

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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

NMOCD  
JUL 13 2018  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.  
DISTRICT III  
Form C-141  
Revised April 3, 2017

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: <b>Enduring Resources, LLC</b>	Contact: <b>Chad Snell</b>	
Address: <b>332 Road 3100, Aztec, New Mexico 87410</b>	Telephone No.: <b>505-444-0586</b>	
Facility Name: <b>Chaco 2308 6H 395H</b>	Facility Type: <b>Well Site (Oil)</b>	
Surface Owner: <b>BLM</b>	Mineral Owner: <b>BLM</b>	API No. <b>30-043-35553</b>

LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>6</b>	Township <b>23N</b>	Range <b>8W</b>	Feet from the <b>1687</b>	North/South Line <b>NORTH</b>	Feet from the <b>1263291</b>	East/West Line <b>EAST</b>	County <b>San Juan</b>
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Latitude 36.2590237 Longitude -107.714816 NAD83

NATURE OF RELEASE

Type of Release: <b>Produced Oil</b>	Volume of Release: <b>12 BBLS</b>	Volume Recovered: <b>0 BBLS</b>
Source of Release: <b>VRU piping failure</b>	Date and Hour of Occurrence: <b>June 25, 2018</b>	Date and Hour of Discovery: <b>June 25, 2018 - 10:30 AM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

**NOT IMPACTED**



Describe Cause of Problem and Remedial Action Taken.\*

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. Approximately 12 bbls was released based on spill calculator. Zero (0) bbls of oil were recovered. The well was shut in to stop the release. The site was ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10 due to a wash less than 1,000 feet from the location. This set the closure standard to 1,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.\*

On June 28, 2018, approximately 50 bbls of impacted soil was excavated from the spill area. The excavation was approximately 9' long by 4' wide, by 4' deep; see Field Notes. There were five (5) composite samples that were collected from the excavated area. Composite samples are from the North Wall, West Wall, South Wall, East Wall and the bottom at four (4) foot below surface which was sent in for laboratory analysis. Each sample was analyzed for TPH (GRO/DRO/MRO) via USEPA Method 8015, and for Benzene and total BTEX via USEPA Method 8021. Samples from North Wall, South Wall and Bottom returned results below the regulatory standards determined for this location. West and East Wall samples returned results above the regulatory standard; see attached Analytical Results. Further excavation is being completed and samples will be taken.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: <b>Chad Snell</b>	Approved by Environmental Specialist: 	
Title: <b>HSE Tech</b>	Approval Date: <b>7/23/18</b>	Expiration Date: <b>7/23/18</b>
E-mail Address: <b>csnell@enduringresources.com</b>	Conditions of Approval: <b>Sample Remaining</b>	Attached <input checked="" type="checkbox"/>
Date: <b>7/10/2018</b>	Phone: <b>505-444-0586</b>	<b>Wall's lease for TPH, BTEX, Benzene</b>

NCS 1820455071

(29)



Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/13/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number #NCS 1820455071 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before N/A. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

