District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

NMOCD SEP 14 2018 DISTRICT

)

Responsible Party: Enduring Resources, LLC	OGRID: 372286
Contact Name: James McDaniel	Contact Telephone: 505-636-9731
Contact email: jmcdaniel@enduringresources.com	Incident # (assigned by OCD) NCS1820455071
Contact mailing address: 200 Energy Court, Farmington, NM	
87401	

## **Location of Release Source**

Latitude <u>36.259352</u>

*NAD 83 in decimal degrees to 5 decimal places* 

Site Name: Chaco 2308 6H 395H	Site Type: Oil Wellsite
Date Release Discovered: June 25, 2018	API# (if applicable) <b>30-045-35553</b>

Unit Letter	Section	Township	Range	County
Н	6	23N	8W	San Juan County

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	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 12	Volume Recovered (bbls) 0
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

On June 25<sup>th</sup>, 2018 the lease operator noticed the ground next to VRU was unstable under the liner at the Chaco 2308 6H 395H wellsite. The piping from the VRU that ran below the surface had failed causing the release. The line failed due to external corrosion.

Form	C-141

#### Page 2

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name:	Title:			
Signature:	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			

Form C-141 Page 3 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?	(ft bgs)	
Did this release impact groundwater or surface water?		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No	
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No	
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No	

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

Characterization Report Che	cklist: Each	of the f	following iter	ems must be in	ncluded in the report.
		J	O		· · · · · · · · · · · · · · · · · · ·

	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 1/2-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
	Topographic/Aerial maps
$\square$	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.

Form C-141 Page 4	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID	
I hereby certify that the in regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations.	nformation given above is true and complete to the bes are required to report and/or file certain release notifica onment. The acceptance of a C-141 report by the OCE stigate and remediate contamination that pose a threat t e of a C-141 report does not relieve the operator of response.	t of my knowledge and understand that pursuant to ations and perform corrective actions for releases wh o does not relieve the operator of liability should the to groundwater, surface water, human health or the opensibility for compliance with any other federal, st	OCD rules and nich may endanger eir operations have environment. In tate, or local laws
Signature:	I	Date:	
email:	Т	elephone:	
OCD Only Received by:		Date:	

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>							
<b>Deferral Requests Only:</b> 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 pr 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	h, the environment, or groundwater.						
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name:	Title:						
Signature:	Date:						
email:	Telephone:						
OCD Only							
Received by:	Date:						
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved						
Signature:	Date:						

Form C-141 Page 6 State of New Mexico Oil Conservation Division

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.

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name:	James McDaniel	Title:		HSE Su	pervisor	
Signature:	MO		Date: _	<u>9/10</u>	0/2018	
email: jmcan	iiel@enduringresources.com		Te	lephone:	505-636-9731	

OCD Only			1 1
Received by:	OUD	Date:9	14/18

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

	lang the	$ \rightarrow $	1 holid	
Closure Approved by:	C X M	Date:	10/17/18	
$\cap$	$(\gamma)$			C
Printed Name:	Smith	Title:	Farinonmenter	Pec.
/				/

#### Chaco 2308 6H 395H 30-045-35553

#### **Remediation Description**

#### 6/25/2018

The release was discovered on June 25, 2018 by the lease operator when the ground beneath the liner near the vapor recovery unit (VRU) was found to be unstable. The liner was cut, and the soil was found to be impacted with condensate. The VRU was shut down, and a one call was put into place. The site was ranked a 10 pursuant to the <u>NMOCD Guidelines for the Remediation of Leaks, Spills, and</u> <u>Releases</u> due to a wash at less than 1,000 feet from the location. This set the closure standards to 1,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

#### 6/28/2018

Approximately 6 CY was excavated using a hydrovac beneath the liner, and initial samples were collected to determine the extent of the release. The excavation was performed to extents of 10' long x 4' wide x 4' deep. 5-point composite samples were collected from each of the four (4) walls, and from the bottom at 4' deep; see attached *Field Notes* from 6/28/2018. Each of the samples were analyzed for benzene, total BTEX, and TPH (DRO/GRO/ORO) in the laboratory.

#### 7/10/2018

Composite samples from the bottom at 4' deep, the north wall and the south wall returned results below the regulatory standards determined for this site; see attached *Analytical Results*. Samples from the East Wall and West Wall returned result over the regulatory standards, requiring additional excavation. Initial Spill Report completed and sent to NMOCD.

#### 7/12/18

Additional excavation activities occurred on the east wall and the west wall using a hydrovac. Notice for final sampling was submitted to Cory Smith.

#### 7/16/2018

Cory Smith, NMOCD on-site to witness sampling. Excavation was filled with water from a recent rain event. Cory noted that the excavation was filled with water, and he mentioned that he did not necessarily need to be present for the additional sampling. A water truck was called, and the water removed from the excavation. An additional 5-point composite sample was collected each from the west wall and the east well to be analyzed for TPH (DRO/GRO/MRO), benzene and total BTEX, see attached *Field Notes* from 7/16/2018.

