

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

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: James McDaniel	Contact Telephone: 505-636-9731
Contact email: jmcdaniel@enduringresources.com	Incident # (assigned by OCD) NCS1826741395
Contact mailing address: 200 Energy Court, Farmington, NM 87401	

Location of Release Source

Latitude 36.569125 Longitude -107.466386
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Rincon Unit 32A	Site Type: Gas Wellsite
Date Release Discovered: 9/4/2018	API# (if applicable) 30-039-22312

Unit Letter	Section	Township	Range	County
P	16	27N	6W	Rio Arriba

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

NMOC
DEC 04 2018
DISTRICT III

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): UNK	Volume Recovered (bbls): None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The flowline entering the BGT leaked due to corrosion, and the water surrounded the tank, giving the appearance that there was a leak in the BGT. Once the tank was cleaned out, no leak was discovered in the tank. Upon further inspection, a leak was found in the flowline entering the tank. The leak was the result of corrosion on the flowline.

51

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

Initial Response

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

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

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>85</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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Printed Name: James McDaniel Title: HSE Supervisor
Signature: [Signature] Date: 11/29/18
email: jmdaniel@enduringresources.com Telephone: 505-636-9731

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
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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 Supervisor
 Signature: [Signature] Date: 505-636-9731
 email: jmcDaniel@enduringresources.com Telephone: 11/29/18

OCD Only

Received by: OCD Date: 12/4/18

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.

Closure Approved by: [Signature] Date: 1/22/19
 Printed Name: Cory Title: Environmental Spec.

Rincon 32A Remediation Narrative

9/5/2018

Potential BGT leak was reported to the NMOCD via email; see attached email

9/18/2018

Initial Spill Report was submitted to the NMOCD for a potential leak in the BGT at this location

9/25/2018

Enduring personnel on-site to closure a below grade tank at the Rincon 32A Location. The BGT was removed, and samples were collected beneath the BGT, around the location of the border BGT, and 3' beneath the bottom of the BGT. For sampling locations, please see the *Field Notes* from 9/25/2018. The samples returned results over the 'pit rule' standards, confirming that a release had occurred, and the site was ranked according to depth to GW. Cathodic well information available for the site indicated that groundwater is present at approximately 85' below ground surface; see *Data Sheet for Deep Bed Cathodic Protection Wells*. This set the closure standard to 1,000 ppm TPH (DRO+GRO), 2,500 ppm TPH (DRO+GRO+ORO), 10 ppm benzene, 50 ppm total BTEX, and 10,000 ppm chlorides. Sample results for the BGT closure and the sample collected from 3' below the BGT bottom returned results above standards determined for this site; see attached *Sample Results Table*.

10/3/18

NMOCD notified via email from Mitch Morris regarding sampling to be conducted at the location; see attached email.

10/9/2018

Excavation activities occurred at the Rincon 32A location to remove impacted soils. The impacted area was excavated to extent of 15' x 9' x 5' deep, where closure samples were collected; see attached *Field Notes*. Composite samples were collected from the bottom of the excavated area, and from each of the 4 walls. Each composite sample was collected by collecting 5 individual grab samples from the each of the walls and the bottom, and homogenizing them in a plastic bag to create a 5-point composite sample. These samples were submitted to the laboratory for analysis.

10/23/2018

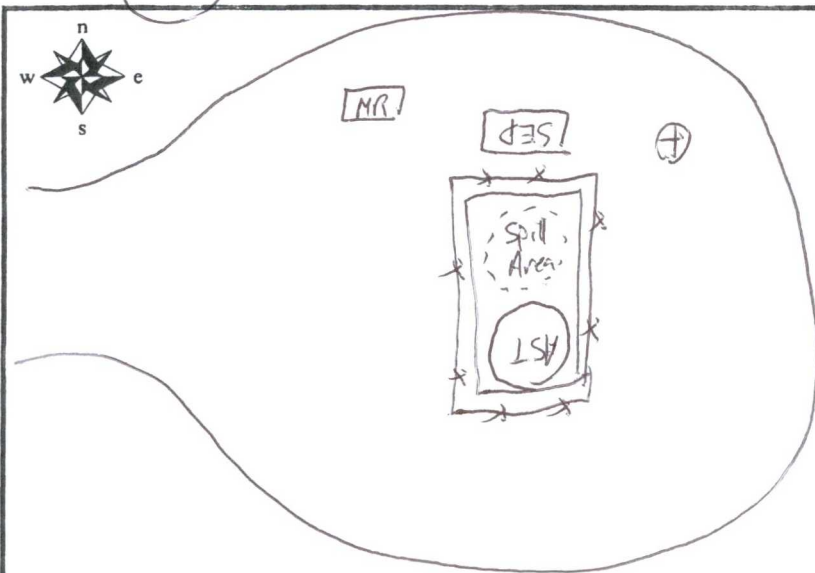
Sample results came back from the lab confirming that each of the four walls and the bottom were below the regulatory requirements determined for this location; see *Sample Results Table* and *Analytical Results*. This data confirmed that the BGT is closed for this location.



ENDURING RESOURCES

ON-SITE FORM

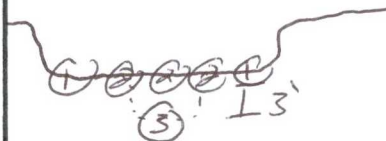
Well Name Rincon Unit 321A API # 30-039-22312
Section 16 Township 27N Range 6W County RA State NM
Contractors On-Site LAL Time On-Site 9:55 Time Off-Site 11:10
Spill Amount UNK bbls Spilled (Oil/Produced Water/Other —) Recovered 0
Land Use (Range / Residential / Tribe —) Spill Area 22 x 25 x ? deep



Site Diagram



Sample Location



Sample Location

*One sample collected for BGT Closure beneath Tank
*Additional Spill sample collected from area around tank

Comments

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
6:15	1	BGT Closure Sample	Dry, brown, no odor	—	Bois, Boz, chlorides
10:20	2	Spill Sample 0-6"	Wet, some color	—	" "
10:30	3	Grub sample @ 3'	Wet, some faint odor	—	" "

Name (Print) James McDaniel

Date 9/25/18

Name (Signature) [Signature]