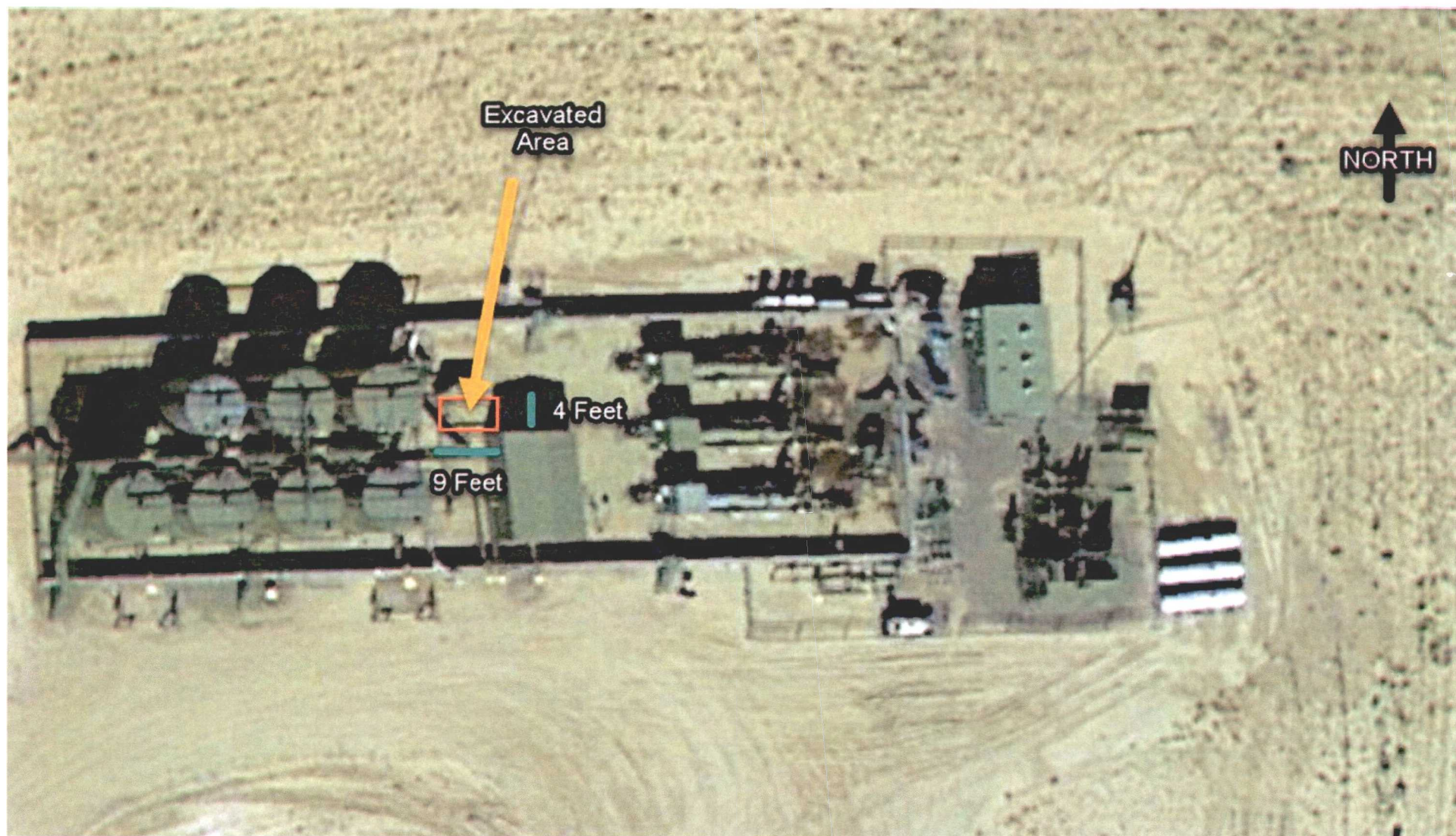
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us





