

**116 Franklin Street  
Hillsville, Washington County, Virginia**

**Facility ID #1-025501**

**UNDERGROUND STORAGE TANK  
CLOSURE ASSESSMENT REPORT  
Former Maintenance Garage**

**Prepared For:  
Mr. Ricky Dowdy  
Carroll County Board of Supervisors  
605 Pine Street  
Hillsville, Virginia 24343**

**Prepared By:  
EnviroCheck of Virginia, Inc.  
375 Mountain Lane  
Tazewell, Virginia 24651**

**Project #EC-1015**

**EnviroCheck of Virginia, Inc.**  
120 Lovelane Street  
Bluefield, Virginia 24651  
276-322-1323

July 27, 2020

Ms. Courtney Brummit, *Compliance Specialist*  
**VDEQ-SWRO**  
355-A Deadmore Street  
Abingdon, VA 24210

**Re: UST Closure Assessment Report**  
**Former Maintenance Garage**  
**116 Franklin Street**  
**Hillsville, VA**  
**Facility ID #1-025501**

Dear Ms. Brummit:

EnviroCheck of Virginia, Inc. (EC) is pleased to present this UST Closure Assessment Report for the permanent closure-in-place with foam for one (1) 5,000-gallon underground storage tank and removal of product dispenser with associated piping located at the above-referenced facility. Included in this closure report are the Notification Form, photo-documentation, laboratory data sheets, and associated mapping.

Based upon tank closure assessment activities and confirmed by laboratory analysis, a **petroleum release has not occurred at the Site**. If you have any questions, please feel free to contact me at 276-322-1323.

**EnviroCheck of Virginia, Inc.**



Tina Ralosky  
*Project Manager*



Jacob L. Rhudy III  
*Operations Manager*

Cc: Mr. Ricky Dowdy, *Carroll County Board of Supervisors*

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## 1.0 INTRODUCTION

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On the behalf of Carroll County, EnviroCheck of Virginia (EC) has prepared this Closure Assessment Report to document the permanent closure-in-place of one (1) 5,000 gallon gasoline Underground Storage Tank (UST) system located in Hillsville, VA. The UST was used by Carroll County for refueling county owned vehicles. The UST was installed on July 01, 1990 with upgraded overfill protection between 2009 and 2011, according to the last Form 7530 filed with Virginia Department of Environmental Quality (VDEQ). The property owner, Carroll County Board of Supervisors, decided to close the UST in preparation of selling the property. This report documents the closure activities completed by EC at the Site to permanently close the UST system.

### 1.1 Site Location

The Site is physically located at 116 Franklin Street in Hillsville, Virginia. The Site location is depicted on the Hillsville, Virginia 7.5 minute United States Geological Survey (USGS) topographic map. An excerpt of that map is provided in **Appendix I**.

### 1.2 Site History

The property is classified as commercial and was used by Carroll County as a maintenance garage. This site has one (1) 5,000-gallon UST registered as use for storing gasoline. This UST replaced one (1) 2,000-gallon gasoline UST that was permanently closed in 1991. A release was noted and given a Pollution Complaint Number (PC#91-0142). Site Closure for that release was approved on October 27, 1997. Presently, the property is vacant but was used as a maintenance garage for Carroll County. The former fuel dispenser and associated piping were removed during UST removal activities. Due to proximity of a 6' water main, the current UST could not be removed from the subsurface. Therefore, upon approval of the Building Official for Hillsville, the UST was filled with foam and closed-in-place.

## 2.0 UST REMOVAL ACTIVITIES

Closure of the UST system was performed on July 13, 2020 by EC personnel. Following is a summary of the activities completed:

- Prior to excavation, Miss Utility of VA was contacted to mark all underground utilities at the site. A building permit was obtained from the City of Hillsville, See **Appendix II**. VDEQ was also notified of the scheduled removal but was not present during closure activities. Photodocumentation of site activities is provided in **Appendix III**.
- One (1) 5,000-gallon UST was identified at the site under the concrete pad located east of the building. EC removed approximately 4" of product from the UST and the product was used for filling vehicles.<sup>44</sup>
- Upon arrival at the site, a six (6) inch water main was located approximately 12" from the edge of the concrete pad over the UST. Due to the location of the utility line, it was determined to close the UST in place by filling it with foam.
- The product dispenser, vent line and associated piping was removed from the ground and recycled as scrap. A confirmation sample was collected under the dispenser at time of removal. No piping samples were collected due to the proximity of the tanks to the dispenser being approximately eight (8) feet.
- Due to not being able to remove the UST from the subsurface, EC personnel collected three (3) confirmation soil samples by a Geoprobe from around the tank basin at the approximate wall and floor depths.
- The UST was filled with foam by Tailored Chemicals from Hickory, NC. Upon completion of the foam filling, all manways were capped with concrete.
- A completed Notification for Underground Storage Tanks form is included as **Appendix V** to fulfill the permanent closure requirements.

## 3.0 LABORATORY ANALYSIS

EC collected four (4) confirmation soil samples from the UST basin and the former product dispenser. The site map in **Appendix I** depicts the current location of the UST filled in place, the former location of the product dispenser, as well as soil sample locations. The soil confirmation samples were collected via EPA Method 5035 using methanol preserved vial and sterile glass four-ounce soil jars. Soil samples were

immediately packed on ice and transported under chain-of-custody to Environmental Science Corporation (ESC) for the following analysis:

- Total Petroleum Hydrocarbons (TPH)-gasoline range organics (GRO) via Method 5035/8015C, and
- Benzene (B), Toluene (T), Ethylbenzene (E), and Total Xylenes (X) via Method 5035/8015C.