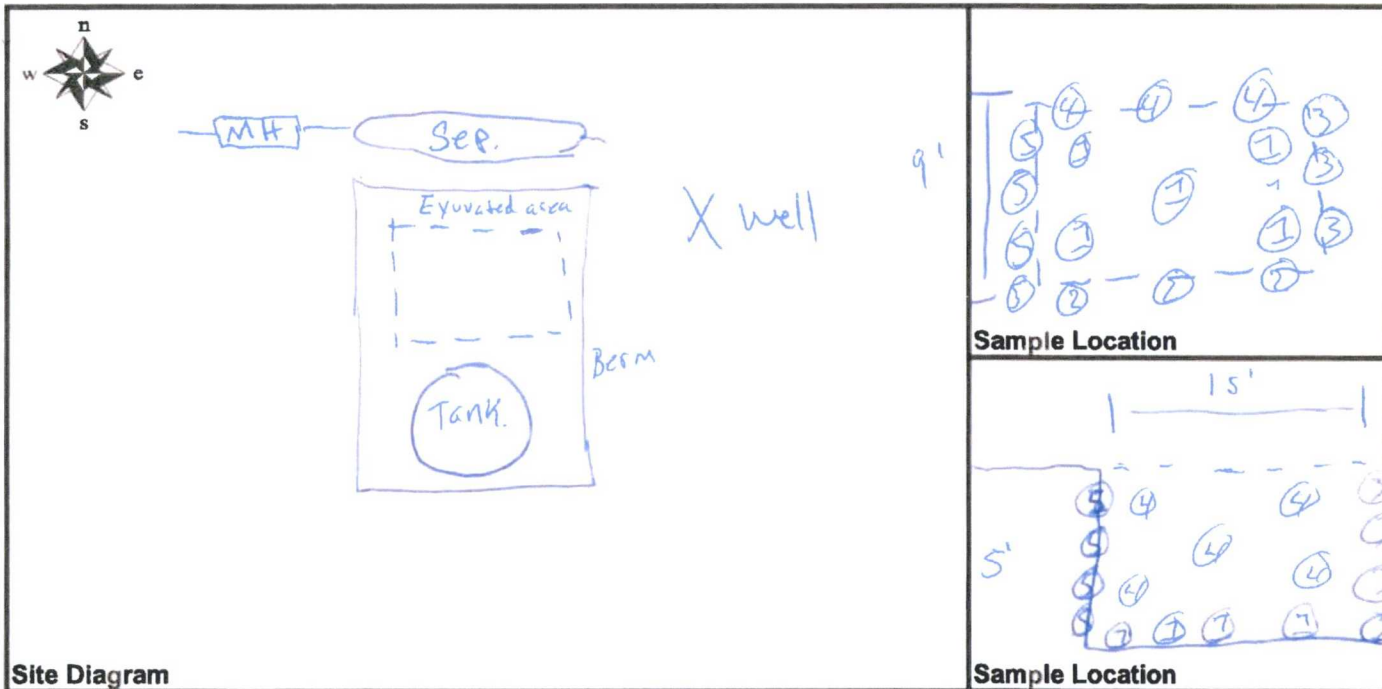
Company Enduring



ENDURING RESOURCES

ON-SITE FORM

Well Name Rincon 32 A. API # 30-039-22312
Section 16 Township 27N Range 06W County Rio Arriba State NM
Contractors On-Site L3L Time On-Site 10:45am Time Off-Site 12:00pm
Spill Amount _____ bbls Spilled (Oil/Produced Water/Other _____) Recovered 0
Land Use (Range / Residential / Tribe _____) Spill Area 15' x 9' x 5' deep



Site Diagram

Comments

Composite sample each well. 3 Bottom

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
11:20am	1	Bottom	Hard clay, little odor		8021, 8015, chloride
11:25am	2	East well	" "		" "
11:30am	3	West well	" "		" "
11:35am	4	North well	" "		" "
11:40am	5	South well	" "		" "

Name (Print)

Chad Smith

Date

10-9-18

Name (Signature)

[Signature]

Company

Enduring Resources, LLC

Rincon 32A Sample Results Table

Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides
STANDARD	51 feet - 100 feet to GW	NA	NA	NA ppm	NA ppm	1000 ppm	NA ppm	2500 ppm	10 ppm	NA ppm	NA ppm	NA ppm	50 ppm	10,000 ppm
BGT Closure	Composite under BGT	9/25/2018	10:15 AM	10900	< 20	10900	8170	19070.0	< 0.1	< 0.1	< 0.1	0.285	0.285	< 20
Spill Sample 0-6"	Sample around location of removed BGT	9/25/2018	10:20 AM	35.4	< 20	35.4	117	152.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 21
Grab Sample @ 3'	grab sample 3' below location of BGT	9/25/2018	10:30 AM	3320	41.1	3361	1550	4911.1	< 0.1	< 0.1	0.277	3.6	3.87	57
Bottom	excavation bottom @ 5' composite	10/9/2018	11:20 AM	83.2	0.445	83.65	37.8	121.4	< 0.0005	< 0.005	< 0.0005	0.339	0.339	73.9
East Wall	East wall of excavation composite	10/9/2018	11:25 AM	< 4.0	< 0.1	< 4.1	< 4.0	< 8.1	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.0075	27.4
West Wall	West wall of excavation composite	10/9/2018	11:30 AM	44.8	0.128	44.93	24.5	69.4	< 0.0005	< 0.005	< 0.0005	0.00171	0.00171	29.7
North Wall	North wall of excavation composite	10/9/2018	11:35 AM	646	0.585	646.6	243	889.6	< 0.0005	< 0.005	0.00058	0.00278	0.00336	44.8
South Wall	South wall of excavation composite	10/9/2018	11:40 AM	124	1.28	125.3	54.9	180.2	0.000735	< 0.005	0.00297	0.0233	0.027	13.8

CLOSURE SAMPLES



Wed 9/5/2018 6:27 AM

James McDaniel

Rincon Unit 32A BGT Leak

To 'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRD

Cc Antonio Lucero; Chad Snell; Kenny Dearen

Cory/Vanessa,

Please accept this email as the required notification of a BGT leak at the Rincon Unit 32A well site. The leak was discovered yesterday, around 10 AM. An unknown amount of produced water leaked inside the pit depression from an unseen hole in the pit tank. The well was shut in and the tank was emptied, stopping the release. The well API is 30-039-22312, and the well is located in Section 16P, Township 27N, Range 6W, Rio Arriba County, NM. Enduring will begin pit closure activities following the approval of the submitted closure plan for this site.

Can you approve the closure plan submitted by Chevron for this facility? Thank you!