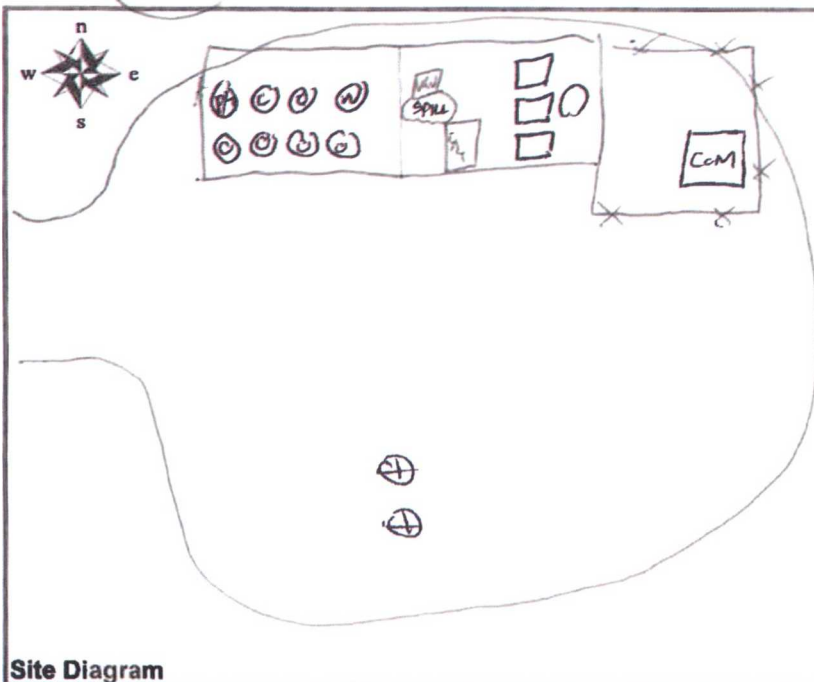




# ENDURING RESOURCES

## ON-SITE FORM

Well Name Chaco 230E 6H 395H API # 30-045-35553  
Section 6 Township 23N Range 8W County San Juan State NM  
Contractors On-Site None Time On-Site 8:40 Time Off-Site 9:35  
Spill Amount 12 bbls Spilled (Oil) Produced Water/Other — Recovered 0  
Land Use ( Range / Residential / Tribe — ) Spill Area 4 x 9 x 4 deep



Site Diagram



Sample Location

Sample Location

\* Soil firm clay. Tough to sample

### Comments

### Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	—	NA
9:00	1	North Wall	Brown Clay, Some water	—	ECOL, ECIS
9:05	2	West Wall	↓	—	↓
9:10	3	South Wall	↓	—	↓
9:15	4	East Wall	↓	—	↓
9:20	5	Bottom @ 4'	↓	—	↓

Name (Print)

James McDaniel

Date

6/20/18

Name (Signature)

[Signature]