Laboratory analytical results are summarized below in Table 1. Laboratory Data Sheets with Chain-of-Custody documentation are provided in **Appendix V**.

**Table 1**  
**Confirmation Soil Analytical Results, mg/kg**  
**Former Carroll County Maintenance Garage**  
**Sampled July 13, 2020**

Sample ID	Depth (ft)	TPH GRO	B	T	E	X
D-1	2.5	ND	ND	0.0144	ND	ND
NW	6-8	ND	ND	ND	ND	ND
EW	6-8	ND	ND	ND	ND	ND
TF-1	13-15	ND	0.016	0.0169	ND	ND
<b>VDEQ Action Levels</b>		<b>100</b>	<b>1.2*</b>	<b>3.0*</b>	<b>5.8*</b>	<b>NA*</b>

**Legend:**

TPH – Total Petroleum Hydrocarbons  
GRO – Gasoline Range Organics  
D-1 – Dispenser Sample 1  
EW – East Wall of Tank Basin  
NA – None Applicable

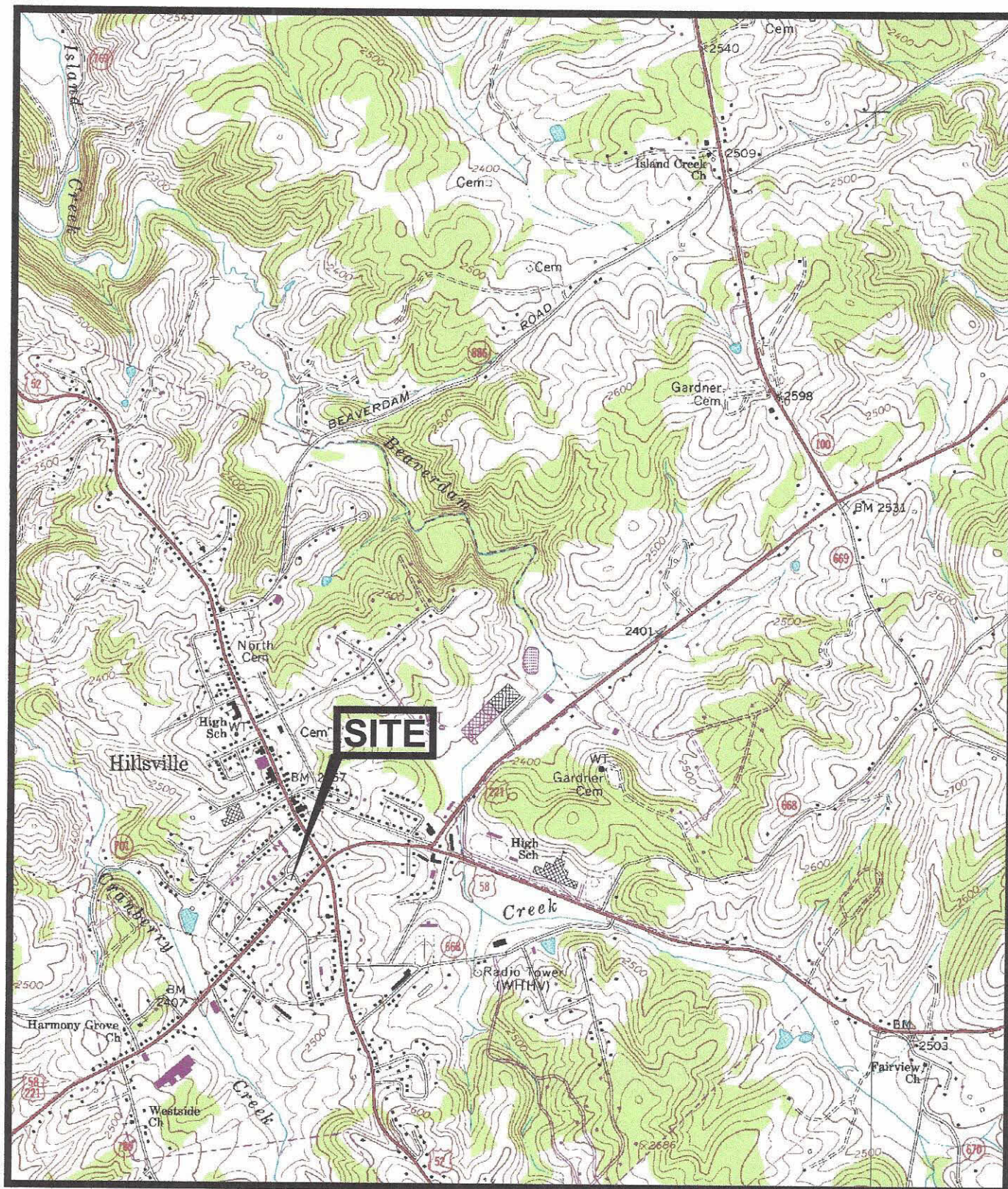
BTEX – Benzene, Toluene, Ethylbenzene and Total Xylenes  
ND – Not detected at the Reporting Limit (or MDL where applicable)  
NW – North Wall of Tank Basin  
TF-1 – Sample of Floor of Tank Basin  
\* – EPA Region 3 Screening Levels

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

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EnviroCheck of Virginia, Inc. recommends no further action based on the above soil confirmation samples analytical results. No confirmation soil sample exceeded VDEQ's soil-saturation limits for TPH-GRO, but BTEX constituents were identified in low concentrations. These concentrations did not exceed EPA's Region 3 Regional Screening Levels (RSLs) for BTEX.