James McDaniel

HSE Supervisor

Enduring Resources

CSP #30009

CHMM #15676

Office: 505-636-9731

Cell: 505-444-3004

jmcdaniel@enduringresources.com



From: Mitch Morris [<mailto:MMorris@enduringresources.com>]
Sent: Wednesday, October 3, 2018 10:30 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Foley, Brandon M. <bfoley@slo.state.nm.us>; James McDaniel <JMcDaniel@enduringresources.com>; Chad Snell <CSnell@enduringresources.com>; Jacob Ellis <JEllis@enduringresources.com>
Subject: Confirmation Soil Sampling, Rincon 32A Well Site

Vanessa,

Enduring Resources, LLC would like to conduct confirmation soil sampling at the Rincon 32A well site around 12:00 pm Tuesday, October 9th. We're hoping to "piggy-back" this effort on the BGT closure occurring the same morning at the Rincon 151 location. The state of New Mexico is the surface owner, and Mr. Foley has been copied on this email. Feel free to contact me if you have any questions.

Thanks,

Mitch Morris
Air Compliance Specialist
Enduring Resources
(505) 636-9748 office
(505) 634-8109 mobile
MMorris@enduringresources.com

30-039-22312

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator Union Oil Company of California Location: Unit Sec. 16 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced Rinocn 32A MV

Elevation 6541' Completion Date 7-18-81 Total Depth 345' Land Type* S

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

If Cement or Bentonite Plugs have been placed, show depths & amounts used

None

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 85' Deep Thickness unknown

Depths gas encountered: NA

Type & amount of coke breeze used: type unknown 3000 lbs

Depths anodes placed: 205' to 300'

Depths vent pipes placed: 330'

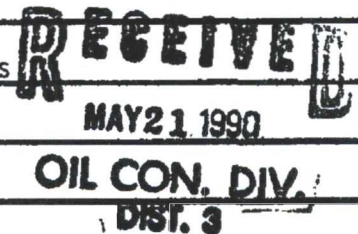
Vent pipe perforations: 280'

Remarks: El Paso Natural Gas Co. was the operator at the time this ground bed was installed

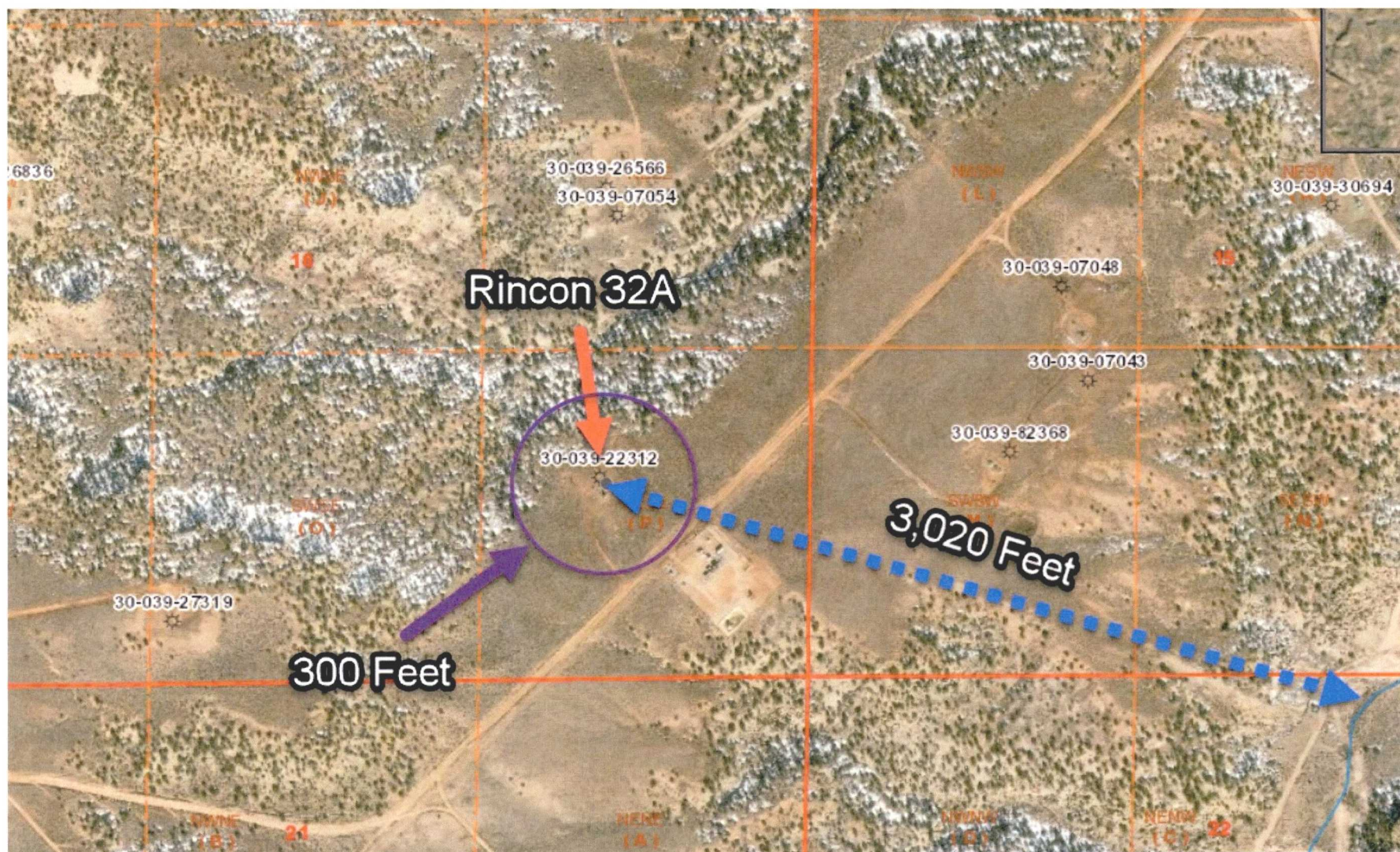
First ground bed installed at this location.