Company

Enduring Res



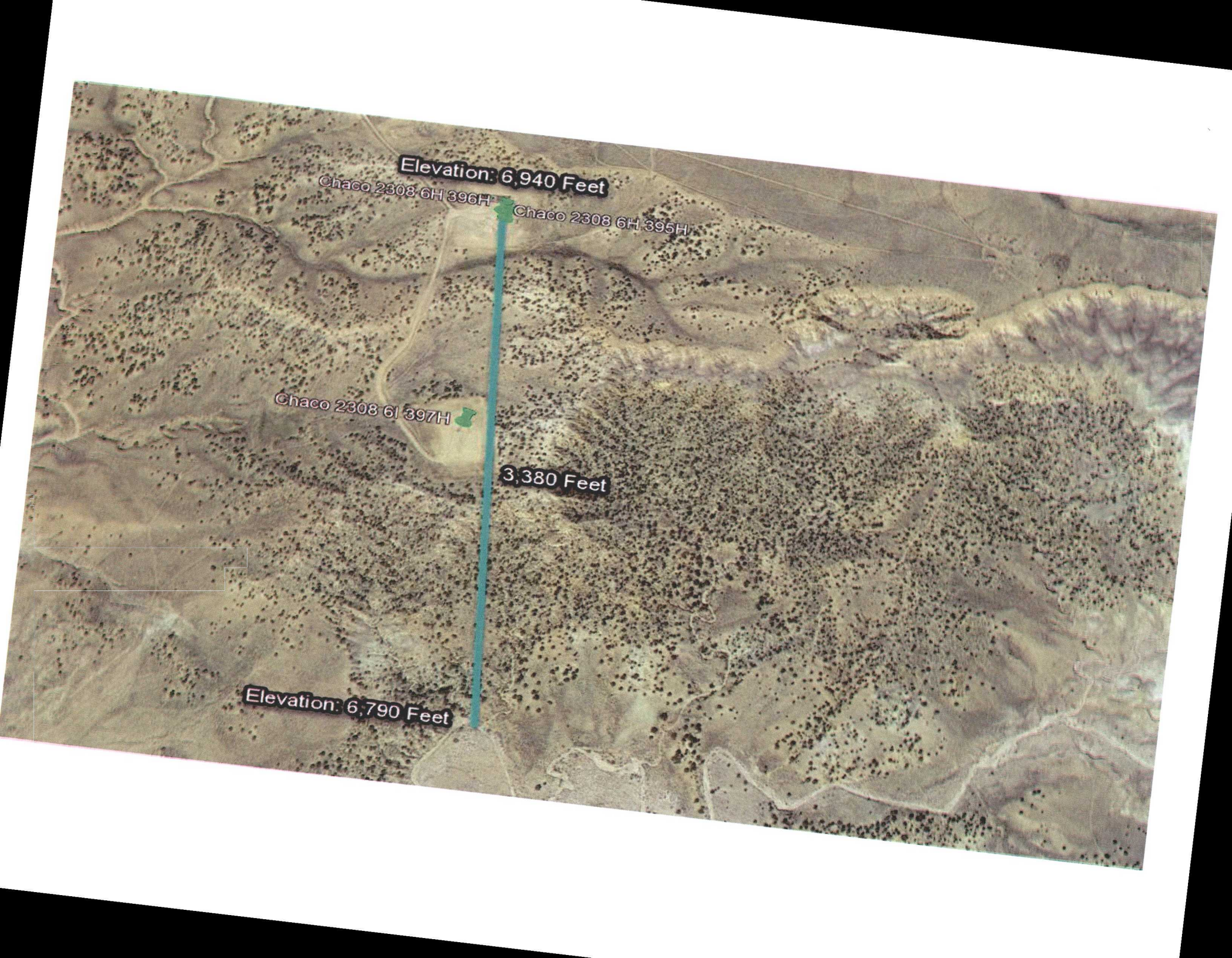


Chaco 2308 6H 396H

Chaco 2308 6H 395H

425 Feet





Elevation: 6,940 Feet

Chaco 2308 6H 396H

Chaco 2308 6H 395H

Chaco 2308 6I 397H

3,380 Feet

Elevation: 6,790 Feet



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:



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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# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



## EAST WALL L1005833-01 Solid

Collected by: James McDaniel  
Collected date/time: 06/28/18 09:15  
Received date/time: 06/29/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
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

Co

Tc

Cn

## NORTH WALL L1005833-02 Solid

Collected by: James McDaniel  
Collected date/time: 06/28/18 09:00  
Received date/time: 06/29/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
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

Sr

Qc

Gl

Al

## BOTTOM @ 4' L1005833-03 Solid

Collected by: James McDaniel  
Collected date/time: 06/28/18 09:20  
Received date/time: 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	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

Sc

## SOUTH WALL L1005833-04 Solid

Collected by: James McDaniel  
Collected date/time: 06/28/18 09:10  
Received date/time: 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	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

## WEST WALL L1005833-05 Solid

Collected by: James McDaniel  
Collected date/time: 06/28/18 09:05  
Received date/time: 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





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.

Daphne Richards  
Technical Service Representative





## EAST WALL

Collected date/time: 06/28/18 09:15

## SAMPLE RESULTS - 01

L1005833

ONE LAB. NATIONWIDE.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	07/05/2018 15:45	<a href="#">WG1134083</a>

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	60.1		0.546	1000	07/04/2018 21:15	<a href="#">WG1133637</a>
Toluene	153		5.46	1000	07/04/2018 21:15	<a href="#">WG1133637</a>
Ethylbenzene	42.4		0.546	1000	07/04/2018 21:15	<a href="#">WG1133637</a>
Total Xylene	171		1.64	1000	07/04/2018 21:15	<a href="#">WG1133637</a>
TPH (GC/FID) Low Fraction	13700		273	2500	07/05/2018 19:11	<a href="#">WG1134115</a>
(S) o,a,o-Trifluorotoluene(FID)	86.0		77.0-120		07/04/2018 21:15	<a href="#">WG1133637</a>
(S) o,a,o-Trifluorotoluene(FID)	86.0		77.0-120		07/05/2018 19:11	<a href="#">WG1134115</a>
(S) o,a,o-Trifluorotoluene(PID)	86.2		75.0-128		07/04/2018 21:15	<a href="#">WG1133637</a>
(S) o,a,o-Trifluorotoluene(PID)	93.2		75.0-128		07/05/2018 19:11	<a href="#">WG1134115</a>