APPENDIX I  
*Maps*



**FORMER CARROLL COUNTY MAINTENANCE GARAGE - CARROLL COUNTY, VIRGINIA**  
**SOUTHERN PORTION OF USGS 7.5' HILLSVILLE, VA QUADRANGLE**

2,000' 0 2,000'

SCALE 1:24,000

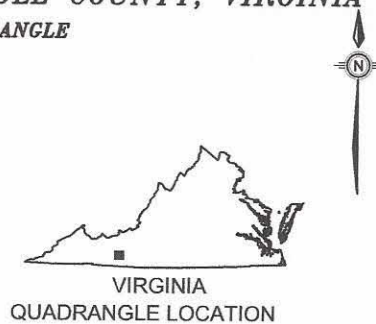
VICINITY MAP

MAP 1



Envirocheck of Virginia, Inc.

"Energy, Environmental Consulting"





APPENDIX II  
*Building Permit*

# Building Permit Application

## Town of Hillsville

410 N. Main Street  
Hillsville, VA 24343  
Phone: (276) 728-2128 ext. 307

PO Box 545  
Fax: (276)-728-9371  
Email: [engineer@townofhillsville.com](mailto:engineer@townofhillsville.com)

Date: 7/2/20

Permit Fee: \$ \_\_\_\_\_

### Property Owner/s Information

Building Permit #: \_\_\_\_\_

Name : CARROLL COUNTY

Mailing Address : 605 PINE STREET

: HILLVILLE, VA 24343

Phone : 276-730-3281

Who Will Be Permit Holder: CARROLL COUNTY c/o ENVIROCHECK VA, INC

Name of Person to Contact Regarding Questions: RICK DOWDY

Daytime Phone: 276-730-3281 Cell Phone: 276-237-6441

### Contractor / Agent Information

Contractor or Agent : ENVIROCHECK OF VA, INC

Mailing Address : 375 MOUNTAIN LANE

: TAREWELL, VA 24651

Phone : 276-322-1323

VA License # : 2705118343

Class A, B, or C : \_\_\_\_\_

A = Unlimited

B = Up to \$120,000

C = Up to \$10,000

### Mechanic's Lien Information

For one or two family dwelling projects, please provide the mechanic's lien agent as defined in Section 43 of the Code of Virginia. If the designation of a mechanic's lien agent is not so requested by the applicant, please indicate "None Designated".

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

\_\_\_\_\_

AFFIDAVIT OF PERMIT APPLICANT  
Town of Hillsville

APPLICANT NAME ENTROCK OF VA, INC  
PROPERTY ADDRESS 115 FARMER STREET  
HILLSVILLE, VA  
APPLICANTS DAYTIME TELEPHONE NUMBER 276-322-1323

**THIS DOCUMENT CONTAINS IMPORTANT INFORMATION REGARDING CONTRACTORS**

LICENSURE LAW AS DEFINED IN TITLE 54.1 CHAPTER 11 CODE OF VIRGINIA. PLEASE READ CAREFULLY BEFORE SIGNING.

NOTICE TO PERMIT APPLICANT

TITLE 54.1-1111. Prerequisites to obtaining building, etc., permit. Any person applying to the code official or any other authority of a county, city, or town in this Commonwealth, charged with the duty of issuing building or other permits for the construction of any building, highway, sewer, or structure, or any removal, grading or improvement shall furnish prior to the issuance of the permit, either (i) satisfactory proof to such code official or authority that he is duly licensed or certified under the terms of this chapter to carry out or superintend the same, or (ii) file a written statement, supported by affidavit, that he is not subject to licensure or certification as a contractor or subcontractor pursuant to this chapter. The applicant shall also furnish satisfactory proof that the taxes or license fees required by any county, city, or town have been paid so as to be qualified to bid upon or contract for the work for which the permit has been applied.

TITLE 54.1-1115. Prohibited acts. - B. Any person who undertakes work without a valid license when a license is required by this chapter may be fined an amount not to exceed \$200 per day for each day that such person is in violation, in addition to the authorized penalties for the commission of a Class 1 misdemeanor.

I hereby affirm that I have read Title 54.1-1111 and Title 54.1-1115.B Code of Virginia and fully understand the contents thereof; that I am not subject to licensure as a contractor or subcontractor. I further affirm that I will be solely responsible for all construction on the described property allowed by the permit(s) hereby issued. If the work is performed by any other person or firm employed by me, that person or firm must comply with state and local contractor licensing laws.

[Signature]  
Signature of Permit Applicant

7/2/20  
Date

COMMONWEALTH OF VIRGINIA  
Town of Hillsville, to wit:

I, the undersigned for the aforesaid jurisdiction, do hereby certify that

Leslie Hutchinson Rhody, permit applicant for the property described in the affidavit, whose name is signed to the foregoing Affidavit, has appeared before me on this 2 day of July 2020 and acknowledge the same as true and correct.

