG1263461

SAMPLE RESULTS - 11

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 11:55

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.6		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	49.8		10.8	1	04/11/2019 11:58	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

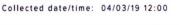
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000610		0.000540	1	04/09/2019 02:28	WG1262720
Toluene	ND		0.00540	1	04/09/2019 02:28	WG1262720
Ethylbenzene	ND		0.000540	1	04/09/2019 02:28	WG1262720
Total Xylene	ND		0.00162	1	04/09/2019 02:28	WG1262720
TPH (GC/FID) Low Fraction	0.931		0.108	1	04/09/2019 02:28	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 02:28	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.6		72.0-128		04/09/2019 02:28	WG1262720



	Dogult (dn.)	Qualifier	DDI (dn)	Dilution	Analysis	Datch
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	257		4.32	1	04/10/2019 21:09	WG1263461
C28-C40 Oil Range	102		4.32	1	04/10/2019 21:09	WG1263461
(S) o-Terphenyl	71.3		18.0-148		04/10/2019 21:09	WG1263461

SAMPLE RESULTS - 12

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.6		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	12.5	В	10.9	1	04/11/2019 12:06	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000546	1	04/09/2019 02:48	WG1262720
Toluene	ND		0.00546	1	04/09/2019 02:48	WG1262720
Ethylbenzene	ND		0.000546	1	04/09/2019 02:48	WG1262720
Total Xylene	ND		0.00164	1	04/09/2019 02:48	WG1262720
TPH (GC/FID) Low Fraction	ND		0.109	1	04/09/2019 02:48	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		04/09/2019 02:48	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	96.6		72.0-128		04/09/2019 02:48	WG1262720



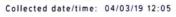
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	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	10.3		4.37	1	04/10/2019 18:45	WG1263461
C28-C40 Oil Range	4.88		4.37	1	04/10/2019 18:45	WG1263461
(S) o-Terphenyl	64.9		18.0-148		04/10/2019 18:45	WG1263461

SAMPLE RESULTS - 13

ONE LAB. NATIONWIDE.





Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.9		1	04/11/2019 15:06	WG1264319



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	16.6	В	10.7	1	04/11/2019 12:15	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00140		0.000533	1	04/09/2019 03:08	WG1262720
Toluene	ND		0.00533	1	04/09/2019 03:08	WG1262720
Ethylbenzene	ND		0.000533	1	04/09/2019 03:08	WG1262720
Total Xylene	0.00190		0.00160	1	04/09/2019 03:08	WG1262720
TPH (GC/FID) Low Fraction	0.340		0.107	1	04/09/2019 03:08	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 03:08	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.5		72.0-128		04/09/2019 03:08	WG1262720



	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	341	J3 V	4.26	1	04/10/2019 21:22	WG1263461
C28-C40 Oil Range	128		4.26	1	04/10/2019 21:22	WG1263461
(S) o-Terphenyl	80.1		18.0-148		04/10/2019 21:22	WG1263461

SAMPLE RESULTS - 14

ONE LAB. NATIONWIDE.

L1086376

Collected date/time: 04/03/19 12:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.5		1	04/11/2019 14:55	WG1264321







	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	26.8	B	10.8	1	04/11/2019 12:23	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00112		0.000540	1	04/09/2019 03:29	WG1262720
Toluene	ND		0.00540	1	04/09/2019 03:29	WG1262720
Ethylbenzene	ND		0.000540	1	04/09/2019 03:29	WG1262720
Total Xylene	ND		0.00162	1	04/09/2019 03:29	WG1262720
TPH (GC/FID) Low Fraction	ND		0.108	1	04/09/2019 03:29	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 03:29	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	96.4		72.0-128		04/09/2019 03:29	WG1262720





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	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	72.7		4.32	1	04/10/2019 18:58	WG1263461
C28-C40 Oil Range	30.0		4.32	1	04/10/2019 18:58	WG1263461
(S) o-Terphenyl	47.7		18.0-148		04/10/2019 18:58	WG1263461

SAMPLE RESULTS - 15

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 12:15

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.9		1	04/11/2019 14:55	WG1264321





	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	298		10.6	1	04/11/2019 12:32	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000532	1	04/09/2019 03:49	WG1262720
Toluene	ND		0.00532	1	04/09/2019 03:49	WG1262720
Ethylbenzene	ND		0.000532	1	04/09/2019 03:49	WG1262720
Total Xylene	ND		0.00160	1	04/09/2019 03:49	WG1262720
TPH (GC/FID) Low Fraction	ND		0.106	1	04/09/2019 03:49	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	102		77.0-120		04/09/2019 03:49	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	96.0		72.0-128		04/09/2019 03:49	WG1262720



	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	123		4.26	1	04/10/2019 20:43	WG1263461	
C28-C40 Oil Range	53.2		4.26	1	04/10/2019 20:43	WG1263461	
(S) o-Terphenyl	51.8		18.0-148		04/10/2019 20:43	WG1263461	

SAMPLE RESULTS - 16

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 12:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.1		1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (ary)	Qualifier	RDL (ary)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	31.5	В	11.0	1	04/11/2019 12:40	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00289		0.000549	1	04/09/2019 04:10	WG1262720
Toluene	ND		0.00549	1	04/09/2019 04:10	WG1262720
Ethylbenzene	0.000829		0.000549	1	04/09/2019 04:10	WG1262720
Total Xylene	0.00542		0.00165	1	04/09/2019 04:10	WG1262720
TPH (GC/FID) Low Fraction	0.140	B	0.110	1	04/09/2019 04:10	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		04/09/2019 04:10	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.5		72.0-128		04/09/2019 04:10	WG1262720

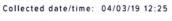


	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	155		4.39	1	04/10/2019 20:56	WG1263461
C28-C40 Oil Range	66.7		4.39	1	04/10/2019 20:56	WG1263461
(S) o-Terphenyl	62.3		18.0-148		04/10/2019 20:56	WG1263461

SAMPLE RESULTS - 17

ONE LAB. NATIONWIDE.





Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.4		1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	28.2	B	10.7	1	04/11/2019 13:06	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00126		0.000535	1	04/09/2019 04:30	WG1262720
Toluene	ND		0.00535	1	04/09/2019 04:30	WG1262720
Ethylbenzene	ND		0.000535	1	04/09/2019 04:30	WG1262720
Total Xylene	0.0139		0.00161	1	04/09/2019 04:30	WG1262720
TPH (GC/FID) Low Fraction	1.04		0.107	1	04/09/2019 04:30	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	99.9		77.0-120		04/09/2019 04:30	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.4		72.0-128		04/09/2019 04:30	WG1262720



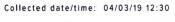


	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	344		4.28	1	04/10/2019 22:40	WG1263461
C28-C40 Oil Range	140		4.28	1	04/10/2019 22:40	WG1263461
(S) o-Terphenyl	77.9		18.0-148		04/10/2019 22:40	WG1263461

SAMPLE RESULTS - 18

ONE LAB. NATIONWIDE.





Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.2		1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (ary)	Qualifier	RDL (ary)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	43.6		11.0	1	04/11/2019 13:14	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.0548	100	04/09/2019 05:32	WG1262720
Toluene	ND		0.548	100	04/09/2019 05:32	WG1262720
Ethylbenzene	0.397		0.0548	100	04/09/2019 05:32	WG1262720
Total Xylene	5.63		0.165	100	04/09/2019 05:32	WG1262720
TPH (GC/FID) Low Fraction	247		11.0	100	04/09/2019 05:32	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		04/09/2019 05:32	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	98.0		72.0-128		04/09/2019 05:32	WG1262720



Sample Narrative:

L1086376-18 WG1262720: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	3360		43.9	10	04/10/2019 22:53	WG1263461
C28-C40 Oil Range	1050		43.9	10	04/10/2019 22:53	WG1263461
(S) o-Terphenyl	284	<u>J1</u>	18.0- 14 8		04/10/2019 22:53	WG1263461

Sample Narrative:

L1086376-18 WG1263461: Surrogate failure due to matrix interference













SAMPLE RESULTS - 19

ONE LAB. NATIONWIDE.

L1086376

Collected date/time: 04/03/19 12:35

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.1		1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	32.2		10.6	1	04/11/2019 13:23	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.0133	25	04/09/2019 05:52	WG1262720
Toluene	ND		0.133	25	04/09/2019 05:52	WG1262720
Ethylbenzene	0.185		0.0133	25	04/09/2019 05:52	WG1262720
Total Xylene	2.11		0.0398	25	04/09/2019 05:52	WG1262720
TPH (GC/FID) Low Fraction	69.1		2.66	25	04/09/2019 05:52	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	105		77.0-120		04/09/2019 05:52	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	99.0		72.0-128		04/09/2019 05:52	WG1262720



Sample Narrative:

L1086376-19 WG1262720: Non-target compounds too high to run at a lower dilution.



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	2380		42.5	10	04/10/2019 23:06	WG1263461
C28-C40 Oil Range	822		42.5	10	04/10/2019 23:06	WG1263461
(S) o-Terphenyl	212	<u>J1</u>	18.0-148		04/10/2019 23:06	WG1263461

Sample Narrative:

L1086376-19 WG1263461: Surrogate failure due to matrix interference

04/15/19 07:09

SAMPLE RESULTS - 20

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 12:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.9		1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	175		10.8	1	04/11/2019 13:48	WG1262897



Cn

Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.0538	100	04/09/2019 06:13	WG1262720
Toluene	ND		0.538	100	04/09/2019 06:13	WG1262720
Ethylbenzene	0.736		0.0538	100	04/09/2019 06:13	WG1262720
Total Xylene	7.62		0.161	100	04/09/2019 06:13	WG1262720
TPH (GC/FID) Low Fraction	247		10.8	100	04/09/2019 06:13	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	102		77.0-120		04/09/2019 06:13	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	97.4		72.0-128		04/09/2019 06:13	WG1262720



⁸Al

GI



Sample Narrative:

L1086376-20 WG1262720: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6470		172	40	04/12/2019 15:00	WG1264092
C28-C40 Oil Range	2200		43.0	10	04/12/2019 03:56	WG1264092
(S) o-Terphenyl	342	<u>J1</u>	18.0-148		04/12/2019 03:56	WG1264092
(S) o-Terphenyl	0.000	<u>J7</u>	18.0-148		04/12/2019 15:00	WG1264092

Sample Narrative:

L1086376-20 WG1264092: Surrogate failure due to matrix interference

SAMPLE RESULTS - 21

ONE LAB. NATIONWIDE.

Collected date/time: 04/03/19 12:45

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.1		1	04/11/2019 14:55	WG1264321





Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	24.9	В	10.7	1	04/11/2019 13:57	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.0134	25	04/09/2019 06:33	WG1262720
Toluene	ND		0.134	25	04/09/2019 06:33	WG1262720
Ethylbenzene	ND		0.0134	25	04/09/2019 06:33	WG1262720
Total Xylene	0.0640		0.0403	25	04/09/2019 06:33	WG1262720
TPH (GC/FID) Low Fraction	19.9		2.69	25	04/09/2019 06:33	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		04/09/2019 06:33	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		04/09/2019 06:33	WG1262720







Sample Narrative:

L1086376-21 WG1262720: Non-target compounds too high to run at a lower dilution.

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	250		4.30	1	04/12/2019 03:17	WG1264092
C28-C40 Oil Range	92.1		4.30	1	04/12/2019 03:17	WG1264092
(S) o-Terphenyl	43.2		18.0-148		04/12/2019 03:17	WG1264092

NORTH WALL

SAMPLE RESULTS - 22

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 12:50

Total Solids by Method 2540 G-2011

R	Result Qualifier	Dilution	Analysis	Batch
Analyte %	%		date / time	
Total Solids 8	81.0	1	04/11/2019 14:55	WG1264321



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	47.7		12.3	1	04/11/2019 14:06	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00171		0.000617	1	04/09/2019 04:51	WG1262720
Toluene	0.0446		0.00617	1	04/09/2019 04:51	WG1262720
Ethylbenzene	0.0363		0.000617	1	04/09/2019 04:51	WG1262720
Total Xylene	0.314		0.00185	1	04/09/2019 04:51	WG1262720
TPH (GC/FID) Low Fraction	4.81		0.123	1	04/09/2019 04:51	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	88.0		77.0-120		04/09/2019 04:51	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	90.7		72.0-128		04/09/2019 04:51	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	88.0		77.0-120	1	04/09/2019 04:51	WG1262720



GI

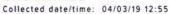
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	94.1		4.94	1	04/12/2019 02:51	WG1264092
C28-C40 Oil Range	20.7		4.94	1	04/12/2019 02:51	WG1264092
(S) o-Terphenyl	29.5		18.0-148		04/12/2019 02:51	WG1264092



EAST WALL

SAMPLE RESULTS - 23

ONE LAB. NATIONWIDE.