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

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





## NORTH WALL

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

## SAMPLE RESULTS - 02

L1005833

ONE LAB. NATIONWIDE.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.7		1	07/05/2018 15:45	<a href="#">WG1134083</a>

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.848		0.0563	100	07/05/2018 17:43	<a href="#">WG1134115</a>
Toluene	1.65		0.563	100	07/05/2018 17:43	<a href="#">WG1134115</a>
Ethylbenzene	1.80		0.0563	100	07/05/2018 17:43	<a href="#">WG1134115</a>
Total Xylene	8.78		0.169	100	07/05/2018 17:43	<a href="#">WG1134115</a>
TPH (GC/FID) Low Fraction	582		11.3	100	07/05/2018 17:43	<a href="#">WG1134115</a>
(S) o,a,o-Trifluorotoluene(FID)	88.8		77.0-120		07/05/2018 17:43	<a href="#">WG1134115</a>
(S) o,a,o-Trifluorotoluene(PID)	94.4		75.0-128		07/05/2018 17:43	<a href="#">WG1134115</a>

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	45.8		4.51	1	07/09/2018 07:16	<a href="#">WG1135089</a>
C28-C40 Oil Range	17.7		4.51	1	07/09/2018 07:16	<a href="#">WG1135089</a>
(S) o-Terphenyl	82.5		18.0-148		07/09/2018 07:16	<a href="#">WG1135089</a>

Co

Tc

Ss

Cn

Qc

Gl

Al

Sc



## BOTTOM @ 4'

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

## SAMPLE RESULTS - 03

L1005833

ONE LAB. NATIONWIDE.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	07/05/2018 15:52	<a href="#">WG1134085</a>

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.290	500	07/04/2018 21:59	<a href="#">WG1133637</a>
Toluene	6.94		2.90	500	07/04/2018 21:59	<a href="#">WG1133637</a>
Ethylbenzene	3.90		0.290	500	07/04/2018 21:59	<a href="#">WG1133637</a>
Total Xylene	16.0		0.871	500	07/04/2018 21:59	<a href="#">WG1133637</a>
TPH (GC/FID) Low Fraction	853		58.0	500	07/04/2018 21:59	<a href="#">WG1133637</a>
(S) o,a,o-Trifluorotoluene(FID)	72.7	<u>32</u>	77.0-120		07/04/2018 21:59	<a href="#">WG1133637</a>
(S) o,a,o-Trifluorotoluene(PID)	96.4		75.0-128		07/04/2018 21:59	<a href="#">WG1133637</a>

## Sample Narrative:

L1005833-03 WG1133637: Non-target compounds too high to run at a lower dilution.

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	38.4		4.64	1	07/09/2018 07:29	<a href="#">WG1135089</a>
C28-C40 Oil Range	ND		4.64	1	07/09/2018 07:29	<a href="#">WG1135089</a>
(S) o-Terphenyl	83.2		18.0-148		07/09/2018 07:29	<a href="#">WG1135089</a>

Cd

Tc

Ss

Cn

Qc

Gl

Al

Sc



## SOUTH WALL

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

## SAMPLE RESULTS - 04

L1005833

ONE LAB. NATIONWIDE.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	07/05/2018 15:52	<a href="#">WG1134085</a>

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

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

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

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

Cd

Tc

Ss

Cn

Qc

Gl

Al

Sc



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	07/05/2018 15:52	<a href="#">WG1134085</a>

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

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

## Sample Narrative:

L1005833-05 WG1133637: Non-target compounds too high to run at a lower dilution.