#### 7/19/2018

Sample for the east wall and the west wall returned results below the regulatory standards determined for this location; see attached *Analytical Results*.





#### Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
-	NA	100 Standard	NA	-	NA
900	1	North Wall	Brown Clay Some and	-	8021. 8015
las	-2	West Wald			1
910	3	Aputh Wall			
915	4	East Wall		-	
920	5	Ratton la U	V	-	V
		Doner			

Name (Print) Sames Mc Danie	Date 6/20 /18
Name (Signature)	Company Enduring Res

ENDURING RESOURCES
TIME ON-SITE FORM
Well Name ( haco 2308-06H 3754 PPP API # 30-043-3353 3
Section <u>G</u> Township <u>Z3N</u> Range <u>S</u> County <u>San Juan</u> State <u>NM</u>
Contractors On-Site 1/A Time On-Site 3:15 Pm Time Off-Site 3:45
Spill Amount bbls Spilled (@jup roduced Water/Other) Recovered @
Land Use (Range / Residential / Tribe) Spill Area 20'6' x 7 x 4' deep
$\frac{1}{1}$
Comments

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	<b>Analysis Requested</b>
	NA	100 Standard	NA		NA
3:20 pm	1	East well	Brown, clev.		8021, 8015
3:25 pm	2	Mest well	Brown Clay		8021, 80/5

Name (Print) C'had Srul/	Date7-18-18
Name (Signature)	Company enduring Reserves



Enduring Resources, LLC Spill Closure Report Chaco 2308 6H 395H 30-045-35553



PHOTO 1: Spill Area after excavation



PHOTO 2: Spill Area after Excavation



# ANALYTICAL REPORT

July 10, 2018

## **Enduring Resources**

Sample Delivery Group:	L1005833
Samples Received:	06/29/2018
Project Number:	
Description:	Spill
Site:	CHACO 2308 6H 395H
Report To:	James McDaniel
	332 County Road 3100
	Aztec, NM 87410

Entire Report Reviewed By: Naphne R Richardf

Daphne Richards Technical Service Representative

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

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SDG: L1005833 -

## SAMPLE SUMMARY

#### ONE LAB. NATIONWIDE.

3

			Collected by	Collected date/time	Received date/time
EAST WALL L1005833-01 Soliid			James McDaniel	06/28/18 09:15	06/29/18/08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			:date/time	/date/time	
Total Solids by Method 2540 G-2011	WG1134083	1	07/05/18 15:33	07/05/18 15:45	JD
Volatile Organic Compounds (GC) by Method 8015	WG1134115	2500	06/30/18 09:32	07/05/18 19:11	BMB
Volatile Organic Compounds (GC) by Method 8021	WG1133637	1000	06/30/18 09:32	07/04/18 21:15	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	1	07/06/18 17:47	07/09/18 08:10	MG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	10	07/06/18 17:47	07/09/18 18:13	MG
			Collected by	Collected date/time	Received date/time
NORTH WALL L1005833-02 Solid			James McDaniel	06/28/18 09:00	06/29/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1134083	1	07/05/18 15:33	07/05/18 15:45	JD
Volatile Organic Compounds (GC) by Method 8015/8021	WG1134115	100	06/30/18 09:32	07/05/18 17:43	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	1	07/06/18 17:47	07/09/18 07:16	MG
			Collected by	Collected date/time	Received date/time
BOTTOM @ 4' L1005833-03 Solid			James McDaniel	06/28/18 09:20	06/29/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1134085	1	07/05/18 15:46	07/05/18 15:52	JD
Volatile Organic Compounds (GC) by Method 8015/8021	WG1133637	500	06/30/18 09:32	07/04/18 21:59	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	1	07/06/18 17:47	07/09/18 07:29	MTJ
			Collected by	Collected date/time	Received date/time
SOUTH WALL L1005833-04 Solid			James McDaniel	06/28/18 09:10	06/29/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1134085	1	07/05/18 15:46	07/05/18 15:52	DL
Volatile Organic Compounds (GC) by Method 8015/8021	WG1134115	100	06/30/18 09:32	07/05/18 18:05	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	1	07/06/18 17:47	07/09/18 07:43	MTJ
			Collected by	Collected date/time	Received date/time
WEST WALL L1005833-05 Solid			James McDaniel	06/28/18 09:05	06/29/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1134085	1	07/05/18 15:46	07/05/18 15:52	JD
Volatile Organic Compounds (GC) by Method 8015/8021	WG1133637	1000	06/30/18 09:32	07/04/18 22:44	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1135089	1	07/06/18 17:47	07/09/18 07:56	MG