[Signature]  
Witness



## Project Information

Street/911 Address : 115 FRANKLIN STREET

Map #: \_\_\_\_\_ Zoning: \_\_\_\_\_

(Detail Directors : OLD MAINTENANCE GARAGE  
to Property)

Please provide a brief description of the work to be performed. CLOSE IN PLACE  
UST THAT CANNOT BE REMOVED DUE TO WATER MAIN  
DEP APPROVED

### **Project Size:**

House or Addition 1<sup>st</sup> Floor: Area: NA SF Garage/Utility Area: \_\_\_\_\_ SF  
House or Addition 2<sup>nd</sup> Floor: Area: \_\_\_\_\_ SF Deck/Porch: Area: \_\_\_\_\_ SF  
Overall Height of House: Ht: \_\_\_\_\_ Basement: Area: \_\_\_\_\_ SF  
Heat Source: \_\_\_\_\_ # of Bathrooms: \_\_\_\_\_  
Please Check One: ☐ Public Sewer ☐ Septic System (Must have Health Permit)  
Commercial/ Industrial: L: \_\_\_\_\_ W: \_\_\_\_\_ Ht.: \_\_\_\_\_ Total Area: \_\_\_\_\_ SF

Estimated Total Project Cost less Mechanical Cost: \$ \_\_\_\_\_

Mechanical (Equipment & Labor Costs) \$ \_\_\_\_\_

### **Type of Permit Applying For:**

#### Residential:

- ☐ Residential Construction or Remodeling (excludes decks, carports, or garages)
- ☐ Residential Deck, Carport or Garage
- ☐ Setup of Modular or Mobile Home (not replacing existing unit)
- ☐ Replace Existing Mobile Home (Has to be 1981 or newer)
- ☐ Swimming Pool
- ☐ Utility, Accessory Building (over 200 SF)

#### Commercial / Industrial:

- ☐ Commercial / Industrial Construction or Renovation
- ☐ Commercial Roof Replacement

#### Miscellaneous: (Could be Residential, Commercial or Industrial)

- ☐ Mechanical (Heat. & Air Conditioning – Must have the cost of this item separate from Total Project Cost to figure the fee.)
- ☐ Plumbing (all plumbing issues including water & sewer lines)
- ☐ Install Special Electrical Circuits (i.e. Temporary, W/D, HVAC, etc.)
- ☐ Electrical Service < 300 amps ☐ Electrical Service > 300 amps
- ☐ Moving House ☐ Demolition of Building
- ☒ Underground Storage Tanks ☐ Chimney Flue
- ☐ Install Sign ☐ Other

**For Storage buildings, Decks to existing one and two family dwellings and swimming pools.**

**For new construction and additions two (2) sets of plans are required.**

**All new construction needs to be approved by the Building Official before permits will be issued.**

**Please allow 2 days for processing of minor permits for decks, electrical, HVAC, plumbing, etc.**

**Please allow 5 days for processing of permits requiring reviews by this Office and 6 weeks for plan reviews by the Virginia State Fire Marshall's Office.**

**"Call Before You Dig"**

**Call Miss Utility @ 811 (a toll free number) at least 72 hours before you dig to locate any possible utility lines on your property.**

**Should you have any questions, please do not hesitate to call, email or come by our office located at 410 N. Main Street in Hillsville.**

## Project Requirements

- Include two sets of detail drawings, footers, floor trusses, roof trusses and wall construction for new structures or additions.
- The Town does not check to assure construction conforms to Deeded Restrictive Covenants placed upon the property. This is the responsibility of permit holder.
- All projects must conform to the Virginia Uniform Statewide Building Code 2015 Edition, the International Residential Code, and the International Building Code 2015.
- Any Land disturbance over 10,000 SF (about ¼ acre) requires application for Land-Disturbing Permit or an Erosion & Sediment Plan for approval from Carroll County Erosion & Sediment Control Department (276-730-3117).
- Any work including curbs, sidewalks, driveways, roads, etc. must be performed to VDOT specifications and regulations. VDOT can be reached at 1-800-367-7623.
- All subcontractors must be licensed by the State of Virginia if their total labor and material cost exceeds \$1,000. The failure of a contractor to have the appropriate licensing may result in delays and fines until all licensing requirements are met.
- You must have a 911 address assigned to the property prior to beginning construction. You can contact the 911 Coordinator at (800) 615-6911 to have address assigned.
- Building permits will become null and void if activity ceases on a project for more than six months. An extension may be granted if requested in writing prior to expiration.
- You must call (276) 728-2128 ext. 307 to schedule inspections. Inspections will be scheduled within two business days. The following is the minimum required inspections.
- One set of Approved drawings on project at all times.

1. Footing excavations & reinforcement material for concrete footings prior to placement of concrete.
2. Foundation systems inspections.
3. Inspection of preparatory work prior to placement of concrete.
4. Structural members and fasteners prior to concealment.
5. Electrical, mechanical, and plumbing materials, equipment and systems prior to concealment.
6. Energy conservation material prior to concealment.
7. Final inspection.

**Subcontractors**

Please list any subcontractors that will be performing work on this project.

<u>Trade</u>	<u>Subcontractor's Name</u>	<u>License #</u>
Grading:	<u>NONE</u>	
Concrete:		
Masonry:		
Framing:		
Drywall:		
Insulation:		
Painting:		
Roofing:		
Siding:		
Electrical:		
Plumbing:		
HVAC:		
Gas Fitting:		
Sprinkler:		
Other:		
Other:		

# COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

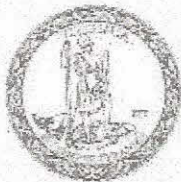
9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON  
11-30-2021

NUMBER  
2705118343

BOARD FOR CONTRACTORS  
CLASS A CONTRACTOR  
\*CLASSIFICATIONS\* EMW ENV



ENVIROCHECK OF VIRGINIA INC  
375 MOUNTAIN LN  
TAZEWELL, VA 24651



*Wally Pross-Volkmann*  
Wally Pross-Volkmann, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