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	105		4.62	1	07/09/2018 07:56	<a href="#">WG1135089</a>
C28-C40 Oil Range	17.4		4.62	1	07/09/2018 07:56	<a href="#">WG1135089</a>
(S) o-Terphenyl	64.3		18.0-148		07/09/2018 07:56	<a href="#">WG1135089</a>

Cd

Tc

Ss

Cn

Qc

Gl

Al

Sc



WG1134083

Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY

L1005833-01.02

ONE LAB. NATIONWIDE.



## Method Blank (MB)

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

	MB Result	<u>MB Qualifier</u>	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	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.5	90.5	1	1.11		5

## Laboratory Control Sample (LCS)

(LCS) R3323523-2 07/05/18 15:45

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

1  
Cd2  
Tc3  
Ss4  
Cn5  
Sr7  
Gl8  
Al9  
Sc

WG1134085

Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY

L1005833-03.04.05

ONE LAB. NATIONWIDE.



## Method Blank (MB)

(MB) R3323529-1 07/05/18 15:52

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
<b>Analyte</b>	%		%	%
Total Solids	0.00100			

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

(OS) L1005847-02 07/05/18 15:52 • (DUP) R3323529-3 07/05/18 15:52

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
<b>Analyte</b>	%	%		%		%
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	<u>LCS Qualifier</u>
<b>Analyte</b>	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



ACCOUNT:

Enduring Resources

PROJECT:

SDG:

L1005833

DATE/TIME:

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WG1133637

Volatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

L1005833-01.03.05

ONE LAB. NATIONWIDE.



## Method Blank (MB)

(MB) R3323306-5 07/04/18 14:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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) o,p,p'-Trifluorotoluene(FID)	98.7			77.0-120
(S) o,p,p'-Trifluorotoluene(PID)	99.4			75.0-128

Cd

Tc

Ss

Cn

Sr

## 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

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
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
(S) o,p,p'-Trifluorotoluene(FID)				99.2	97.9	77.0-120				
(S) o,p,p'-Trifluorotoluene(PID)				97.9	96.9	75.0-128				

Gl

Al

Sc

## 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

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.10	6.27	111	114	70.0-136			2.74	20
(S) o,p,p'-Trifluorotoluene(FID)				104	106	77.0-120				
(S) o,p,p'-Trifluorotoluene(PID)				110	111	75.0-128				

WG1133637

Volatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

L1005833-01.03.05

ONE LAB. NATIONWIDE.



## 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

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
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
(S) 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)

(OS) L1005833-05 07/04/18 22:44 • (MS) R3323306-8 07/04/18 23:51 • (MSD) R3323306-9 07/05/18 00:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.35	1020	7980	8130	110	112	1000	10.0-147			1.90	30
(S) a,a,a-Trifluorotoluene(FID)					102	102		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					109	108		75.0-128				

## Sample Narrative:

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





WG1134115

Volatile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

L1005833-01.02.04

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## Method Blank (MB)

(MB) R3323415-5 07/05/18 12:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000395	J	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) o,p,p'-Trifluorotoluene(FID)	98.7			77.0-120
(S) o,p,p'-Trifluorotoluene(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

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
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) o,p,p'-Trifluorotoluene(FID)				99.1	99.0	77.0-120				
(S) o,p,p'-Trifluorotoluene(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

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.64	5.58	103	101	70.0-136			1.11	20
(S) o,p,p'-Trifluorotoluene(FID)				102	103	77.0-120				
(S) o,p,p'-Trifluorotoluene(PID)				107	107	75.0-128				

WG1135089

Semi-Volatile Organic Compounds (GC) by Method 8015

## QUALITY CONTROL SUMMARY

L1005833-01.02.03.04.05

ONE LAB. NATIONWIDE



## Method Blank (MB)

(MB) R3324030-1 07/09/18 05:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	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

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
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

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
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				







## 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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.

Cn

Tc

Ss

Cn

Sr

Qc

AI

Sc

# ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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

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

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

## State Accreditations

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	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