SDG: L1005833

## CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

Vaplime R Richards

Daphne Richards Technical Service Representative

Ss



PAGE: 4 of 18

#### EAST WALL Collected date//time: 06/28/18 09:15

## SAMPLE RESULTS - 01

AI

## Total Solids by Method 2540 G-2011

ין שאמור שלי איזאר איז							
	Result	Qualifier	Dilution	Analysis	Batch		
Analyte	20			date // time		-	-
Total Solids	91.5		1	07/05/2018 15:45	WG1134083	T¢	

#### Volatile Organic Compounds (GC) by Method 8015/8021

Volatile Organic Compounds (GC) by Method 8015/8021								Ss
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg		date // time			4 C D
Benzene	60.1		0.546	1000	07/04/2018 21:15	WG1133637		Cit
Toluene	153		5.46	1000	07/04/2018 21:15	WG1133637		
Ethylbenzene	42.4		0.546	1000	07/04/2018 21:15	WG1133637		
Total Xylene	171		1.64	1000	07/04/2018 21:15	WG1133637		
TPH (GC/FID) Low Fraction	13700		273	2500	07/05/2018 19:11	WG1134115		6 QC
(S) a,a,o-Trifluorotoluene(FID)	86.0		77.0-120		07/04/2018 21:15	WG1133637		GC
(S) a.a,a-Trifluorotoluene(FID)	86.0		77.0-120		07/05/2018 19:11	WG1134115		7
(S) a,a,a-Trifluorotoluene(PID)	86.2		75.0-128		07/04/2018 21:15	WG1133637		GI
(S) a,a,o-Trifluorotoluene(PID)	93.2		75.0-128		07/05/2018 19:11	WG1134115		L

#### Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	9
Analyte	mg/kg		mg/kg		date / time		SC
C10-C28 Diesel Range	551		43.7	10	07/09/2018 18:13	WG1135089	
C28-C40 Oil Range	16.9		4.37	1	07/09/2018 08:10	WG1135089	
(S) o-Terphenyl	94.5		18.0-148		07/09/2018 08:10	WG1135089	
(S) o-Terphenyl	94.1		18.0-148		07/09/2018 18:13	WG1135089	

### NORTH WALL

Total Xylene

Analyte

C10-C28 Diesel Range

C28-C40 Oil Range

(S) o-Terphenyl

TPH (GC/FID) Low Fraction

(S) a,a,a-Trifluorotoluene(FID)

(S) a.a.a-Trifluorotoluene(PID)

#### SAMPLE RESULTS - 02 11005833

Or

GI

AI

Sc

Collected date/time: 06/28/18 09:00

8.78

582

88.8

94.4

Semi-Volatile Organic Compounds (GC) by Method 8015 Result (dry)

mg/kg

45.8

17.7

82.5

#### Total Solids by Method 2540 G-2011 Result Qualifier Dilution Analysis Batch Analyte % date // time Total Solids 88.7 1 07/05/2018 15:45 WG1134083 Volatile Organic Compounds (GC) by Method 8015/8021 Ss Result (dry) Qualifier RDL (dry) Dilution Analysis Batch Analyte mg/kg mg/kg date / time Cn Benzene 0.848 0.0563 100 07/05/2018 17:43 WG1134115 Toluene 1.65 0.563 100 07/05/2018 17:43 WG1134115 Ethylbenzene 1.80 0.0563 WG1134115 100 07/05/2018 17:43

07/05/2018 17:43

07/05/2018 17:43

07/05/2018 17:43

07/05/2018 17:43

Analysis

date / time

07/09/2018 07:16

07/09/2018 07:16

07/09/2018 07:16

WG1134115

WG1134115

WG1134115

WG1134115

Batch

WG1135089

WG1135089

WG1135089

100

100

Dilution

1

1

0.169

77.0-120

75.0-128

RDL (dry)

mg/kg

4.51

4.51

18.0-148

11.3

Qualifier

#### ACCOUNT:

PAGE:

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## BOTTOM @ 4'

## SAMPLE RESULTS - 03

Ss

Cn

Or

GI

AI

Sc

Collected date//time: 06/28/18 09:20

#### Tiotal Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	D/ AD			date // time		
Total Solids	86.2		1	07/05/2018 15:52	WG1134085	T

### 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		0.290	500	07/04/2018 21:59	WG1133637
Toluene	6.94		2.90	500	07/04/2018 21:59	WG1133637
Ethylbenzene	3.90		0.290	500	07/04/2018 21:59	WG1133637
Total Xylene	16.0		0.871	500	07/04/2018 21:59	WG1133637
TPH (GC/FID) Low Fraction	853		58.0	500	07/04/2018 21:59	WG1133637
(S) a,a,a-Trifluorotoluene(FID)	72.7	<u>J2</u>	77.0-120		07/04/2018 21:59	WG1133637
(S) a.a,a-Trifluorotoluene(PID)	.96.4		75.0-128		07/04/2018 21:59	WG1133637

#### Sample Narrative:

L1005833-03 WG1133637: 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	38.4		4.64	1	07/09/2018 07:29	WG1135089
C28-C40 Oil Range	ND		4.64	1	07/09/2018 07:29	WG1135089
(S) o-Terphenyl	83.2		18.0-148		07/09/2018 07:29	WG1135089