**DPOR** COMMONWEALTH of VIRGINIA  
Department of Professional and Occupational Regulation

CLASS A BOARD FOR CONTRACTORS  
CONTRACTOR

\*CLASSIFICATIONS\* EMW ENV

NUMBER: 2705118343 EXPIRES: 11-30-2021

ENVIROCHECK OF VIRGINIA INC  
375 MOUNTAIN LN  
TAZEWELL, VA 24651



(FOLD)

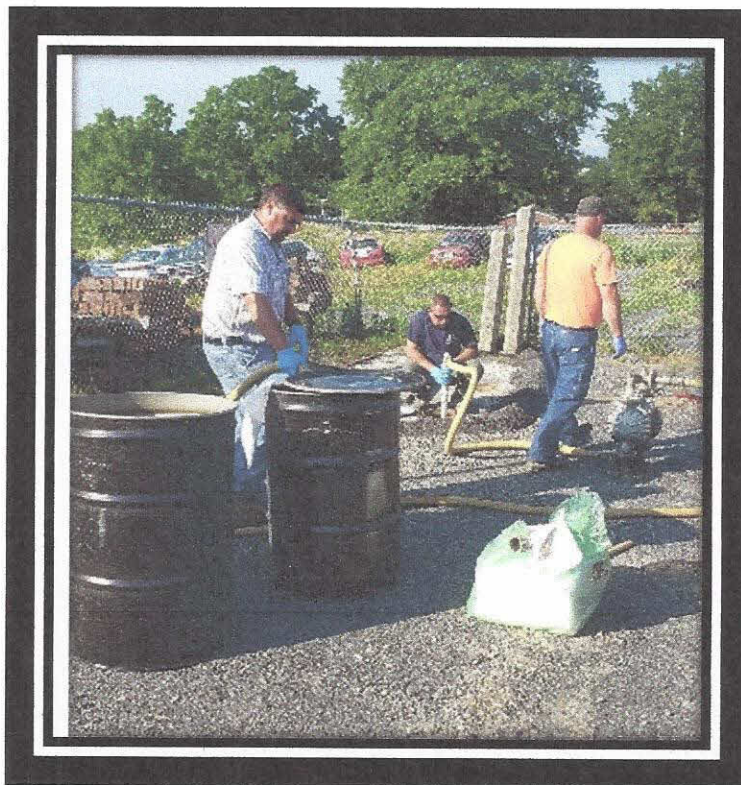
Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)

APPENDIX III  
*Photodocumentation*



**Photo 1: Overview of Site**



**Photo 2: Product Removal from UST**



**Photo 3: Removal of Product Dispenser**



**Photo 4: Water Line proximity to Tank Basin**



Photo 5: Filling UST with Foam



Photo 6: Filling UST opening with concrete

**APPENDIX IV**  
*Notification Form*

# Notification for Underground Storage Tanks (USTs)



## STATE USE ONLY

Virginia DEQ Water Form 7530-3

(See last page for mailing instructions)

(1/18)

ID Number

Date Received

Date Entered

Entered By

Comments

### Check all that apply:

### PART I: PURPOSE OF NOTIFICATION

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> New (not previously registered) facility      | <input type="checkbox"/> Temporary closure                              | <input type="checkbox"/> New contact             |
| <input type="checkbox"/> New tank(s) at previously registered facility | <input checked="" type="checkbox"/> Tank removal or closure in ground   | <input type="checkbox"/> New owner               |
| <input type="checkbox"/> Change in tanks (e.g., upgrade)               | <input checked="" type="checkbox"/> Piping removal or closure in ground | <input type="checkbox"/> Change in owner address |
| <input type="checkbox"/> Change in piping (e.g., upgrade)              | <input type="checkbox"/> Change in service/ tank contents               | <input type="checkbox"/> Other (specify):        |

### PART II: OWNERSHIP OF TANKS

### PART III: LOCATION OF TANKS

A. Owner Name  
Carroll County Board of Supervisors

A. Facility Name  
Carroll County Garage

B. Owner Address  
605-1 Pine Street

B. Facility Street Address (P.O. Box not acceptable)  
116 Franklin Street

C. City, State, Zip  
Hillsville, VA 24343

C. City, Zip  
Hillsville, 24343

D. County or Municipality  
Carroll County

D. Contact Person Name and Title  
Ricky Dowdy, Director of Maintenance

E. Facility Contact Person Name & Title  
Rick Dowdy

F. Facility Phone Number  
( ) None

E. Phone Number  
(276 ) 733-6386

F. Fax Number  
(276 ) 730-4000

G. Facility Contact Phone Number  
(276 ) 733-6386

H. Facility Contact Fax Number  
(276 ) 730-4000

G. E-mail Address  
ricky.dowdy@carrollcountyva.gov

I. Facility Contact E-mail Address  
ricky.dowdy@carrollcountyva.gov

H. Name of Previous Owner (if applicable)  
Carroll County Public Schools

J. Previous Name of Facility (if applicable)  
Carroll County Bus Garage

### PART IV: TYPE OF OWNER

### PART V: TYPE OF FACILITY

- |  |                                     |  |   |  |                                    |
|--|-------------------------------------|--|---|--|------------------------------------|
| <input type="checkbox"/> Federal government          | <input type="checkbox"/> Commercial | <input type="checkbox"/> Retail gas station          | <input type="checkbox"/> Federal non-military | <input type="checkbox"/> Commercial (non-resale) | <input type="checkbox"/> Residence |
| <input type="checkbox"/> State government            | <input type="checkbox"/> Private    | <input type="checkbox"/> Petroleum distributor       | <input type="checkbox"/> Federal military     | <input type="checkbox"/> Industrial              | <input type="checkbox"/> Farm      |
| <input checked="" type="checkbox"/> Local government | <input type="checkbox"/> Lender     | <input checked="" type="checkbox"/> Local government | <input type="checkbox"/> State government     | <input type="checkbox"/> Other _____             |                                    |