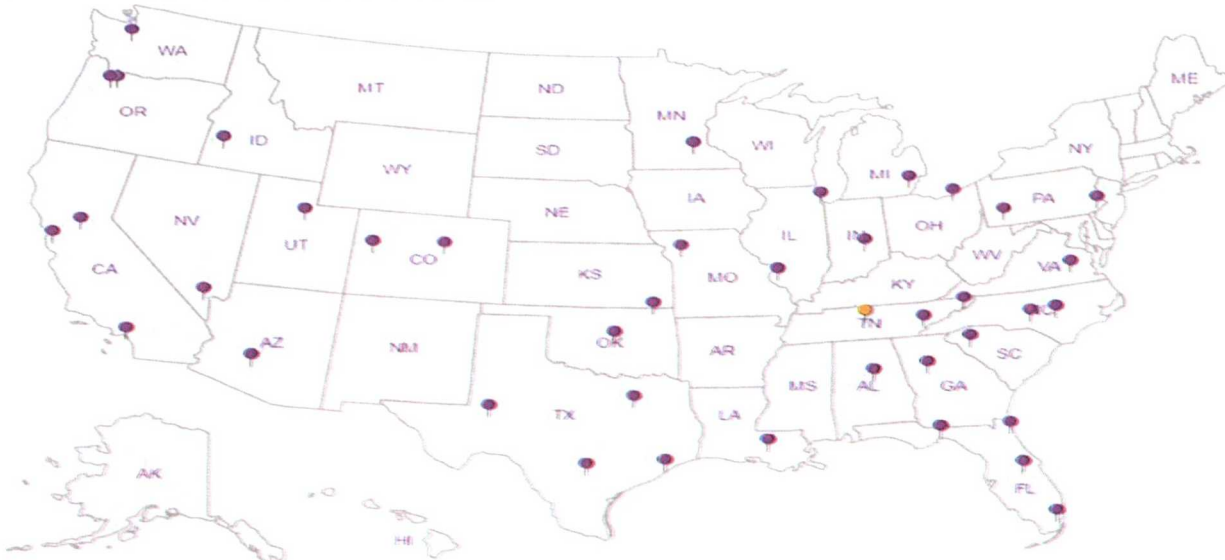
## Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 <sup>5</sup>	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

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:  
L1005833

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

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# Enduring Resources

332 County Road 3100  
Aztec, NM 87410

## Billing Information:

James McDaniel  
332 County Road 3100  
Aztec, NM 87410

Pres  
Chk

## Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# L1005833  
D211

Acctnum: ENDRESANM

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Remarks

Sample # (lab only)

Report to:

James McDaniel

Email To:

jmcDaniel1@enduringresources.com

Project

Description: Spill

City/State

Collected:

Phone: 505-636-9731

Fax:

Client Project #

Lab Project #

Collected by (print):

J McDaniel

Site/Facility ID #

Chmcc 2308 6H 395H

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Quote #

Date Results Needed

Immediately

Packed on ice: N ☒ Y ☒

No.  
of  
Cntrs

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

East Wall

Comp

SS

-

6/28/18

915

1

X

X

North Wall

Comp

SS

-

6/28/18

900

1

X

X

Bottom @ 4'

Comp

SS

-

6/28/18

920

1

X

X

South Wall

Comp

SS

-

6/28/18

910

1

X

X

West Wall

Comp

SS

-

6/28/18

905

1

X

X

\* Matrix:

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

Tracking # 4196 3260 1780

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N  
COC Signed/Accurate: ☒ Y ☐ N  
Bottles Arrive Intact: ☒ Y ☐ N  
Correct bottles used: ☒ Y ☐ N  
Sufficient volume sent: ☒ Y ☐ N  
If Applicable  
VOA Zero Headpace: ☒ Y ☐ N  
Preservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)

Date: 6/28/18

Time: 1612

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐  
HCL/ MeOH  
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 4.3°C Bottles Received: 5 = 400cl

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 6/29/18 Time: 0845

Hold:

Condition: NCF ☒ OK ☐