#### ACCOUNT: Enduring Resources

## SOUTH WALL

## SAMPLE RESULTS - 04

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Collected date/time: 06/28/18 09:10

#### Total Sollids by Method 2540 G-2011

						1 Cm
	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	20			date // time		0
Total Solids	89.3		1	07/05/2018 15:52	WG1134085	TC

#### Volatile Organic Compound's (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date // time	
Benzene	0.673		0.0560	100	07/05/2018 18:05	W/G1134115
Toluene	2.69		0.560	100	07/05/2018 18:05	WG1134115
Ethylbenzene	2.95		0.0560	100	07/05/2018 18:05	WG1134115
Total Xylene	11.0		0.168	100	07/05/2018 18:05	WG1134115
TPH (GC/FID) Low Fraction	590		11.2	100	07/05/2018 18:05	WG1134115
(S) a,a,o-Trifluorotoluene(FID)	91.9		77.0-120		07/05/2018 18:05	WG1134115
(S) a.a.a-Trifluorotoluene(PID)	95.8		75.0-128		07/05/2018 18:05	WG1134115

#### Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	<sup>°</sup> Al
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	37.2		4.48	1	07/09/2018 07:43	WG1135089	9
C28-C40 Oil Range	ND		4.48	1	07/09/2018 07:43	WG1135089	SC
(S) o-Terphenyl	97.7		18.0-148		07/09/2018 07:43	WG1135089	

#### ACCOUNT: Enduring Resources

SDG: L1005833

## WEST WALL

## SAMPLE RESULTS - 05

Collected date/time: 06/28/18 09:05

#### Total Solids by Method 2540 G-2011 Qualifier Result Dilution Analysis Batch 20 Analyte date / time To Total Solids 86.6 1 07/05/2018 15:52 WG1134085 Volatile Organic Compounds (GC) by Method 8015/8021 Ss

#### Qualifier Result (dry) RDL (dry) Dilution Analysis Batch mg/kg Analyte mg/kg date / time Benzene ND 0.577 1000 07/04/2018 22:44 WG1133637 Toluene ND 5.77 1000 07/04/2018 22:44 WG1133637 5.72 0.577 1000 07/04/2018 22:44 WG1133637 Ethylbenzene WG1133637 Total Xylene 9.85 1.73 1000 07/04/2018 22:44 TPH (GC/FID) Low Fraction 1020 115 1000 07/04/2018 22:44 WG1133637 WG1133637 (S) a,a,o-Trifluorotoluene(FID) 83.5 77.0-120 07/04/2018 22:44 (S) a.a.a-Trifluorotoluene(PID) 98.4 75.0-128 07/04/2018 22:44 WG1133637

#### Sample Narrative:

L1005833-05 WG1133637: 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	105		4.62	1	07/09/2018 07:56	WG1135089
C28-C40 Oil Range	17.4		4.62	1	07/09/2018 07:56	WG1135089
(S) o-Terphenyl	64.3		18.0-148		07/09/2018 07:56	WG1135089

ACCOUNT: Enduring Resources <sup>6</sup>Qc <sup>7</sup>Gl

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Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

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(MB)	R3323523-1	07/05/18	15;45

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

#### L1005833-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1005833=01 (	07/05/18 15:45 · (DUP)	R3323523-3	07/05/18	15:45			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	%	%		%		%	
Total Solids	91.5	90.5	1	1.11		5	

### Laboratory Control Sample (LCS)

(LCS) R3323523-2 07/0	5/18 15:45				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

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<sup>3</sup> \$§	1
<sup>4</sup> Cn	
<sup>15</sup> Sr	1

Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY

### Method Blank (MB)

(MB) R3323529-1 (	7/05/18 15:52				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	%		%	%	
Total Solids	0.00100				

#### L1005847-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1005847-02 07/05/	18 15:52 · (DUP	) R3323529-3	3 07/05/18	15:52		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.1	92.5	1	0.456		5

### Laboratory Control Sample (LCS)

(LCS) R3323529-2 (	07/05/18 15:52					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	%	%	%	%		
Total Solids	50.0	50.0	100	85.0-115		

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<sup>7</sup> GI
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DATE/TIME: 07/10/18 13:50

Velatile Organic Compounds (GC) by Method 8015/8021

# QUALITY CONTROL SUMMARY

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#### Method Blank (MB)

(MB) R3323306-5 07/04	/18 14:56			
	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	IJ		0.0217	0.100
(\$) a,a,a-Trifluorotoluene(FID)	98.7			77.0-120
(S) a.a.a-Trifluoratoluen <del>e</del> (PID)	99.4			75.0-128