### PART VI: FINANCIAL RESPONSIBILITY

The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> Self Insurance | <input checked="" type="checkbox"/> Insurance | <input type="checkbox"/> Letter of Credit | <input type="checkbox"/> Other (specify): |
| <input type="checkbox"/> Guarantee      | <input type="checkbox"/> Surety Bond          | <input type="checkbox"/> Trust Fund       |   |

### PART VII: OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 VAC 25-580-10 et seq. and Federal Regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner or that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.

Ricky Dowdy, Director of Maintenance  
Name and Title (Type or Print)

*Ricky Dowdy*  
Signature

7/27/20  
Date

### PART VIII: INSTALLER CERTIFICATION

I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.

\_\_\_\_\_  
Name and Title (Type or Print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Telephone Number

**PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES** Check all that apply

Owner Tank Identification Number	1									
DEQ Tank Identification Number	1									
Tank Status	<input type="checkbox"/> New Tank <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Closure		<input type="checkbox"/> New Tank <input type="checkbox"/> Amendment <input type="checkbox"/> Closure		<input type="checkbox"/> New Tank <input type="checkbox"/> Amendment <input type="checkbox"/> Closure		<input type="checkbox"/> New Tank <input type="checkbox"/> Amendment <input type="checkbox"/> Closure		<input type="checkbox"/> New Tank <input type="checkbox"/> Amendment <input type="checkbox"/> Closure	
Date of Tank Installation (MM/DD/YYYY)	07/01/1990									
Date of Pipe Installation (MM/DD/YYYY)	07/01/1990									
Date of Amendment (MM/DD/YYYY)	07/01/2020									
Tank Capacity (Gallons) (Compartments of a compartment tank are considered to be separate tanks and should be registered and treated as such.)	5000									
<b>Material of Construction</b> (✓ all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyflexible		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Coated and Cathodically Protected/sti-P3®	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Composite (Steel Clad with Fiberglass)/ACT-100®/ACT-100U®	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Polyethylene Tank Jacket	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Lined Interior	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Impressed Current System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt Coated or Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected Steel		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Copper		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Excavation Liner	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Concrete	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Field Constructed	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Fuel System		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other (specify)										
Has tank/piping been repaired?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metal Piping Flex Connectors Installed		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Metal Flex Connectors Isolated/Booted		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Metal Flex Connectors Cathodic Protected		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
<b>Piping Type</b>	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Safe Suction (No Check Valve at Tank)		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
U.S. Suction (Check Valve at Tank)		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Pressure		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Gravity Fed		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
<b>Spill Containment &amp; Overfill Prevention</b>	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Spill Containment/Bucket	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Overfill Automatic Shutoff	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Overfill Alarm	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Overfill Ball Float Valve	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other (specify)										

# **PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES (continued)**

Release Detection		Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Manual Tank Gauging		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tightness Testing		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inventory Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Tank Gauging		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vapor Monitoring		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater Monitoring		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial Monitoring Double Walled		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial Monitoring Secondary Containment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Line Leak Detectors		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Statistical Inventory Reconciliation		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)											
<b>Substance stored</b>											
Gasoline (Regular)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (Mid-Grade)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (Premium)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel (On Road)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel (Off Road)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel (Low Sulfur)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel (Ultra Low Sulfur)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene (Clear)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene (Dyed)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating Oil		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Oil #2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Oil		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jet Fuel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel (Biodiesel)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Substance (specify below)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)											
Tank Used Solely to Generate Emergency Power		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **PART X: TANK CLOSURE, REMOVAL OR CHANGE IN SERVICE**

Tank and Piping Status	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Removal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closed In Ground	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filled with Inert Material (Required for Closure in Ground)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description of Inert Material	Insulation Foam									
Temporarily Closed Tank Empty (1" or less of product remaining in tank)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Closed Tank Not Empty (More than 1" of product remaining in tank)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change in Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Date Last Used (MM/DD/YYYY)</b>	06/30/2020									
<b>Date Closed (MM/DD/YYYY)</b>	07/01/2020									
<b>Closure Assessment Completed</b> (Please submit site map, soil sampling results, chain of custody for all samples, copy of building permit, and disposal manifest with this form).	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No
<b>Evidence of a Leak Detected</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No
<b>Comments:</b>										

APPENDIX V  
*Laboratory Analyses*

# ANALYTICAL REPORT

July 13, 2020

## EnviroCheck of Va., Inc

Sample Delivery Group: L1236065  
Samples Received: 07/02/2020  
Project Number:  
Description: hillsville Maintance Garage