	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.9		1	04/11/2019 14:55	WG1264321

СР

Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	29.4	В	10.5	1	04/11/2019 14:14	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00245		0.000527	1	04/09/2019 05:11	WG1262720
Toluene	ND		0.00527	1	04/09/2019 05:11	WG1262720
Ethylbenzene	ND		0.000527	1	04/09/2019 05:11	WG1262720
Total Xylene	0.00251		0.00158	1	04/09/2019 05:11	WG1262720
TPH (GC/FID) Low Fraction	ND		0.105	1	04/09/2019 05:11	WG1262720
(S) a,a,a-Trifluorotoluene(FID)	99.8		77.0-120		04/09/2019 05:11	WG1262720
(S) a,a,a-Trifluorotoluene(PID)	95.6		72.0-128		04/09/2019 05:11	WG1262720



		Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	Analyte	mg/kg		mg/kg		date / time	
(C10-C28 Diesel Range	38.3		4.22	1	04/12/2019 03:04	WG1264092
(C28-C40 Oil Range	19.1		4.22	1	04/12/2019 03:04	WG1264092
	(S) o-Terphenyl	45.8		18.0-148		04/12/2019 03:04	WG1264092

WEST WALL

SAMPLE RESULTS - 24

ONE LAB. NATIONWIDE.

L1086376

Collected date/time: 04/03/19 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	97.2		1	04/11/2019 14:41	WG1264322



Wet Chemistry by Method 9056A

	Result (ary)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	29.9	В	10.3	1	04/11/2019 14:23	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00138		0.000514	1	04/11/2019 13:37	WG1263923
Toluene	ND		0.00514	1	04/11/2019 13:37	WG1263923
Ethylbenzene	ND		0.000514	1	04/11/2019 13:37	WG1263923
Total Xylene	0.00458		0.00154	1	04/11/2019 13:37	WG1263923
TPH (GC/FID) Low Fraction	0.261		0.103	1	04/11/2019 13:37	WG1263923
(S) a,a,a-Trifluorotoluene(FID)	90.3		77.0-120		04/11/2019 13:37	WG1263923
(S) a,a,a-Trifluorotoluene(PID)	93.6		72.0-128		04/11/2019 13:37	WG1263923



	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	338		20.6	5	04/12/2019 14:47	WG1264092
C28-C40 Oil Range	120		4.11	1	04/12/2019 03:30	WG1264092
(S) o-Terphenyl	51.2		18.0-148		04/12/2019 03:30	WG1264092
(S) o-Terphenyl	67.1		18.0-148		04/12/2019 14:47	WG1264092





SOUTH WALL

SAMPLE RESULTS - 25

ONE LAB. NATIONWIDE.



Collected date/time: 04/03/19 13:05

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	92.4		1	04/11/2019 14:41	WG1264322



Wet Chemistry by Method 9056A

	Result (ary)	Qualifier	RDL (ary)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	87.5		10.8	1	04/11/2019 14:48	WG1262897



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000541	1	04/11/2019 13:58	WG1263923
Toluene	ND		0.00541	1	04/11/2019 13:58	WG1263923
Ethylbenzene	ND		0.000541	1	04/11/2019 13:58	WG1263923
Total Xylene	0.00502		0.00162	1	04/11/2019 13:58	WG1263923
TPH (GC/FID) Low Fraction	4.09		0.108	1	04/11/2019 13:58	WG1263923
(S) a,a,a-Trifluorotoluene(FID)	91.3		77.0-120		04/11/2019 13:58	WG1263923
(S) a,a,a-Trifluorotoluene(PID)	95.1		72.0-128		04/11/2019 13:58	WG1263923



GI

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	301		4.33	1	04/12/2019 03:43	WG1264092
C28-C40 Oil Range	101		4.33	1	04/12/2019 03:43	WG1264092
(S) o-Terphenyl	34.7		18.0-148		04/12/2019 03:43	WG1264092

DATE/TIME:

WG1264235

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1086376-01

Method Blank (MB)

Analyte

Analyte Total Solids

Total Solids

(MB) R3400807-1 04/11/19 09:52

Total Solids by Method 2540 G-2011

MB Result

MB Qualifier

MB MDL

MB RDL %

0.00100

L1086365-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1086365-01 04/11/19 09:52 • (DUP) R3400807-3 04/11/19 09:52

Original Result	DUP Result	Dilution	DUP RPD <u>DUP Qualifier</u>	DUP RPD Limits
%	%		%	%
83.5	831	1	0.516	10

Laboratory Control Sample (LCS)

(LCS) R3400807-2 04/11/19 09:52

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























WG1264272

QUALITY CONTROL SUMMARY L1086376-02,03

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Method Blank (MB)

(MB) R3400808-1 04/11/19 10:38

MB Result %

MB Qualifier MB MDL

%

MB RDL

%

Analyte **Total Solids**

Analyte **Total Solids**

Analyte

Total Solids

0.00100

L1087856-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1087856-15 04/11/19 10:38 • (DUP) R3400808-3 04/11/19 10:38

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
%	%		%		%
79.4	77.4	1	2.50		10

Laboratory Control Sample (LCS)

(LCS) R3400808-2 04/11/19 10:38

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

















WG1264319

QUALITY CONTROL SUMMARY L1086376-04,05,06,07,08,09,10,11,12,13

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3401000-1 04/11/19 15:06

Total Solids by Method 2540 G-2011

MB Result

MB Qualifier

MB MDL %

MB RDL %

Analyte Total Solids

Analyte

Analyte

Total Solids

% 0.00200

L1086376-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1086376-10 04/11/19 15:06 • (DUP) R3401000-3 04/11/19 15:06

Original Result DUP Result %

%

Dilution DUP RPD %

DUP Qualifier

Limits % 10

LCS Qualifier

DUP RPD

91.6 91.7 **Total Solids** 0.207

Laboratory Control Sample (LCS)