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

(LCS) R3323306-1 07/04/18 13:05 · (LCSD) R3323306-2 07/04/18 13:27										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD</b> Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0504	0.0476	101	95.2	71.0-121			5.71	20
Toluene	0.0500	0.0509	0.0482	102	96.3	72.0-120			5.55	20
Ethylbenzene	0.0500	0.0512	0.0482	102	96.4	76.0-121			5.99	20
Total Xylene	0.150	0.155	0.146	103	97.2	75.0-124			5.92	20
(\$) a.a.a-Trifluorotoluene(FID)				99.2	97.9	77.0-120				
(\$) a.a.a-Trifluorotoluene(PID)				97.9	96.9	75.0-128				

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

(LCS) R3323306-3 07/04/18 13:49 · (LCSD) R3323306-4 07/04/18 14:12										
	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	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.10	6.27	111	114	70.0-136			2.74	20
(S) a.a.a-Trifluorotoluene(FID)				104	106	77.0-120				
(S) a.a.a-Trifluorotoluene(PID)				110	111	75.0-128				

Velatile Organic Compounds (GC) by Method 8015/8021

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#### L1005833-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

#### (OS) L1005833-05 07/04/18 22:44 • (MS) R3323306-6 07/04/18 23:06 • (MSD) R3323306-7 07/04/18 23:29

	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	0.0577	ND	57.8	62.0	100	107	1000	10.0-146			7.07	29
Toluene	0.0577	ND	59.1	63.4	96.4	104	1000	10.0-143			6.95	30
Ethylbenzene	0.0577	5.72	57.6	62.1	89.9	97.6	1000	10.0-147			7.42	31
Total Xylene	0.173	9.85	164	177	88.8	96.4	1000	10.0-149			7.73	30
(\$) a.a.a-Trifluorotoluene(FID)					93.1	92.6		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					97.5	97.3		75.0-128				

#### Sample Narrative:

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

#### L1005833-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(Q5) L1005833-05 07/04/18 22:44 • (M5) R3323306-8 07/04/18 23:51 • (M5D) R3323306-9 07/05/18 00:13												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	<b>RPD</b> Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	6.35	1020	7980	8130	110	112	1000	10.0-147			1.90	30
(S) a.a.a=Trifluorotaluene(FID)					102	102		77.0-120				
(\$) a.a.a-Trifluorataluene(PID)					109	108		75.0-128				

#### Sample Narrative:

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

Velatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

(MB) R3323415-5 07/05/1	18 12:05			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000395	<u>j</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
(\$) a,a,a=Trifluorotoluene(FID)	98.7			77.0-120
(S) a.a.a-Trifluoratoluene(PID)	99.3			75.0-128

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

(LCS) R3323415-1 07/05/18 10:14 · (LCSD) R3323415-2 07/05/18 10:36										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD</b> Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	96
Benzene	0.0500	0.0429	0.0478	85.8	95.6	71.0-121			10.7	20
Toluene	0.0500	0.0462	0.0516	92.4	103	72.0-120			11.0	20
Ethylbenzene	0.0500	0.0484	0.0540	96.9	108	76.0-121			10.9	20
Total Xylene	0.150	0.146	0.162	97.3	108	75.0-124			10.7	20
(S) a.a.a-Trifluorotoluene(FID)				99.1	99.0	77.0-120				
(\$) a,a,a-Trifluoratoluene(PID)				98.4	98.6	75.0-128				

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

(LCS) R3323415-3 07/05/18 10:58 • (LCSD) R3323415-4 07/05/18 11:21										
	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	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.64	5.58	103	101	70.0-136			1.11	20
(\$) a,a,a-Trifluorotoluene(FID)				102	103	77.0-120				
(S) a.a.a-Trifluorotoluene(PID)				107	107	75.0-128				



ACCOUNT:

Enduring Resources

SDG: L1005833 7 ĜI 8 AI

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Semi-Volatile Organic Compounds (GC) by Method 8015

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

(MB) R3324030-1 07/0	9/18 05:28			
	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	110			18.0-148

### Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3324030-2 07/09/18 05:42 • (LCSD) R3324030-3 07/09/18 05:55										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD</b> Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
C10-C28 Diesel Range	50.0	48.0	49.0	96.0	98.0	50.0-150			2.00	20
(S) o-Terphenyl				101	117	18.0-148				

#### L1005829-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

OS) L1005829-01_07/09/18_06:09 • (MS) R3324030-4_07/09/18_06:22 • (MSD) R3324030-5_07/09/18_06:36												
	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	53.5	10.1	54.6	47.8	83.2	70.4	1	50.0-150			13.3	20
(S) o-Terphenyl					108	83.8		18.0-148				



DATE/TIME: 07/10/18 13:50

## GLOSSARY OF TERMS

Ss

Cn

Sr

Qc

AI

Sc

#### Guide to Reading and Understanding Your Laboratory Report

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

#### Abbreviations and Definitions

1	The identification of the analyte is acceptable: the reported value is an estimate.
Qualifier	Description
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.
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 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.
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.
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.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resul 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.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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.
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.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
U	Not detected at the Reporting Limit (or MDL where applicable).
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
SDG	Sample Delivery Group.
RPD	Relative Percent Difference.
Rec.	Recovery.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
MDL	Method Detection Limit.
(cury)	Results are reported based on the dry weight of the sample. Juins will only be present on a dry report basis for sons).