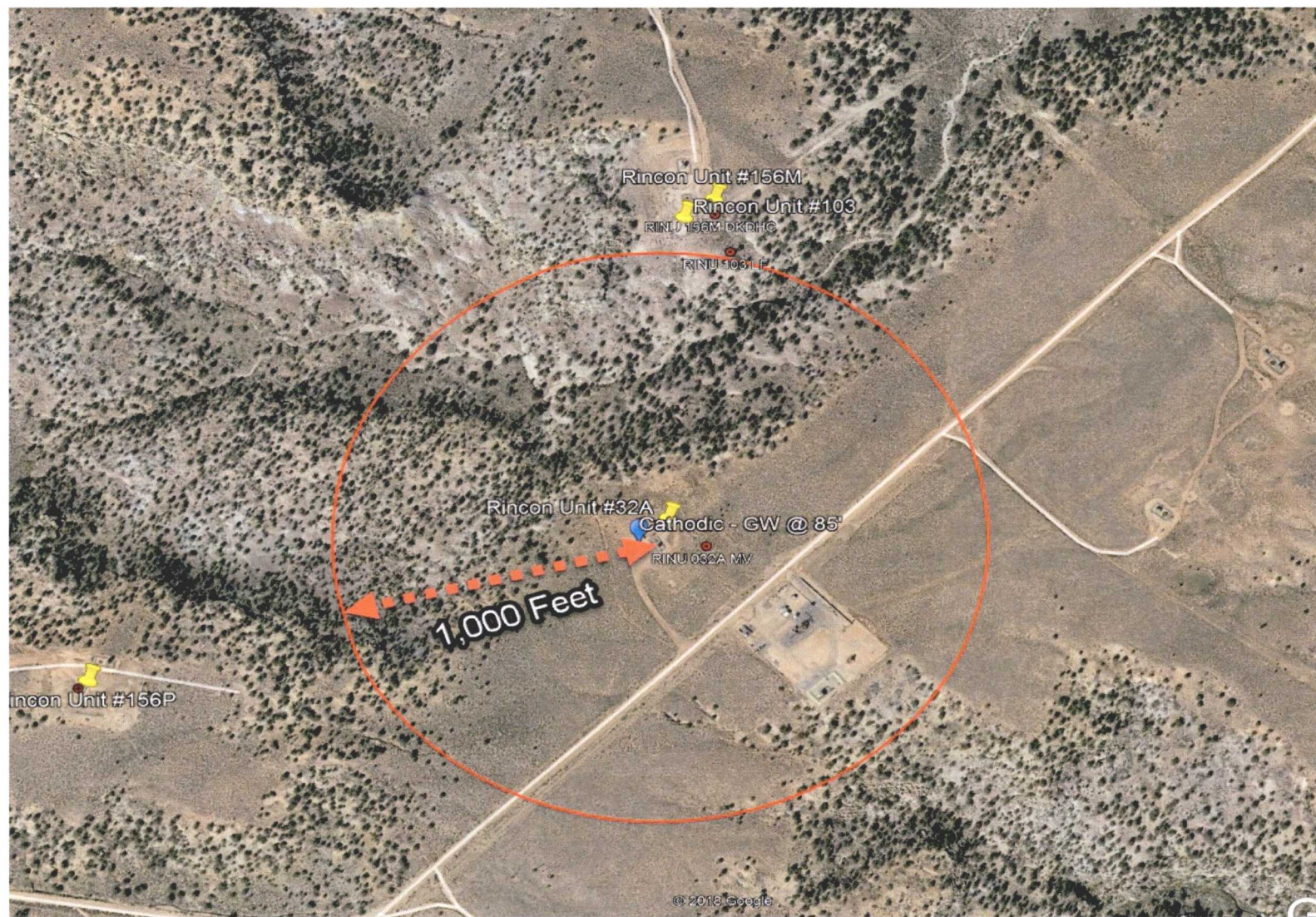
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.









National Flood Hazard Layer FIRMMette



36°34'23.70"N



USGS The National Map: Orthoimagery. Data refreshed October 2017.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone J
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes, Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/28/2018 at 10:35:17 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

36°33'54.80"N

107°27'39.95"W



Registered Mines in New Mexico

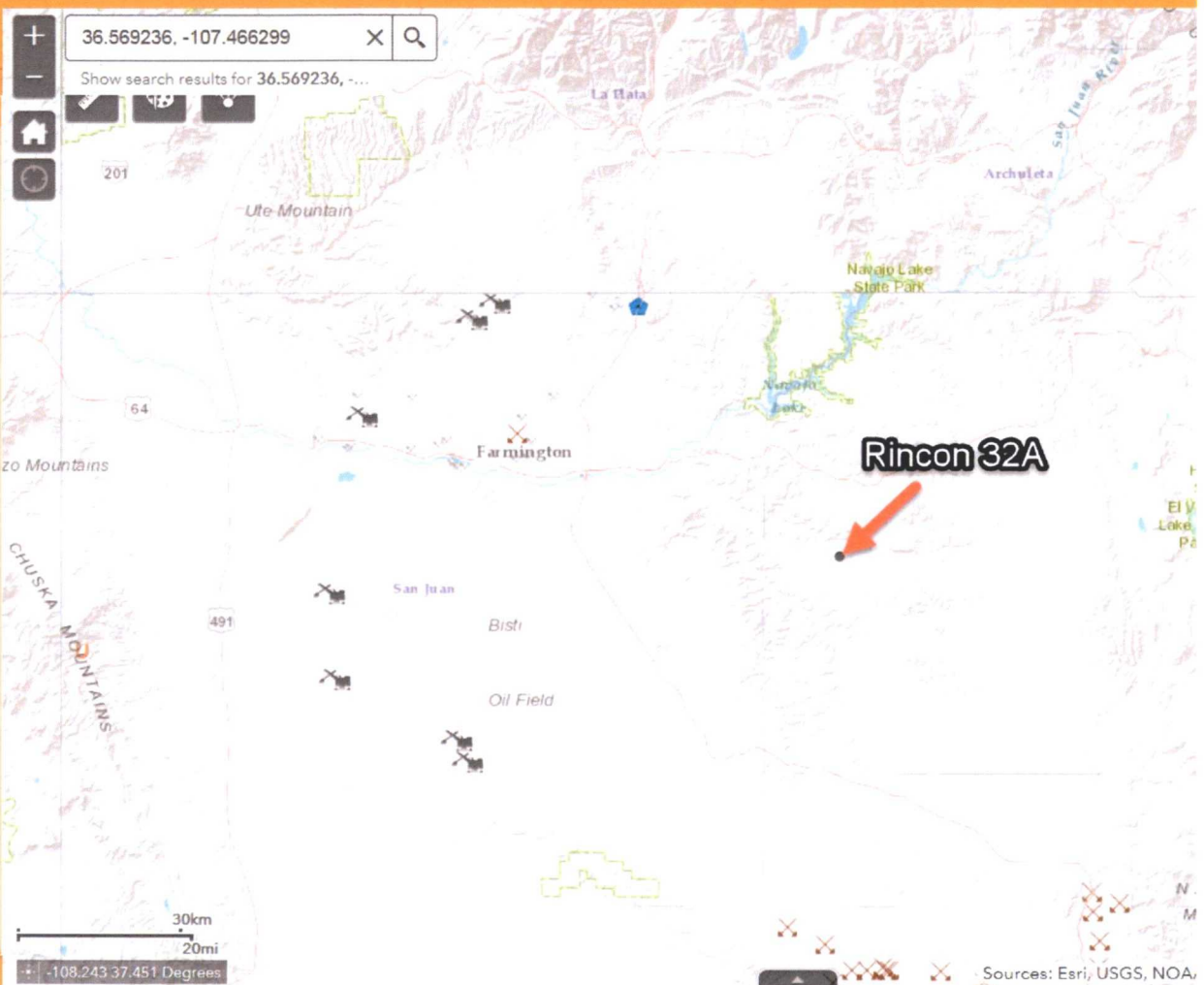
NM Mining and Minerals Division



Legend

Registered Mines

- Aggregate, Stone etc.
- Coal
- Gypsum
- Humate
- Industrial Minerals (Other)
- Metals
- Perlite
- Potash
- PM Pumice
- Red Dog, Scoria
- Salt
- U Uranium
- ZE Zeolites





National Wetlands Inventory

surface waters and wetlands

ABOUT

GET DATA

PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☐ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure

LEGEND



1:4,514
36.569 | -107.467

Esri, HERE, Garmin, IPC | USDA FSA | U.S. Fish and Wildlife Service, National Standards and Support Team, w...