(LCS) R3401000-2 04/11/19 15:06

Spike Amount LCS Result

50.0

%

50.0

LCS Rec. %

100

Rec. Limits

85.0-115

Analyte

Total Solids

QUALITY CONTROL SUMMARY L1086376-14,15,16,17,18,19,20,21,22,23

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Method Blank (MB)

(MB) R3400995-1 04/11/19 14:55

MB Result

0.000

%

MB Qualifier

MB MDL

MB RDL

%

L1086376-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1086376-20 04/11/19 14:55 • (DUP) R3400995-3 04/11/19 14:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.9	92.4	1	0.518		10



Laboratory Control Sample (LCS)

(LCS) R3400995-2 04/11/19 14:55

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





QUALITY CONTROL SUMMARY L1086376-24,25

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Method Blank (MB)

Analyte

Analyte

Analyte

Total Solids

Total Solids

Total Solids

:41

MB Result %

MB Qualifier

MB MDL

%

MB RDL

%

0.000

L1086380-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1086380-01 04/11/19 14:41 • (DUP) R3400993-3 04/11/19 14:41

80.8

%

Original Result DUP Result Dilution DUP RPD % %

81.2

% 0.522 **DUP Qualifier**

% 10

DUP RPD

Limits

Laboratory Control Sample (LCS)

(LCS) R3400993-2 04/11/19 14:41

Spike Amount LCS Result % 50.0 50.0

LCS Rec. % 100

Rec. Limits %

85.0-115

LCS Qualifier













QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1086376-01,02,03,04,05,06,07,08,09

Method Blank (MB)

Analyte

Chloride

(MB) R3399735-1 04/08/19 23:28

Wet Chemistry by Method 9056A

MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg mg/kg 4.28 0.795 10.0





L1085575-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1085575-01 04/09/19 01:10 • (DUP) R3399735-5 04/09/19 01:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	230	249	1	7.98		15







(OS) L1086376-09 04/09/19 04:17 • (DUP) R3399735-6 04/09/19 04:26

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	13.0	15.5	1	18.1	<u>P1</u>	15





Laboratory Control Sample (LCS)

(LCS) R3399735-2 04/08/19 23:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	195	97.4	80.0-120	

L1085556-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1085556-02 04/09/19 00:44 • (MS) R3399735-3 04/09/19 00:53 • (MSD) R3399735-4 04/09/19 01:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	318	757	727	87.8	81.8	1	80.0-120			4.03	15

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 9056A

L1086376-10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25



Method Blank (MB)

(MB) R3400902-1 04/11/19 11:12

	MB Result	MB Qualifier	MB MDL	MB RD
Analyte	mg/kg		mg/kg	mg/kg
Chloride	2.99	J	0.795	10.0



L1086376-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1086376-10 04/11/19 11:41 • (DUP) R3400902-3 04/11/19 11:49

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	28.3	28.2	1	0.294		15



L1086548-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1086548-04 04/11/19 15:22 • (DUP) R3400902-6 04/11/19 15:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	16.6	11.3	1	38.3	P1	15





Laboratory Control Sample (LCS)

(LCS) R3400902-2 04/11/19 11:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	182	91.0	80.0-120	



L1086376-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1086376-19 04/11/19 13:23 • (MS) R3400902-4 04/11/19 13:31 • (MSD) R3400902-5 04/11/19 13:40

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	531	32.2	629	600	112	107	1	80.0-120			4.60	15

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1086376-01,02,03

LCS Qualifier

LCSD Qualifier RPD

%

0.626

0.206 0.777

0.0709

Method Blank (MB)

a,a,a-Trifluorotoluene(PID)

(MB) R3399766-5	04/08/19 17:41
	MB Res

(1110) 1100001000				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	92.9			77.0-120

Volatile Organic Compounds (GC) by Method 8015/8021















(LCS) R3399766-1	04/08/19 15:58 •	(LCSD) R3399766-2	04/08/19 16:19
(200) 11000001	0 1700/13 13.30	(1000) 110000	0 17 0 07 13 10.13

95.0

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%
Benzene	0.0500	0.0473	0.0476	94.7	95.3	76.0-121
Toluene	0.0500	0.0443	0.0442	88.6	88.5	80.0-120
Ethylbenzene	0.0500	0.0463	0.0467	92.6	93.3	80.0-124
Total Xylene	0.150	0.141	0.141	94.0	93.9	37.0-160
(S) a,a,a-Trifluorotoluene(FID)				91.2	91.8	77.0-120
(S) a.a.a-Trifluorotoluene(PID)				93.1	93.4	72.0-128







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

(LCS) R3399766-3 04/08	/19 16:39 · (LCS	D) R3399766-	4 04/08/19 17:0	00					
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%
TPH (GC/FID) Low Fraction	5.50	5.58	5.33	101	97.0	72.0-127			4.54
(S) a,a,a-Trifluorotoluene(FID)				104	103	77.0-120			
(S) a,a,a-Trifluorotoluene(PID)				101	100	72.0-128			

72.0-128

RPD Limits

%

20 20

20

20

RPD Limits

20

QUALITY CONTROL SUMMARY



Volatile Organic Compounds (GC) by Method 8015/8021

L1086376-01,02,03

L1086179-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1086179-05	04/09/19 00:55 · (MS) R339976	6-6 04/09/19 02:17 · (MSE	R3399766-7 04/09/19 02:38

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.0647	U	1.03	1.08	64.0	67.0	25	10.0-155			4.61	32
Toluene	0.0647	U	1.03	1.06	63.6	65.5	25	10.0-160			3.06	34
Ethylbenzene	0.0647	0.00374	1.10	1.16	67.9	71.4	25	10.0-160			4.95	32
Total Xylene	0.194	0.0220	3.39	3.49	69.4	71.6	25	10.0-160	<u>J6</u>		3.01	32
(S) a,a,a-Trifluorotoluene(FID)					92.4	92.8		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					95.0	95.9		72.0-128				



















QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1086376-04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Method Blank (MB)

(MB) R3401081-5	04/08/19 23:03
-----------------	----------------

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0282	<u>J</u>	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	100			72.0-128













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

(LCS) R3401081-1	04/08/19 21:21 •	(LCSD) R3401081-2	04/08/19 21:41
------------------	------------------	-------------------	----------------