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ACCOUNT:

Enduring Resources

Surrogate recovery limits have been exceeded; values are outside lower control limits.

SDG: L1005833

## **ACCREDITATIONS & LOCATIONS**

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Pace/Nationaliis/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 needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the network laboratories in our industry. The most significant/benefit to our one location design is the design of our laboratory canpus. 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 "	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	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee 14	2006
Louisiana 1	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

#### Third Party Federal Accreditations

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

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

#### **Our Locations**

Enduring Resources

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



L1005833

07/10/18 13:50)

Enduring Descurrent		Billing In	Billing Information: James McDaniel 332 County Road 3100 Aztec, NM 87410					Analysis	/ Container	/ Preservati	ive	-	Chain of Custor	ty Page e
332 County Road 3100 Aztec, NM 87410	oad 3100 Aztec, N 410				Pres Chk		coel							ESC
Report to: Sames Ne Danie Project Description: Spill		Email To	City/State Collected:	Gerdvin	7 13.000									4 171.22 854 859 9 10
Phone: 505-636-9731 Fax: Collected by (print):	Client Project #	-	P.O. #			1	(MRC)						L# LIDE D21	25833 1
Collected by Longesture:	Rush? (Lab (     Same Day     Next Day     Two Day     Three Day	MUST Be Notified) Five Day 5 Day (Rad Only) 10 Day (Rad Only)	M Quote # Date	Results Needed	No.	N(BTEX	(cryba						Acctnum: EN Template: Prelogin: TSR: 288 - Daj	DRESANM
Sample ID	Comp/Grab M	Aatrix • Depth	Date	Time	Cntrs	800	Bois						Shipped Via: Remarks	Sample # Cab
Vorth Wall	Comp -	ss -	6/28/1	E 900	1	XX	X							-01
South Wall	Comp	<u>ss</u> - <u>ss</u> - <u>cr</u> -	6/28/	E 910	1	XXX	X							-03
west vv-ii	comp -		6/-2/			X								-05
											_			
Matrix: IS - Soil AIR - Air F - Filter	Remarks:							ali				Lai COC Seal	ple Receipt ()	becklins .
IW - Groundwater B - Bioassay IW - WasteWater IW - Drinking Water IT - Other	Samples returned	via: Courier		Tracking # ALOI	2	11 5	1740	Flow		ther	Anna (1)	COC Signe Bottles a Correct b Sufficien	d/Accusate) reive intact: ottles used: t volume sent:	INKER
elinquistant by (Signiture)	5 6	128/18	Time: 12 1612	Received by: (Signat	ture)	40	1 100	Trip Blar	k Received:	Yes No HCL7 Mit	toH	VOA Zero Preservat	Readspace: ion Correct/Ch	ecked:
finquished by : (Signature)	) Da	te:	Time:	Received by: (Signat	ure)			Temp: 4,3	°C	Bottles Receiv	ed: 40e	if preservati	on required by Lo	(in: Date/Time
envelopen nå i faskuernun)	Dat	LØ:	Time:	Received for lab by:	(Signati	ire) 2		Date:	alis	Time: DBH	5	Hold:		Condition NCF / C



# ANALYTICAL REPORT

July 19, 2018

### **Enduring Resources**

Sample Delivery Group:	L1010044
Samples Received:	07/18/2018
Project Number:	
Description:	Spill
Site:	CHACO 2308 6H 395H
Report To:	James McDaniel
	332 County Road 3100
	Aztec, NM 87410

Entire Report Reviewed By: Napline & Richards

Daphne Richards Project Manager

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

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SDG: 11010044

## SAMPLE SUMMARY

#### ONE LAB. NATIONWIDE.

			Collected by	Collected date/time	Received date/time
EAST WALL L1010044-01 Solid			Chad Srell	07/16/18 15:20	07/18/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	2
Total Solids by Method 2540 G-2011	WG#139584	1	07/18/18 10:51	07/18/18 11:04	JD
Volatile Organic Compounds (GC) by Method 8015/8021	WG1139588	200	07/18/18 11:02	07/18/18 14:26	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1139814	1	07/18/18 15:46	07/18/18 22:18	MTJ
			Collected by	Collected date/time	Received date/time
WEST WALL L1010044-02 Solid			Chad Snell	07/16/18 15:25	07/18/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	L
Total Solids by Method 2540 G-2011	WG1139584	1	07/18/18 10:51	07/18/18 11:04	JD
Volatile Organic Compounds (GC) by Method 8015/8021	WG1140203	25	07/18/18 11:02	07/19/18 12:30	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1139814	1	07/18/18 15:46	07/18/18 22:30	MTJ 7

-

## CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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 would affect the quality of the data.