POWERED BY
esri



Enduring Resources, LLC
Spill Closure Report
Rincon 32A
30-039-22312



PHOTO 1: Spill Area after excavation (N WALL)



PHOTO 2: Spill Area after Excavation (E WALL)



Enduring Resources, LLC
Spill Closure Report
Rincon 32A
30-039-22312



PHOTO 3: Spill Area after Excavation (S WALL)



PHOTO 4: Spill Area after Excavation (W WALL)



Enduring Resources, LLC
Spill Closure Report
Rincon 32A
30-039-22312

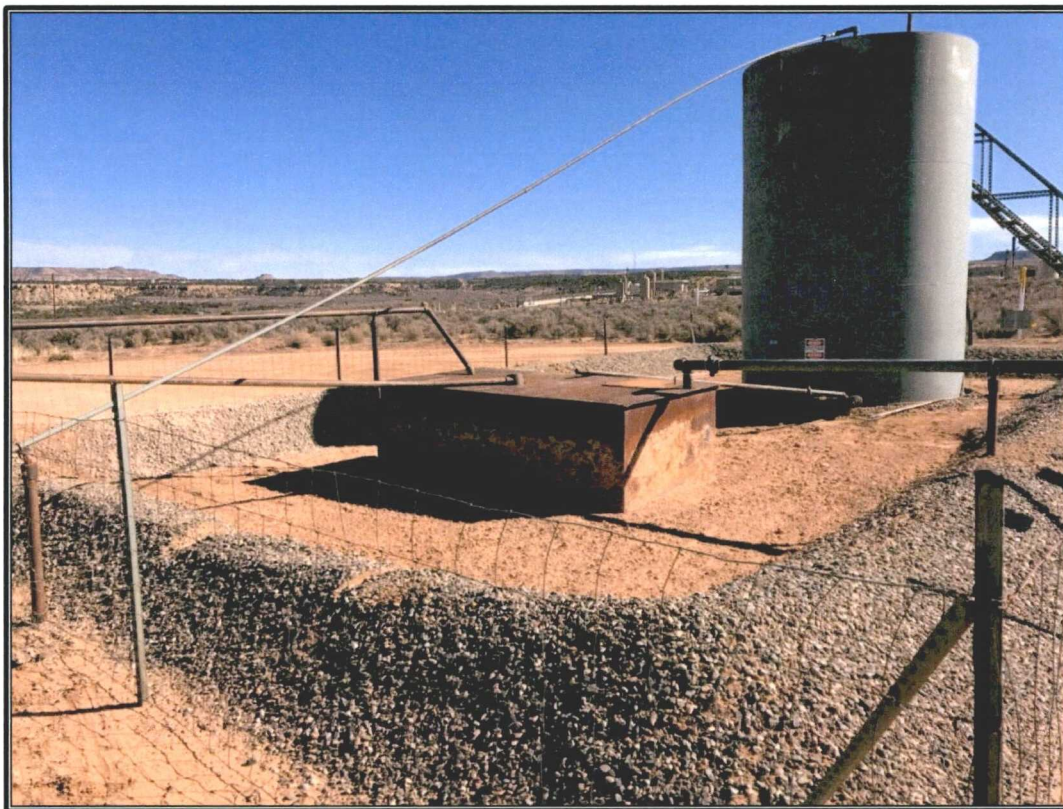


PHOTO 5: Spill Area after Backfill

Analytical Report

Report Summary

Client: Enduring Resources, LLC

Chain Of Custody Number:

Samples Received: 9/25/2018 3:24:00PM

Job Number: 17065-0017

Work Order: P809054

Project Name/Location: Rincon Unit 32A

Report Reviewed By:



Date: 9/27/18

Walter Hinchman, Laboratory Director



Date: 9/27/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Rincon Unit 32A
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
09/27/18 16:24

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Closure	P809054-01A	Soil	09/25/18	09/25/18	Glass Jar, 4 oz.
Spill Sample 0-6"	P809054-02A	Soil	09/25/18	09/25/18	Glass Jar, 4 oz.
Grab Sample @ 3'	P809054-03A	Soil	09/25/18	09/25/18	Glass Jar, 4 oz.

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Enduring Resources, LLC	Project Name:	Rincon Unit 32A	Reported: 09/27/18 16:24
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	James McDaniel	

BGT Closure
P809054-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
p,m-Xylene	285	200	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total Xylenes	285	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total BTEX	285	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %		50-150	1839011	09/25/18	09/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839011	09/25/18	09/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	10900	250	mg/kg	10	1839012	09/26/18	09/26/18	EPA 8015D	
Oil Range Organics (C28-C40+)	8170	500	mg/kg	10	1839012	09/26/18	09/26/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %		50-150	1839011	09/25/18	09/25/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	1839012	09/26/18	09/26/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.5	20.0	mg/kg	1	1839013	09/25/18	09/26/18	EPA 300.0/9056A	

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Enduring Resources, LLC	Project Name:	Rincon Unit 32A	Reported: 09/27/18 16:24
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	James McDaniel	

Spill Sample 0-6"
P809054-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1839011	09/25/18	09/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839011	09/25/18	09/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	35.4	25.0	mg/kg	1	1839012	09/26/18	09/26/18	EPA 8015D	
Oil Range Organics (C28-C40+)	117	50.0	mg/kg	1	1839012	09/26/18	09/26/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %		50-150	1839011	09/25/18	09/25/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.5 %		50-200	1839012	09/26/18	09/26/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839013	09/25/18	09/25/18	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Rincon Unit 32A Project Number: 17065-0017 Project Manager: James McDaniel	Reported: 09/27/18 16:24
---	--	------------------------------------