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%
Benzene	0.0500	0.0521	0.0483	104	96.5	76.0-121
Toluene	0.0500	0.0506	0.0463	101	92.5	80.0-120
Ethylbenzene	0.0500	0.0559	0.0510	112	102	80.0-124
Total Xylene	0.150	0.162	0.149	108	99.1	37.0-160
(S) a,a,a-Trifluorotoluene(FID)				106	105	77.0-120
(S) a.a.a-Trifluorotoluene(PID)				99.9	98.9	72.0-128







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

(LCS) R3401081-3	04/08/19 22:02 · (LCSI	D) R3401081-4	04/08/19 22:2	22
	Spike Amount	LCS Result	LCSD Result	L

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%
TPH (GC/FID) Low Fraction	5.50	6.34	6.55	115	119	72.0-127
(S) a,a,a-Trifluorotoluene(FID)				100	100	77.0-120
(S) a,a,a-Trifluorotoluene(PID)				107	107	72.0-128

RPD	Limits

RPD Limits

%

20

20

20 20

%

20

ACCOUNT: **Enduring Resources** LCS Qualifier

LCS Qualifier

LCSD Qualifier RPD

LCSD Qualifier

%

7.67

8.93

9.11

8.31

%

3.16

QUALITY CONTROL SUMMARY



Volatile Organic Compounds (GC) by Method 8015/8021

L1086376-04.05.06.07.08.09.10.11.12.13.14.15.16.17.18.19.20.21.22.23

L1086376-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1086376-2	1 04/09/19 06:33	 (MS) R3401081-6 	04/09/19 06:54	(MSD) R3401081-7	04/09/19 07:14

(,			(
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.0537	ND	1.46	1.45	109	108	25	10.0-155			0.626	32
Toluene	0.0537	ND	1.43	1.40	106	104	25	10.0-160			1.75	34
Ethylbenzene	0.0537	ND	1.60	1.56	119	116	25	10.0-160			2.64	32
Total Xylene	0.161	0.0640	4.85	4.51	119	110	25	10.0-160			7.12	32
(S) a,a,a-Trifluorotoluene(FID)					105	105		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					97.3	99.6		72.0-128				



OS: Non-target compounds too high to run at a lower dilution.

L1086376-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1086376-21 04/09/19 06:33 • (MS) R3401081-8 04/09/19 07:35 • (MSD) R3401081-9 04/09/19 07:55

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.91	19.9	180	171	108	103	25	10.0-151			4.85	28
(S) a,a,a-Trifluorotoluene(FID)					102	102		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					105	107		72.0-128				

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.





















QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1086376-24,25

LCS Qualifier

LCS Qualifier

LCSD Qualifier

LCSD Qualifier

RPD

4.97

4.65

8.79

4.50

%

%

RPD Limits

%

20

20

20

20

RPD Limits

% 20

Method Blank (MB)

(MB) R3400883-5 04/11/19	11:42			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000171	<u>J</u>	0.000150	0.00500

Volatile Organic Compounds (GC) by Method 8015/8021



93.4 77.0-120 a,a,a-Trifluorotoluene(FID)

a,a,a-Trifluorotoluene(PID)

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

72.0-128

PROJECT:

(LCS) R3400883-1 04/11/19	09:32 • (LCSD) R3400883-2	04/11/19 09:53	
	Spike Amount	LCS Result	LCSD Result	LCS Rec.
Analyto	malka	malka	malka	0/

// CS/ P3400883-3 04/11/19 10:14 • // CSD/ P3400883-4 04/11/19 11:00

96.4

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%
Benzene	0.0500	0.0467	0.0491	93.5	98.2	76.0-121
Toluene	0.0500	0.0445	0.0466	88.9	93.1	80.0-120
Ethylbenzene	0.0500	0.0449	0.0491	89.8	98.1	80.0-124
Total Xylene	0.150	0.139	0.146	92.7	97.0	37.0-160
(S) a,a,a-Trifluorotoluene(FID)				93.0	92.8	77.0-120
(S) a,a,a-Trifluorotoluene(PID)				94.3	94.8	72.0-128

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

(LC3) K3400863-3 04/11/	19 10.14 • (LC3D)	K3400663-4	1 04/11/19 11.00			
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%
TPH (GC/FID) Low Fraction	5.50	5.73	5.12	104	93.1	72.0-127
(S) a,a,a-Trifluorotoluene(FID)				106	104	77.0-120
(S) a,a,a-Trifluorotoluene(PID)				102	101	72.0-128



PAGE: 45 of 53















QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

L1086376-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3400435-1 04/10)/19 18:06			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	102			18.0-148







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

	(LCS) R3400435-2 04/10/19 18:19 • (LCSD) R3400435-3 04/10/19 18:32									
(LCS) R3400435-2 04/10	/19 18:19 • (LCSI	D) R3400435-3	3 04/10/19 18:3	2						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
C10-C28 Diesel Range	50.0	47.1	49.4	94.2	98.8	50.0-150			4.77	20
(S) o-Terphenyl				94.6	98.5	18.0-148				







(OS) L1086376-13	3 04/10/19 21:22	 (MS) R3400435-4 	04/10/19 21:35	 (MSD) R3400435-5 	04/10/19 21:48

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.7	341	338	260	0.000	0.000	1	50.0-150	\vee	J3 V	26.0	20
(S) o-Terphenyl					68.9	64.1		18.0-148				







QUALITY CONTROL SUMMARY L1086376-20,21,22,23,24,25

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

(MB) R3401136-1 04/11/1	9 21:28			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	72.5			18.0-148

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

(LCS) R3401136-2 04/11/1	9 21:41 • (LCSD)	R3401136-3 C	04/11/19 21:54							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
C10-C28 Diesel Range	50.0	41.8	39.9	83.6	79.8	50.0-150			4.65	20
(S) o-Terphenyl				60.8	63.8	18.0-148				

L1086272-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

10011100007015 01101												
(OS) L1086272-15 04/12/	19 00:16 · (MS) F	3401136-4 04/	12/19 00:29 •	(MSD) R340113	6-5 04/12/19 0	00:42						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	49.0	U	36.7	33.7	74.9	69.9	1	50.0-150			8.52	20
(S) o-Terphenyl					52.6	46.3		18.0-148				



















GLOSSARY OF TERMS



Guide to Reading and Understanding Your Laboratory Report

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

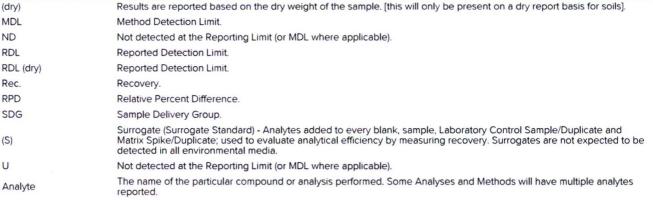


Ss

Cn

Sr

Abbreviations and Definitions





Dilution

If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.