Dapine R Richards

Daphne Richards Project Manager





## EAST WALL

## SAMPLE RESULTS - 01

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Collected date//time: 07/16/18 15:20

#### Total Sollids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date // time	
Total Solids	81.4		1	07/18/2018 11:04	WG1139584

#### Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	2.21		0.123	200	07/18/2018 14:26	WG1139588
Toluene	4.73		1.23	200	07/18/2018 14:26	WG1139588
Ethylbenzene	1.83		0.123	200	07/18/2018 14:26	WG1139588
Total Xylene	7.64		0.368	200	07/18/2018 14:26	WG1139588
TPH (GC/FID) Low Fraction	716		24.6	200	07/18/2018 14:26	WG1139588
(S) a.a.o-Trifluorotoluene(FID)	81.5		77.0-120		07/18/2018 14:26	WG1139588
(S) a.a.a-Trifluorotoluene(PID)	103		75.0-128		07/18/2018 14:26	WG1139588

#### 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	14.5		4.91	1	07/18/2018 22:18	WG1139814
C28-C40 Oil Range	ND		4.91	1	07/18/2018 22:18	WG1139814
(S) o-Terphenyl	38.1		18.0-148		07/18/2018 22:18	WG1139814

ACCOUNT:								
Enduring Resources								

## WEST WALL

## SAMPLE RESULTS - 02

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Collected date//time: 07/16/18 15:25

#### Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	26			date // time		-
Total Solids	913		1	07/18/2018 11:04	W/G1139584	Ta

#### Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
Benzene	0.0562		0.0137	25	07/19/2018 12:30	WG1140203	
Toluene	ND		0.137	25	07/19/2018 12:30	WG1140203	
Ethylbenzene	0.0535		0.0137	25	07/19/2018 12:30	WG1140203	
Total Xylene	0.0727		0.0411	25	07/19/2018 12:30	WG1140203	
TPH (GC/FID) Low Fraction	10.8		2.74	25	07/19/2018 12:30	WG1140203	
(S) a,a,a-Trifluorotoluene(FID)	91.2		77.0-120		07/19/2018 12:30	WG1140203	
(S) a,a,a-Trifluorotoluene(PID)	100		75.0-128		07/19/2018 12:30	WG1140203	

#### Sample Narrative:

L1010044-02 WG1140203: Target and 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	16.4		4.38	1	07/18/2018 22:30	WG1139814
C28-C40 Oil Range	12.1		4.38	1	07/18/2018 22:30	WG1139814
(S) o-Terphenyl	63.0		18.0-148		07/18/2018 22:30	WG1139814



Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

(MB) R3326613-1	07/18/18	11:04		
			100	

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

#### L1010048-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1010048-03 07/18/18	11:04 • (DUP) F	3326613-3 07	7/18/18 11:0	)4		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	74.3	73.9	1	0.552		5

### Laboratory Control Sample (LCS)

(LCS) R3326613-2 07/	18/18 11:04				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

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DATE/TIME: 07/19/18 14:15

Velatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

IB) R3326571-5 07/18/	18 13:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
nalyte	mg/kg		mg/kg	mg/kg
inzene	0.000147	7	0.000120	0.000500
ene	0.000415	<u>ر</u>	0.000150	0.00500
lylbenzene	U		0.000110	0.000500
al Xylene	U		0.000460	0.00150
(GC/FID) Low Fraction	0.0758	<u>_</u>	0.0217	0.100
S) .a=Trifluorotoluene(FID)	105			77.0-120
i) a-Trifluoratoluene(PID)	107			75.0-128

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

(LCS) R3326571-1 07/18/18	3 10:23 · (LCSD)	R3326571-2	07/18/18 10:44							
	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	%	%	%			%	%
Benzene	0.0500	0.0487	0.0480	97.5	96.0	71.0-121			1.50	20
Toluene	0.0500	0.0496	0.0486	99.3	97.3	72.0-120			2.04	20
Ethylbenzene	0.0500	0.0543	0.0531	109	106	76.0-121			2.35	20
Total Xylene	0.150	0.167	0.163	111	108	75.0-124			2.55	20
(\$) a.a.a-Trifluorotoluene(FID)				104	104	77.0-120				
(\$) a,a,a-Trifluorotoluene(PID)				104	104	75.0-128				

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

(LCS) R3326571-3 07/18/18	_CS) R3326571-3_07/18/18_11:58 + (LCSD) R3326571-4_07/18/18_12:19											
	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	%	%	%			%	%		
TPH (GC/FID) Low Fraction	5.50	5.47	5.04	99.4	91.7	70.0-136			8.06	20		
(\$) a,a,g-Trifluorotoluene(FID)				100	99.9	77.0-120						
(S) a.a.a-Trifluorotoluene(PID)				113	112	75.0-128						



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Volatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

(MB) R3326895-5 07/19/	18 11:45				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	IJ		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)	98.8			77.0-120	
(S) a.a.a-Trifluoratoluene(PID)	98.8			75.0-128	