Grab Sample @ 3'
P809054-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Ethylbenzene	277	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
p,m-Xylene	2850	200	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
o-Xylene	745	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total Xylenes	3600	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total BTEX	3870	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %	50-150		1839011	09/25/18	09/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	41.1	20.0	mg/kg	1	1839011	09/25/18	09/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	3320	250	mg/kg	10	1839012	09/26/18	09/26/18	EPA 8015D	
Oil Range Organics (C28-C40+)	1550	500	mg/kg	10	1839012	09/26/18	09/26/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	50-150		1839011	09/25/18	09/25/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200		1839012	09/26/18	09/26/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	57.0	20.0	mg/kg	1	1839013	09/25/18	09/25/18	EPA 300.0/9056A	

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

Project Name: Rincon Unit 32A
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
09/27/18 16:24

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1839011 - Purge and Trap EPA 5030A

Blank (1839011-BLK1)

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8070		"	8000		101	50-150			

LCS (1839011-BS1)

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Benzene	5150	100	ug/kg	5000		103	70-130			
Toluene	5180	100	"	5000		104	70-130			
Ethylbenzene	5230	100	"	5000		105	70-130			
p,m-Xylene	10700	200	"	10000		107	70-130			
o-Xylene	5200	100	"	5000		104	70-130			
Total Xylenes	15900	100	"	15000		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8150		"	8000		102	50-150			

Matrix Spike (1839011-MS1)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Benzene	5060	100	ug/kg	5000	ND	101	54.3-133			
Toluene	5080	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5120	100	"	5000	ND	102	61.4-133			
p,m-Xylene	10500	200	"	10000	ND	105	63.3-131			
o-Xylene	5080	100	"	5000	ND	102	63.3-131			
Total Xylenes	15600	100	"	15000	ND	104	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8220		"	8000		103	50-150			

Matrix Spike Dup (1839011-MSD1)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Benzene	5340	100	ug/kg	5000	ND	107	54.3-133	5.41	20	
Toluene	5360	100	"	5000	ND	107	61.4-130	5.36	20	
Ethylbenzene	5390	100	"	5000	ND	108	61.4-133	5.18	20	
p,m-Xylene	11000	200	"	10000	ND	110	63.3-131	4.93	20	
o-Xylene	5330	100	"	5000	ND	107	63.3-131	4.77	20	
Total Xylenes	16400	100	"	15000	ND	109	63.3-131	4.88	20	
Surrogate: 4-Bromochlorobenzene-PID	8170		"	8000		102	50-150			

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

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

 Project Name: Rincon Unit 32A
 Project Number: 17065-0017
 Project Manager: James McDaniel

Reported:
 09/27/18 16:24

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1839011 - Purge and Trap EPA 5030A
Blank (1839011-BLK1)

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		"	8.00		98.0	50-150			

LCS (1839011-BS2)

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Gasoline Range Organics (C6-C10)	39.1	20.0	mg/kg	50.0		78.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		"	8.00		99.1	50-150			

Matrix Spike (1839011-MS2)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Gasoline Range Organics (C6-C10)	44.0	20.0	mg/kg	50.0	ND	88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		"	8.00		97.6	50-150			

Matrix Spike Dup (1839011-MSD2)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 0

Gasoline Range Organics (C6-C10)	48.1	20.0	mg/kg	50.0	ND	96.3	70-130	8.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.4	50-150			

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

 Project Name: Rincon Unit 32A
 Project Number: 17065-0017
 Project Manager: James McDaniel

Reported:
 09/27/18 16:24

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1839012 - DRO Extraction EPA 3570
Blank (1839012-BLK1)

Prepared: 09/25/18 | Analyzed: 09/26/18 |

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			

LCS (1839012-BS1)

Prepared: 09/25/18 | Analyzed: 09/26/18 |

Diesel Range Organics (C10-C28)	418	25.0	mg/kg	500		83.6	38-132			
Surrogate: n-Nonane	46.8		"	50.0		93.6	50-200			

Matrix Spike (1839012-MS1)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 |

Diesel Range Organics (C10-C28)	424	25.0	mg/kg	500	ND	84.7	38-132			
Surrogate: n-Nonane	46.3		"	50.0		92.5	50-200			

Matrix Spike Dup (1839012-MSD1)

Source: P809050-01

Prepared: 09/25/18 | Analyzed: 09/26/18 |

Diesel Range Organics (C10-C28)	423	25.0	mg/kg	500	ND	84.7	38-132	0.00141	20	
Surrogate: n-Nonane	46.4		"	50.0		92.9	50-200			

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

Project Name: Rincon Unit 32A
 Project Number: 17065-0017
 Project Manager: James McDaniel

Reported:
 09/27/18 16:24

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1839013 - Anion Extraction EPA 300.0/9056A

Blank (1839013-BLK1)

Prepared & Analyzed: 09/25/18 1

Chloride	ND	20.0	mg/kg
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LCS (1839013-BS1)

Prepared & Analyzed: 09/25/18 1

Chloride	256	20.0	mg/kg	250	102	90-110
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Matrix Spike (1839013-MS1)

Source: P809052-01

Prepared: 09/25/18 1 Analyzed: 09/26/18 1

Chloride	15600	200	mg/kg	250	15400	85.5	80-120
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Matrix Spike Dup (1839013-MSD1)

Source: P809052-01

Prepared: 09/25/18 1 Analyzed: 09/26/18 1

Chloride	15700	200	mg/kg	250	15400	118	80-120	0.519	20
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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: Rincon Unit 32A
Project Number: 17065-0017
Project Manager: James McDaniel

Reported:
09/27/18 16:24

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Client: <u>Enduring Resources</u>		Report Attention		Lab Use Only		TAT		EPA Program					
Project: <u>Rincon Unit 32A</u>		Report due by:		Lab WO# <u>P809054</u>		Job Number <u>17065-0017</u>		1D	3D	RCRA	CWA	SDWA	
Project Manager: <u>J. McDaniel</u>		Attention:											
Address: <u>200 Energy Court</u>		Address:								State			
City, State, Zip: <u>Farmington, NM 87401</u>		City, State, Zip:								NM	CO	UT	AZ
Phone: <u>505-444-3004</u>		Phone:											
Email: <u>jmcDaniel@enduringresources.com</u>		Email:											

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO	GRO/DRO	BTEX by	VOC by 8	Metals 6	Chloride	TPH 418							Remarks
10 ¹⁵	9/25/18	Soil	1/4oz	BGT Closure	1	X	X	X			X								RUSH
10 ²⁰	9/25/18	Soil	1/4oz	Spill Sample 0-6"	2	X	X	X			X								RUSH
10 ³⁰	9/25/18	Soil	1/4oz	Grab Sample @ 3'	3	X	X	X			X								RUSH