Limits

These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges

Original Sample

Qualifier

The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.

This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

Result

(Radiochemistry)

Uncertainty

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.

Confidence level of 2 sigma.

Case Narrative (Cn)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

Quality Control Summary (Qc)

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.

Sample Chain of Custody (Sc)

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

Sample Results (Sr)

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

Sample Summary (Ss)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis

Qualifier	Description
В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS





Ss

Cn

Sr

Qc

GI

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

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

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina 3	41
Georgia 1	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana 1	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
AZEA - 130 17023	1401.02	DOD	1401.01
Canada	1461.01	4.0311	D220 4F 00224
Canada	1461.01	USDA	P330-15-00234
FDA C	T1100000		
EPA-Crypto	TN00003		

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

Our Locations

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



ACCOUNT:

Enduring Resources

PROJECT:

SDG L1086376

DATE/TIME: 04/15/19 07:09 49 of 53

PAGE:

				Billing Info	rmation:			1		11.00	- 1	nalysis	/ Contai	ner / Pr	eservativ	e			Chain of Custody	Page of
Enduring Resources 200 Energy Court Farmington, NM 87401				James M 200 Ener Farming		7401		Pres Chk											Pace	Analytical *
Report to: Project Description: Lo 50 5 3		31		Email To:	City/State	ndu	singsesource NM	45.0	o m	01080)									12065 Lebanon Rd Mount Juliet, TN 3' Phone: 615-758-58 Phone: 800-767-58 Fax: 615-758-5859	7122 W 7128 158 159
Phone: 505-636-9731 Fax:	Client Pr	roject #	#		Lab Project	t #			ロメ	DR	4								C04	
Collected by (print):	Site/Fac	ility ID	#		P.O. #				BTE	101	5								Acctnum: EN	DRESANM
Collected by (signature): Immediately Packed on Ice N Y	Sa	ame Da	ab MUST Be y Five y 5 Day 10 Day	Day (Rad Only)	Quote #	e Resu	llts Needed	No.	216	15 (6,20	dhlorida					*			Template: Prelogin: TSR: 288 - Dap PB:	ohne Richards
Sample ID	Comp/6		Matrix *	Depth	Date		Time	of Cntrs	80	80	7								Shipped Via:	Sample # (lab only)
Section 1	Cor	np	55		4-3-	19	11:00gm	1	×	7	X						12.4			- 01
Section 2							11:05cm	1	×	Y	Х									02
Section 3							11:10 cm	1	×	X	×									.03
Section 4							11:15 cm	1	Y	V	X			RAL	500					-04-d
Section 5							11: 20an	1	X	×	X				SCA	:EV:	250	Rhr		' থ
Section 6	-				-		11:25	!	×	X	X	_								-96
Section 7	4-4-						11: 30am	-	X	X	X									.07 -08
Section 8							1. 40 cm	'	V	V	X		9							-08
Section 9					-		11:45 am	1	X	X	X		345							-09
Section 10							11: Soam		X	X	X		6							10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water	Remark	- Jak	\ ood vie									pH Flo		_ Tem			COC S Bottl Corre	eal Pr igned/ es arr ct bot	le Receipt C esent/Intact Accurate: ive intact: tles used:	- X - N - X - N - X - N - X - N - N - X - N - N
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Relinquished by : (Signature)			Date:	Т	ime:	Re	ceived for lab by:	(Signat	ture)			Date:	/19	Tin	**************************************	5	Hold:			Condition:

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Farmington, NM 87401			100					-								
Report to: Chad Snell Project			Email To:	City/State	during reson	rces.	com	ORO							12065 Leban Mount Juliet Phone: 615- Phone: 800- Fax: 615-758	, TN 37122 758-5858 767-5859
Description: 2030	Client Project	14		Lab Project #	10/01	100		Roy							L#	1/20/201
Phone: 505-636-9731 Fax:	Client Project	•		Lab Project #			_X	101							Table #	L1086376
Ched Snell	Site/Facility ID	#		P.O. #			376	801	0							ENDRESANM
Collected by (signature): Immediately Packed on Ice N Y K	Same Da	ab MUST Be y Five I y 5 Day 10 Day	Day y (Rad Only)	Quote #	esults Needed	No.	2/(1	15 (9	loc'de						Prelogin: TSR: 288	Daphne Richards
			T	T		Cntrs	18	18	4				UL RES		Shipped V	/ia:
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		N		J						Remark	ks Sample # (lab only)
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Section 12	-		ļ		12:00pm	1	メ	X	×				4			-12
Section 13					12:05pm	110	7	×	X							43
Section 14					12:10pm	1	X	X	>							110
Section 15					12:25pm	1	X	×	X					*		-15
Section 16					12:20pm		×	X	X			PADS	C'F-			-16
Section 17					12:25pm		X	X	X					* <0.5	MAnr	
Section 18					12:30pm		X	X	X			3.7		5.1		-13
Section 19					12:35pm		7	X	X		16 15					-19
Section 20					12:40pm	1	X	X	X					45.		- 70
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:											Temp		COC Si Bottle Correc	Sample Receip al Present/In gned/Accurate a arrive inta- t bottles use	tact: NP Y N
DW - Drinking Water OT - Other	Samples return		ırier		Tracking #	1								Suffic	ient volume se	
Relinquished by : (Signature)	ED-SORGE CO.	Date: 4-3-/	Į-	ASSESSMENT PARTY	Received by: (Signa	ture)				Trip Blar	nk Receiv	ed: Yes N	MeoH	VOA Ze Preser	ro Headspace: vation Correct	t/Checked: Y N
Relinquished by : (Signature)		Date:			Received by: (Signa	ture)		-		Temp: 2-0-6	01=2.4	Bottles Rec	relyea:	If preser	rvation required b	by Login: Date/Time
Relinquished by : (Signature)		Date:	1	Time:	Received for lab by	Signa	ture)			Date: 4/5	lia	Time:	15	Hold:		Condition NCF / Ox