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

(LCS) R3326895-1 07/19/1	18 09:54 · (LCSI	) R3326895-2	2 07/19/18 10:16	5						
	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	200	%	%			%	%
Benzene	0.0500	0.0498	0.0482	99.5	96.4	71.0-121			3.20	20
Toluene	0.0500	0.0511	0.0497	102	99.4	72.0-120			2.85	20
Ethylbenzene	0.0500	0.0507	0.0493	101	98.6	76.0-121			2.78	20
Total Xylene	0.150	0.156	0.152	104	101	75.0-124			2.92	20
(\$) a,a,a-Trifluorotoluene(FID)				98.5	98.9	77.0-120				
(\$) a,a,a-Trifluorotoluene(PID)				97.3	97.8	75.0-128				

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

(LCS) R3326895-3 07/19/18 10:39 • (LCSD) R3326895-4 07/19/18 11:01											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD</b> Limits	
Analyte	mg/kg	mg/kg	mg/kg	9%	%	%			%	2%	
TPH (GC/FID) Low Fraction	5.50	6.02	5.72	109	104	70.0-136			5.14	20	
(\$) a,a,a-Trifluoratoluene(FID)				105	104	77.0-120					
(S) a.a.a-Trifluorotoluene(PID)				111	110	75.0-128					

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Semi-Volatile Organic Compounds (GC) by Method 8015

## QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

#### Method Blank (MB)

(MB) R3326702-1 07/1	8/18 21:41			
	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	82.2			18.0-148

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

(LCS) R3326702-2 07/18/18 21:54 • (LCSD) R3326702-3 07/18/18 22:06											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD</b> Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
C10-C28 Diesel Range	50.0	30.9	31.2	61.7	62.4	50.0-150			0.998	20	
(S) o-Terphenyl				107	103	18.0-148					



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## GLOSSARY OF TERMS

Ss

Cn

Sr

Qc

AI

Sc

#### Guide to Reading and Understanding Your Laboratory Report

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

#### Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
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

J

The identification of the analyte is acceptable; the reported value is an estimate.

SDG: L1010044

## ACCREDITATIONS & LOCATIONS

Ss

Cn

Sr

Qc

GI

Sc

PAGE:

12 of 13

Pace National list 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 "	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia 1	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
(ansas	E-10277	Rhode Island	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee 1 4	2006
ouisiana 1	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Aassachusetts	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 Fairty	r color of model calcolion of to	
A2LA - ISO 17025	1461.01	

HELA ISO IIVES	1401.01	AITIA-LAF, LLC LINLAF	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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<sup>1</sup>Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



		1. 19 1.	Billing Infor	mation:		1			1	Analysis / Con	tainer / Pr	eservative		Chain of Custo	dy Page of
Enduring Resources 332 County Road 3100 Aztec, NM 87410		James McDaniel 332 County Road 3100 Aztec, NM 87410			Pres									ESC	
Report to: Sames Mc Dan. el Smede Project Description: S.O.11			an elocodoring resource City/state Collected:			n	(MRO)						12065 Lebaron I Mount Juliet, TN Phone: 613-758- Phone: 800-757- Fax: 615-758-585		
Phone: 505-636-9731 Fax:	Client Project			Lab Project #		I.		Rai						L# /D/	6099 7
Chied Snell	Site/Facility iD	308 6	H 395H	P.O.#			5X)	0/10						Acctnum: EN	DRESANM
Collected by (signature):	Rush? (L Same Da Next Dan Two Day Three Da	ab MUST Be V Five 1 V 5 Day 10 Do	Notified) Day (Rad Only) ay (Rad Only)	Quote # Date R	esults Needed	No.	21 (BE	15(69						Template: Prelogin: 15R: 238 - Da PB:	phne Richards
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	00	8						Shipped Via:	
Feel upll	Campo	SS	-	7-16-19	2 3:20 pm	1.	X	X						REITARIS	Sample # (lab only)
west wall	Come	55	-	7-16-18	3. 3:25 pm	21	×	X							52
						10									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	Remarks:	Remarks:								pH	Tem	·	Sample Receipt Checklat COC Seal Present/Intact: M2 - N COC Signed/Accurate:		
WW - WasteWater DW - Drinking Water OT - Other	Samples returned via: UPSFedExCourierTracking#T						32	60	1-	Flow Other 170			Correct bottles used: Sufficient volume sent:		
Relinquished by : (Signature)		Date:	. 16 1	ime:	Received by: (Signa	iture)				Trip Blank Re	ceived: Y	HCL / MeoH	Preserv	o deedspace: ation Correct/Ct	eckedi _Y _N
Relinquished by : (SigNature) Date:		TI	ime:	Received by: (Signa	iture)				Temp: K	°C Bott	es Received.	If preserv	vation required by Lo	gin: Date/Time	
Relinquished by : (Signature)		Date:	Т	ime:	Received for lab by	: (Signa	ture)			Date: 7/19/19	Tim	845	Hold:		Conditioni NCF / OK