Additional Instructions:

RUSH - samples brought in out of cooler, but were cold to touch on 9.25.18

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>9/25/18</u>	Time <u>15:23</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>9/25/18</u>	Time <u>15:24</u>	Lab Use Only
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: Y / N <u>Y</u>
						T1 <u>7.1</u> T2 <u>10.2</u> T3 <u>8.4</u>
						AVG Temp °C <u>8.6</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

ANALYTICAL REPORT

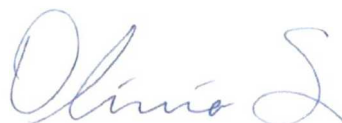
October 23, 2018

Enduring Resources

Sample Delivery Group: L1033402
Samples Received: 10/10/2018
Project Number:
Description: Rincon 32A

Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:












Olivia Studebaker
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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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BOTTOM L1033402-01 Solid

Collected by
Chad Snell

Collected date/time
10/09/18 11:20

Received date/time
10/10/18 08:45

Cp

Tc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1180172	1	10/15/18 09:25	10/15/18 09:30	KS
Wet Chemistry by Method 9056A	WG1182631	1	10/18/18 11:00	10/18/18 14:12	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1181020	1	10/10/18 16:25	10/16/18 11:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	1	10/19/18 15:06	10/20/18 12:33	DMW

Cn

EAST WELL L1033402-02 Solid

Collected by
Chad Snell

Collected date/time
10/09/18 11:25

Received date/time
10/10/18 08:45

Sr

Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1180172	1	10/15/18 09:25	10/15/18 09:30	KS
Wet Chemistry by Method 9056A	WG1180069	1	10/16/18 09:21	10/16/18 15:23	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1181020	1	10/10/18 16:25	10/16/18 12:13	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	1	10/19/18 15:06	10/20/18 12:08	DMW

Gl

Al

WEST WALL L1033402-03 Solid

Collected by
Chad Snell

Collected date/time
10/09/18 11:30

Received date/time
10/10/18 08:45

Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1180172	1	10/15/18 09:25	10/15/18 09:30	KS
Wet Chemistry by Method 9056A	WG1180069	1	10/16/18 09:21	10/16/18 15:37	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1181020	1	10/10/18 16:25	10/16/18 13:23	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	1	10/19/18 15:06	10/20/18 12:20	DMW

NORTH WALL L1033402-04 Solid

Collected by
Chad Snell

Collected date/time
10/09/18 11:35

Received date/time
10/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1180175	1	10/15/18 10:04	10/15/18 10:09	KS
Wet Chemistry by Method 9056A	WG1180069	1	10/16/18 09:21	10/16/18 15:51	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1181020	1	10/10/18 16:25	10/16/18 13:44	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	1	10/19/18 15:06	10/20/18 13:25	DMW
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	5	10/19/18 15:06	10/22/18 16:21	TJD

SOUTH WALL L1033402-05 Solid

Collected by
Chad Snell

Collected date/time
10/09/18 11:40

Received date/time
10/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1180175	1	10/15/18 10:04	10/15/18 10:09	KS
Wet Chemistry by Method 9056A	WG1180069	1	10/16/18 09:21	10/16/18 16:05	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1181020	1	10/10/18 16:25	10/16/18 14:06	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1183520	1	10/19/18 15:06	10/20/18 12:46	DMW



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

Olivia Studebaker
Project Manager

¹ Cp

² Tc

³ Ss

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.8		1	10/15/2018 09:30	WG1180172

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	73.9		10.0	1	10/18/2018 14:12	WG1182631

Ss

Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/16/2018 11:51	WG1181020
Toluene	ND		0.00500	1	10/16/2018 11:51	WG1181020
Ethylbenzene	ND		0.000500	1	10/16/2018 11:51	WG1181020
Total Xylene	0.00339	B	0.00150	1	10/16/2018 11:51	WG1181020
TPH (GC/FID) Low Fraction	0.445		0.100	1	10/16/2018 11:51	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.8		77.0-120		10/16/2018 11:51	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	95.3		72.0-128		10/16/2018 11:51	WG1181020

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	83.2		4.00	1	10/20/2018 12:33	WG1183520
C28-C40 Oil Range	37.8		4.00	1	10/20/2018 12:33	WG1183520
(S) <i>o</i> -Terphenyl	74.5		18.0-148		10/20/2018 12:33	WG1183520



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	10/15/2018 09:30	WG1180172

Cp

Tc

Ss

Cn

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	27.4	B	10.0	1	10/16/2018 15:23	WG1180069

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/16/2018 12:13	WG1181020
Toluene	ND		0.00500	1	10/16/2018 12:13	WG1181020
Ethylbenzene	ND		0.000500	1	10/16/2018 12:13	WG1181020
Total Xylene	ND		0.00150	1	10/16/2018 12:13	WG1181020
TPH (GC/FID) Low Fraction	ND		0.100	1	10/16/2018 12:13	WG1181020
(S) o,a,o-Trifluorotoluene(FID)	96.2		77.0-120		10/16/2018 12:13	WG1181020
(S) o,a,o-Trifluorotoluene(PID)	97.7		72.0-128		10/16/2018 12:13	WG1181020

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	10/20/2018 12:08	WG1183520
C28-C40 Oil Range	ND		4.00	1	10/20/2018 12:08	WG1183520
(S) o-Terphenyl	93.2		18.0-148		10/20/2018 12:08	WG1183520



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	10/15/2018 09:30	WG1180172

Cp

Tc

Ss

Cn

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	29.7	<u>B</u>	10.0	1	10/16/2018 15:37	WG1180069

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	10/16/2018 13:23	WG1181020
Toluene	ND		0.00500	1	10/16/2018 13:23	WG1181020
Ethylbenzene	ND		0.000500	1	10/16/2018 13:23	WG1181020
Total Xylene	0.00171	<u>B</u>	0.00150	1	10/16/2018 13:23	WG1181020
TPH (GC/FID) Low Fraction	0.128	<u>B</u>	0.100	1	10/16/2018 13:23	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.6		77.0-120		10/16/2018 13:23	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	97.0		72.0-128		10/16/2018 13:23	WG1181020

Qc

Gi

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	44.8		4.00	1	10/20/2018 12:20	WG1183520
C28-C40 Oil Range	24.5		4.00	1	10/20/2018 12:20	WG1183520
(S) <i>o</i> -Terphenyl	74.6		18.0-148		10/20/2018 12:20	WG1183520



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	10/15/2018 10:09	WG1180175

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	44.8	B	10.0	1	10/16/2018 15:51	WG1180069