Billing Information:								Ar	nalysis / C	/ Container / Preservative			H. Walton	ody Page of		
Enduring Resources			James M 200 Ener			Pres Chk									100)
200 Energy Court Farmington, NM 87401				on, NM 8740	ı			(02)							Nettoni	CE Analytical * Parter for Texting & Innovetion
Report to:	nell		Email To:					0/0							12065 Lebanon Mount Juliet, TN	37122
Project Description: 20905	3	1		City/State Collected:	Im		_	386							Phone: 615-758- Phone: 800-767- Fax: 615-758-58	5859
Phone: 505-636-9731 Fax:	Client Project	#		Lab Project #			以	0							L#	086376
Collected by (print):	Site/Facility ID	#		P.O. #			35	6784	5						Table #	IDRESANM
Collected by (signature): Immediately Packed on Ice N Y		10 Da		Quote #	ults Needed	No.	8021	015 (hlocid	\$					Template: Prelogin:	phne Richards
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Contra	FEETEN STATE	8	O						Shipped Via:	Sample # (lab only)
Section 21	comp	5,3		4-3-19	12:45pm	1										- 21
North well					12. Sopm	1								14.5		-22
East Wall					12:55pm	4										- 29
west well					1800pm											- 24
South wall					Losen				A Second	10.7	F					-25
										120	- 417	SCREE	'· <0.5	mRADE		
							PLINOT.									
								-								
												1975			20	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:									pH		Temp		COC Seal COC Signe Bottles a	mple Receipt Ch Present/Intact d/Accurate: rrive intact:	Peckist -NP Y N
DW - Drinking Water OT - Other	Samples returned UPS Fe	rned via:	ırier	Tr	acking #	<i>C</i>								Correct be Sufficient	t volume sent:	-Y _N
Relinquished by (Signature)	Recommended to the second of t	Date: 4-3-		ime: Re	eceived by: (Signat	ure)			Tri	ip Blank R	eceived	d: Yes (No HCL / M		VOA Zero I Preservat:	Headspace: ion Correct/Che	SECTION AND PROPERTY OF THE PARTY OF
Relinquished by : (Signature)		Date:		ime: Re	eceived by: (Signat	Dec.				mp: - 6 -0-1:	2.69	Bottles Receiv	/ed:	f preservation	on required by Log	in: Date/Time
Relinquished by : (Signature)		Date:	Т	ime: Re	Ceived for lab by:	(Signati	ure)		Da	te: 1/5/K	í	5.45		Hold:		Condition: NCF / Ok



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 4/26/2019

Job Number: 17065-0017

Work Order: P904132

Project Name/Location: Logos #3

Report	Reviewed	By:
--------	----------	-----

Walter Hinkown

Date:

4/30/19

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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Labadmin@envirotech-inc.com



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202 Project Name: Project Number: Project Manager: Logos #3 17065-0017

Chad Snell

Reported: 04/30/19 12:49

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 19	P904132-01A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Section 18	P904132-02A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Section 20	P904132-03A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.

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Project Name:

Logos #3

511 16th Street, Suite 700

Denver CO, 80202

Project Number: Project Manager: 17065-0017 Chad Snell

Reported: 04/30/19 12:49

Section 19 P904132-01 (Solid)

		Reporting	•	•	•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	ı	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	L	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	i	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-1	50	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	58.0	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorohenzene-FID		94.8 %	50-1	50	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		99.5 %	50-2	00	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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Labadmin@envirotech-inc.com



Project Name:

Logos #3

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 Chad Snell Reported: 04/30/19 12:49

Section 18 P904132-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	150	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		95.8 %	50-	150	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		96.7 %	50-	200	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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Project Name:

Logos #3

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 Chad Snell Reported: 04/30/19 12:49

Section 20 P904132-03 (Solid)

		17041	32-03 (301	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	50	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	28.0	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	50-1	50	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		93.0 %	50-2	00	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700

Denver CO, 80202

Project Name:

Logos #3

17065-0017 Project Number: Project Manager:

Chad Snell

Reported: 04/30/19 12:49

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1917045 - Purge and Trap EPA 5030A										
Blank (1917045-BLK1)				Prepared: (4/26/19 1 A	nalyzed: (4/28/19 1			
Benzene	ND	0.0250	mg/kg							
Folu ene	ND	0.0250	-							
Ethylbenzene	ND	0.0250	•							
p,m-Xylene	ND	0.0500	*							
>-Xylene	ND	0.0250	*							
Total Xylenes	ND	0.0250	#							
Surrogate: 4-Bromochlorohenzene-PID	8,07			8.00		101	50-150			
CS (1917045-BS1)				Prepared: 0	4/26/19 1 A	nalyzed: 0	14/28/19 1			
Benzene	4.61	0.0250	mg/kg	5.00		92.1	70-130			
l'oluene	5.02	0.0250	*	5.00		100	70-130			
Ethylbenzene	5.01	0.0250		5.00		100	70-130			
o,m-Xylene	10.3	0.0500		10.0		103	70-130			
-Xylene	5.00	0.0250	•	5.00		100	70-130			
Total Xylenes ,	15.3	0.0250	•	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		•	8.00		101	50-150		• •	
Matrix Spike (1917045-MS1)	Sou	rce: P904128-	01	Prepared: 0	4/26/19 1 A	nalyzed: 0	4/28/19 1			
Benzeno	4.43	0.0250	mg/kg	5.00	0.0337	87.8	54.3-133			
Toluene	5.45	0.0250	•	5.00	0.899	90.9	61.4-130			
Ethylbenzene	5.21	0.0250	-	5.00	0.428	95.7	61.4-133			
o,m-Xylene	15.9	0.0500		10.0	7.40	84.5	63.3-131			
-Xylene	6.44	0.0250	•	5.00	1.97	89.2	63.3-131			
Total Xylenes	22.3	0.0250	•	15.0	9.38	86.1	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.50		•	8.00		93.7	50-150		 	
Matrix Spike Dup (1917045-MSD1)	Sour	rce: P904128-	01	Prepared: (14/26/19 1 A	nalyzed: 0	14/28/19 1			
Benzene	4.41	0.0250	mg/kg	5.00	0.0337	87.5	54.3-133	0.342	20	
Toluene	5.28	0.0250		5.00	0.899	87.6	61.4-130	3.07	20	
Ethylbenzene	5.15	0.0250		5.00	0.428	94.5	61.4-133	1.20	20	
ı,m-Xylene	15.1	0.0500	7	10.0	7.40	76.5	63.3-131	5.16	20	
>Xylene	6.24	0.0250	•	5.00	1.97	85.3	63.3-131	3.14	20	
Total Xylenes	21.3	0.0250		15.0	9.38	79.4	63.3-131	4.57	20	
Surrogate: 4-Bromochlorobenzene-PID	7.93	•		8.00		99.1	50-150			

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Project Name:

Logos #3

511 16th Street, Suite 700

Denver CO, 80202

Project Number: Project Manager: 17065-0017 Chad Snell Reported: 04/30/19 12:49

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1917045 - Purge and Trap EPA 5	030A									
Blank (1917045-BLK1)				Prepared: (04/26/19 1 /	Analyzed: 0	4/28/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.8	50-150			
LCS (1917045-BS2)				Prepared: (04/26/19 1 2	Analyzed: 0	4/28/19 1			
Gasoline Range Organics (C6-C10)	56.0	20.0	mg/kg	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		"	8.00		97.9	50-150			
Matrix Spike (1917045-MS2)	Sour	ce: P904128-	01	Prepared: (04/26/19 17	Analyzed: 0	14/28/19 1			
Gasoline Range Organics (C6-C10)	155	20.0	mg/kg	50.0	124	62.2	70-130			SPK
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.33		*	8.00		104	50-150			
Matrix Spike Dup (1917045-MSD2)	Sour	ce: P904128-	01	Prepared: (04/26/19 1 /	Analyzed: 0	04/28/19 1			
Gasoline Range Organics (C6-C10)	152	20.0	mg/kg	50.0	124	55.3	70-130	2.23	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			

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Enduring Resources, LLC 511 16th Street, Suite 700

Denver CO, 80202

Project Name:

Logos #3

Project Number: Project Manager: 17065-0017 Chad Snell

Reported: 04/30/19 12:49

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917048 - DRO Extraction EPA 3570		, ,								
Blank (1917048-BLK1)				Prepared:	04/29/19 0 /	Analyzed: 0	4/29/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0								
Surrogate: n-Nonane	48.5		*	50.0		96.9	50-200			
LCS (1917048-BS1)				Prepared: (04/29/19 0 /	Analyzed: 0	4/29/19 1			
Diesel Range Organics (C10-C28)	494	25.0	mg/kg	500		98.7	38-132			
Surrogute: n-Nonane	47.9		*	50.0		95.9	50-200			
Matrix Spike (1917048-MS1)	Sou	rce: P904130-	01	Prepared: (04/29/19 0 /	Analyzed: 0	4/29/19 1			
Diesel Range Organics (C10-C28)	692	25.0	mg/kg	500	168	105	38-132			
Surrogate: n-Nonane	50.7		77	50.0		101	50-200			
Matrix Spike Dup (1917048-MSD1)	Sou	rce: P904130-	01	Prepared: (04/29/19 0 /	Analyzed: 0	4/29/19 1			
Diesel Range Organics (C10-C28)	715	25.0	mg/kg	500	168	109	38-132	3.29	20	
Surrogate: n-Nonane	51.3		R	50.0		103	50-200			

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Project Name:

Logos #3

511 16th Street, Suite 700

Project Number: Project Manager: 17065-0017 Chad Snell Reported: 04/30/19 12:49

Denver CO, 80202

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1917044 - Anion Extraction EPA 3	00.0/9056A							_		
Blank (1917044-BLK1)				Prepared: ()4/27/19 0 <i>l</i>	Analyzed: 0	4/27/19 1			
Chloride	ND	20.0	mg/kg	•	•		•			
LCS (1917044-BS1)				Prepared: ()4/27/19 0 <i>i</i>	Analyzed: 0	4/27/19 1			
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1917044-MS1)	Sour	ce: P904130-	01	Prepared: ()4/27/19 0 <i>/</i>	Analyzed: 0	4/27/19 1			
Chloride	299	20.0	mg/kg	250	39.3	104	80-120			
Matrix Spike Dup (1917044-MSD1)	Sour	ce: P904130-	01	Prepared: ()4/27/19 0 <i>/</i>	Analyzed: 0	4/27/19 1			
Chloride	301	20.0	mg/kg	250	39.3	105	80-120	0.823	20	

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Project Name:

Logos #3

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 Chad Snell Reported: 04/30/19 12:49

Notes and Definitions

SPKI

The spike recovery is outside of quality control limits.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

49

Methods marked with ** are non-accredited methods.

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24 Hour Emergency Response Phone (800) 352-1879

Page 10 of 11



Phone: Sist - 4-44 - 5-58 log of the state o	ogram
Address: City, State, Zip Phone: 505 - 444 - 5586 Email: Madder, in: Received in: Sample ID Sampled Sampled Matrix Sampled ID Sampled Sampled ID Scribban 19 G: 40m 1/26 19 G: 50m 1/26 50m 1	/A SDWA
City, State, Zip Phone: State,	
Phone: Sub-4-y-y	State
9:40 9/2/19 5 Section 19 2 X X X X X X X X X X X X X X X X X	CO UT AZ
4. Section 19 9. Start Intel Section 19 9. Section 20 3	
4. Section 19 9. Start Intel Section 19 9. Section 20 3	
Additional instructions: 1. (field sampler), stress to the willding and autherecitiv of this sample. I am aware that tampering with or intentionally mislabellimphe sample location, date or sample sense in considered from a dard ward way be ground for legal action. Sampled by: Relinquished By: (Signature) Date Time Received on ice: Tables Time Tables	Remarks
Additional Instructions: 1, (field sampler), attest to the willdity and authenticity of this sample. I am aware that tampering with or intentionally midabellimptic sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Relinquished By: (Signature) Date Time Reptelved by: (Signature) Date Time Reptelved by: (Signature) Date Time Tim	
Additional Instructions: I, (Relid sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally midabellingules sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Relinquished By: (Signature) Date Time Repérved by: (Signature) Date Time Tall AVG Temp °C	
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Tample Matrix: S - Soll, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	And the second
the: 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 sa	mples is applicab
by hy 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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