Ss

Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/16/2018 13:44	WG1181020
Toluene	ND		0.00500	1	10/16/2018 13:44	WG1181020
Ethylbenzene	0.000580		0.000500	1	10/16/2018 13:44	WG1181020
Total Xylene	0.00278	B	0.00150	1	10/16/2018 13:44	WG1181020
TPH (GC/FID) Low Fraction	0.585		0.100	1	10/16/2018 13:44	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.0		77.0-120		10/16/2018 13:44	WG1181020
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	94.3		72.0-128		10/16/2018 13:44	WG1181020

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	646		20.0	5	10/22/2018 16:21	WG1183520
C28-C40 Oil Range	243		4.00	1	10/20/2018 13:25	WG1183520
(S) <i>o</i> -Terphenyl	106		18.0-148		10/22/2018 16:21	WG1183520
(S) <i>o</i> -Terphenyl	96.4		18.0-148		10/20/2018 13:25	WG1183520

SOUTH WALL

Collected date/time: 10/09/18 11:40

SAMPLE RESULTS - 05

L1033402

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	10/15/2018 10:09	WG1180175

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	13.8	B	10.0	1	10/16/2018 16:05	WG1180069

Ss

Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	0.000735		0.000500	1	10/16/2018 14:06	WG1181020
Toluene	ND		0.00500	1	10/16/2018 14:06	WG1181020
Ethylbenzene	0.00297		0.000500	1	10/16/2018 14:06	WG1181020
Total Xylene	0.0233		0.00150	1	10/16/2018 14:06	WG1181020
TPH (GC/FID) Low Fraction	1.28		0.100	1	10/16/2018 14:06	WG1181020
(S) o,a,a-Trifluorotoluene(FID)	93.9		77.0-120		10/16/2018 14:06	WG1181020
(S) o,a,a-Trifluorotoluene(PID)	96.6		72.0-128		10/16/2018 14:06	WG1181020

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	124		4.00	1	10/20/2018 12:46	WG1183520
C28-C40 Oil Range	54.9		4.00	1	10/20/2018 12:46	WG1183520
(S) o-Terphenyl	77.0		18.0-148		10/20/2018 12:46	WG1183520

WG1180172

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1033402-01,02,03](#)

Method Blank (MB)

(MB) R3350968-1 10/15/18 09:30

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

L1033402-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1033402-01 10/15/18 09:30 • (DUP) R3350968-3 10/15/18 09:30

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	84.8	84.9	1	0.172		10

Laboratory Control Sample (LCS)

(LCS) R3350968-2 10/15/18 09:30

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

Cp

Tc

Ss

Cn

Sr

Gl

Al

Sc

WG1180175

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1033402-04,05](#)

Method Blank (MB)

(MB) R3350978-1 10/15/18 10:09

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

L1033416-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1033416-01 10/15/18 10:09 • (DUP) R3350978-3 10/15/18 10:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.1	80.1	1	2.39		10

Laboratory Control Sample (LCS)

(LCS) R3350978-2 10/15/18 10:09

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

7 Gl

8 Al

9 Sc

WG1180069

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

[L1033402-02,03,04,05](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3351140-1 10/16/18 12:32

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	5.51	J	0.795	10.0

Cd

Tc

Ss

Cn

Sr

L1034562-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1034562-23 10/16/18 19:48 • (DUP) R3351140-7 10/16/18 20:30

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	9.04	7.20	1	22.7	J P1	15

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

(LCS) R3351140-2 10/16/18 12:45 • (LCSD) R3351140-3 10/16/18 12:59

	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	%	%	%			%	%
Chloride	200	194	183	97.2	91.6	80.0-120			5.91	15

Gl

Al

Sc

L1033402-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1033402-05 10/16/18 16:05 • (MS) R3351140-5 10/16/18 16:19 • (MSD) R3351140-6 10/16/18 16:33

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	13.8	422	453	81.7	87.8	1	80.0-120			6.98	15

WG1182631

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1033402-01](#)

Method Blank (MB)

(MB) R3352330-1 10/18/18 13:25

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	1.25	<u>J</u>	0.795	10.0

Cp

Tc

Ss

Cn

Sr

L1033402-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1033402-01 10/18/18 14:12 • (DUP) R3352330-4 10/18/18 14:20

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	73.9	73.8	1	0.137		15

L1035750-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1035750-17 10/18/18 18:57 • (DUP) R3352330-7 10/18/18 19:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1330	1380	5	3.48		15

GI

AI

Sc

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

(LCS) R3352330-2 10/18/18 13:34 • (LCSD) R3352330-3 10/18/18 13:43

	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	%	%	%			%	%
Chloride	200	206	193	103	96.7	80.0-120			6.23	15

L1035384-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1035384-02 10/18/18 14:29 • (MS) R3352330-5 10/18/18 14:38 • (MSD) R3352330-6 10/18/18 14:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	80.8	769	626	138	109	1	80.0-120	<u>J5</u>	<u>J3</u>	20.5	15

WG1181020

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

[L1033402-01,02,03,04,05](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3351023-5 10/16/18 08:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.00106	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0344	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	100			72.0-128

Cd

Tc

Ss

Cn

Sr

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

(LCS) R3351023-2 10/16/18 07:28 • (LCSD) R3351023-1 10/16/18 07:06

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	0.0473	0.0451	94.6	90.1	76.0-121			4.87	20
Toluene	0.0500	0.0488	0.0467	97.6	93.5	80.0-120			4.38	20
Ethylbenzene	0.0500	0.0477	0.0448	95.3	89.7	80.0-124			6.14	20
Total Xylene	0.150	0.149	0.141	99.6	94.3	37.0-160			5.50	20
(S) a,a,a-Trifluorotoluene(FID)				98.9	98.9	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				97.8	97.9	72.0-128				

Gl

Al

Sc

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

(LCS) R3351023-3 10/16/18 07:50 • (LCSD) R3351023-4 10/16/18 08:12

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	4.95	5.30	89.9	96.3	72.0-127			6.89	20
(S) a,a,a-Trifluorotoluene(FID)				102	102	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				107	108	72.0-128				

WG1183520

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

L1033402-01,02,03,04,05

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3352431-1 10/20/18 11:30

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	94.1			18.0-148

Cp

Tc

Ss

Cn

Sr

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

(LCS) R3352431-2 10/20/18 11:42 • (LCSD) R3352431-3 10/20/18 11:55

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	38.7	42.1	77.4	84.2	50.0-150			8.42	20
(S) o-Terphenyl				99.1	105	18.0-148				

GI

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.
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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Cp

Tc

Ss

Cn

Sr

Qc

Al

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-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

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

Our Locations

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



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Enduring Resources

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