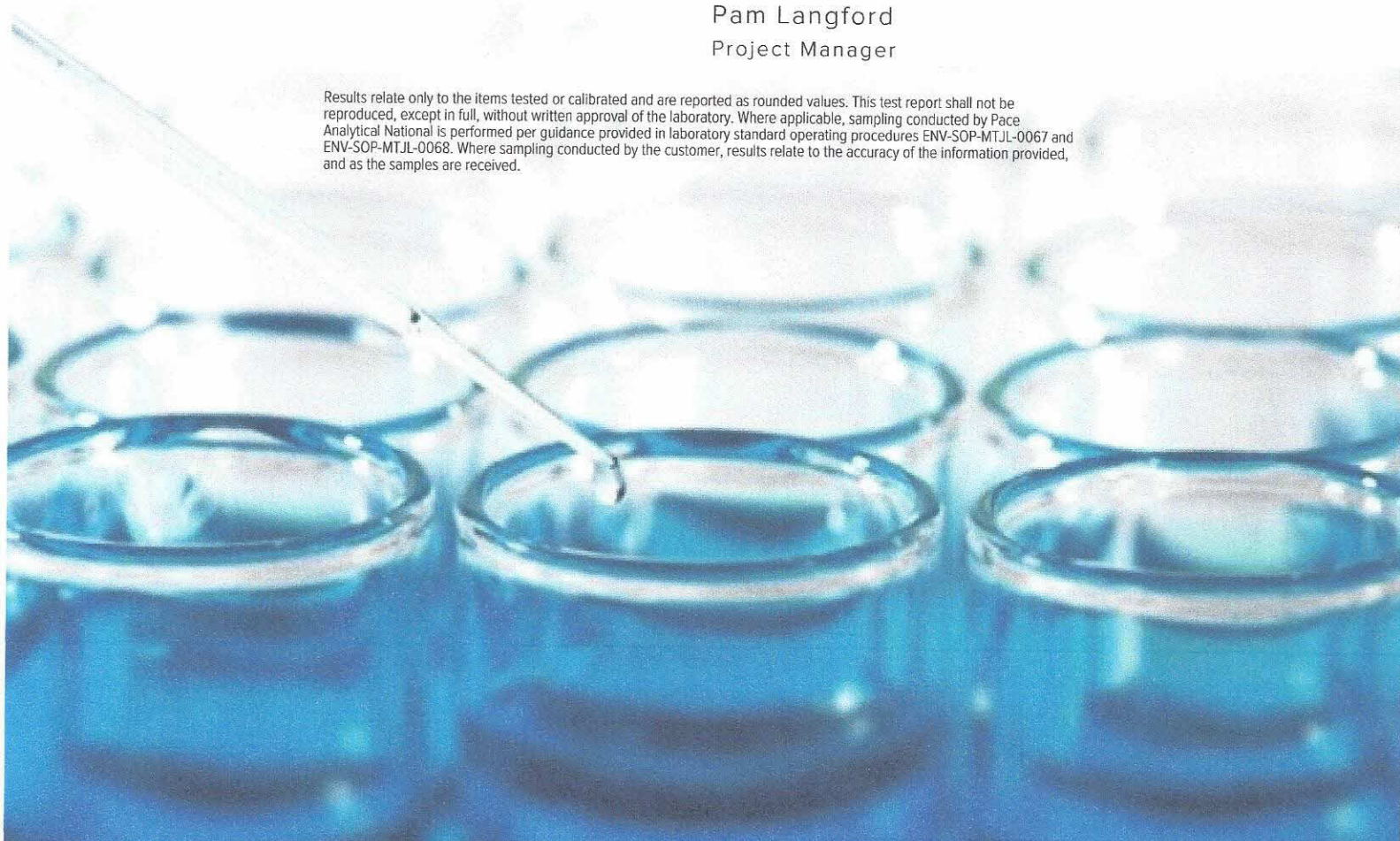
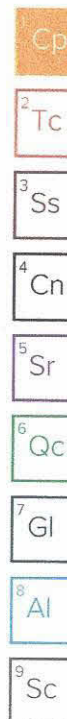
Report To: Tina Ralosky  
375 Mountain Lane  
Tazewell, VA 24651

Entire Report Reviewed By:



Pam Langford  
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 Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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ONE LAB. NATIONWIDE.



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## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



## D-1 L1236065-01 Solid

Collected by	Collected date/time	Received date/time
Tina Ralosky	07/01/20 10:30	07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1505933	1	07/08/20 23:29	07/08/20 23:47	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1507239	25	07/01/20 10:30	07/10/20 18:34	ADM	Mt. Juliet, TN

## NW L1236065-02 Solid

Collected by	Collected date/time	Received date/time
Tina Ralosky	07/01/20 14:20	07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1505933	1	07/08/20 23:29	07/08/20 23:47	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1507239	25	07/01/20 14:20	07/10/20 18:55	ADM	Mt. Juliet, TN

## EW L1236065-03 Solid

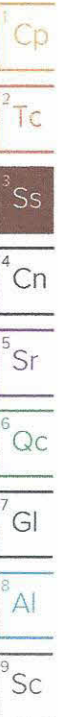
Collected by	Collected date/time	Received date/time
Tina Ralosky	07/01/20 14:30	07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1505933	1	07/08/20 23:29	07/08/20 23:47	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1507239	25	07/01/20 14:30	07/10/20 19:15	ADM	Mt. Juliet, TN

## TF-1 L1236065-04 Solid

Collected by	Collected date/time	Received date/time
Tina Ralosky	07/01/20 14:40	07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1505933	1	07/08/20 23:29	07/08/20 23:47	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1507239	25	07/01/20 14:40	07/10/20 19:36	ADM	Mt. Juliet, TN





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

Pam Langford  
Project Manager

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

D-1

Collected date/time: 07/01/20 10:30

## SAMPLE RESULTS - 01

L1236065

ONE LAB. NATIONWIDE.



## Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.4		1	07/08/2020 23:47	<a href="#">WG1505933</a>

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00535	0.0223	25	07/10/2020 18:34	<a href="#">WG1507239</a>
Toluene	0.0144	U	0.00669	0.223	25	07/10/2020 18:34	<a href="#">WG1507239</a>
Ethylbenzene	U		0.00490	0.0223	25	07/10/2020 18:34	<a href="#">WG1507239</a>
Total Xylene	U		0.0205	0.0669	25	07/10/2020 18:34	<a href="#">WG1507239</a>
TPH (GC/FID) Low Fraction	U		0.968	4.46	25	07/10/2020 18:34	<a href="#">WG1507239</a>
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	106			77.0-120		07/10/2020 18:34	<a href="#">WG1507239</a>
(S) <i>o,o,o</i> -Trifluorotoluene(PID)	102			72.0-128		07/10/2020 18:34	<a href="#">WG1507239</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.0		1	07/08/2020 23:47	<a href="#">WG1505933</a>

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00543	0.0226	25	07/10/2020 18:55	<a href="#">WG1507239</a>
Toluene	U		0.00679	0.226	25	07/10/2020 18:55	<a href="#">WG1507239</a>
Ethylbenzene	U		0.00498	0.0226	25	07/10/2020 18:55	<a href="#">WG1507239</a>
Total Xylene	U		0.0208	0.0679	25	07/10/2020 18:55	<a href="#">WG1507239</a>
TPH (GC/FID) Low Fraction	U		0.983	4.52	25	07/10/2020 18:55	<a href="#">WG1507239</a>
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		07/10/2020 18:55	<a href="#">WG1507239</a>
(S) a,a,a-Trifluorotoluene(PID)	102			72.0-128		07/10/2020 18:55	<a href="#">WG1507239</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.3		1	07/08/2020 23:47	<a href="#">WG1505933</a>

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00522	0.0218	25	07/10/2020 19:15	<a href="#">WG1507239</a>
Toluene	U		0.00653	0.218	25	07/10/2020 19:15	<a href="#">WG1507239</a>
Ethylbenzene	U		0.00479	0.0218	25	07/10/2020 19:15	<a href="#">WG1507239</a>
Total Xylene	U		0.0200	0.0653	25	07/10/2020 19:15	<a href="#">WG1507239</a>
TPH (GC/FID) Low Fraction	U		0.945	4.35	25	07/10/2020 19:15	<a href="#">WG1507239</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			77.0-120		07/10/2020 19:15	<a href="#">WG1507239</a>
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	102			72.0-128		07/10/2020 19:15	<a href="#">WG1507239</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	07/08/2020 23:47	<a href="#">WG1505933</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.0160	J	0.00411	0.0171	25	07/10/2020 19:36	<a href="#">WG1507239</a>
Toluene	0.0169	J	0.00514	0.171	25	07/10/2020 19:36	<a href="#">WG1507239</a>
Ethylbenzene	U		0.00377	0.0171	25	07/10/2020 19:36	<a href="#">WG1507239</a>
Total Xylene	U		0.0158	0.0514	25	07/10/2020 19:36	<a href="#">WG1507239</a>
TPH (GC/FID) Low Fraction	U		0.745	3.43	25	07/10/2020 19:36	<a href="#">WG1507239</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			77.0-120		07/10/2020 19:36	<a href="#">WG1507239</a>
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	101			72.0-128		07/10/2020 19:36	<a href="#">WG1507239</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

L1236065-01,02,03,04

Method Blank (MB)

(MB) R3547905-1 07/08/20 23:47

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

L1236065-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1236065-03 07/08/20 23:47 • (DUP) R3547905-3 07/08/20 23:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.3	77.2	1	2.58		10

Laboratory Control Sample (LCS)

(LCS) R3547905-2 07/08/20 23:47

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

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R3548500-3 07/10/20 16:22

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) a,a,a-Trifluorotoluene(FID)	106			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	104			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3548500-1 07/10/20 15:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0505	101	76.0-121	
Toluene	0.0500	0.0542	108	80.0-120	
Ethylbenzene	0.0500	0.0553	111	80.0-124	
Total Xylene	0.150	0.164	109	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			102	72.0-128	

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

(LCS) R3548500-2 07/10/20 15:41 • (LCSD) R3548500-4 07/10/20 17:11

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	6.09	5.26	111	95.6	72.0-127		14.6		20
(S) a,a,a-Trifluorotoluene(FID)				101	98.0	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				110	107	72.0-128				

Volatile Organic Compounds (GC) by Method 8015/8021

L1236065-01.02.03.04

L1236065-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1236065-04 07/10/20 19:36 • (MS) R3548500-5 07/11/20 04:14 • (MSD) R3548500-6 07/11/20 04:35

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	1.54	0.0160	1.55	1.52	99.8	98.1	25	10.0-155			1.79	32
Toluene	1.54	0.0169	1.65	1.62	106	104	25	10.0-160			1.68	34
Ethylbenzene	1.54	U	1.67	1.63	109	106	25	10.0-160			2.49	32
Total Xylene	4.59	U	4.85	4.74	106	103	25	10.0-160			2.29	32
(S) a,a,a-Trifluorotoluene(FID)					107	106		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					99.5	100		72.0-128				

L1236065-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1236065-04 07/10/20 19:36 • (MS) R3548500-7 07/11/20 04:56 • (MSD) R3548500-8 07/11/20 05:16

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	169	U	180	178	107	106	25	10.0-151			0.766	28
(S) a,a,a-Trifluorotoluene(FID)					98.2	98.9		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					108	108		72.0-128				



## 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.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### 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.
MDL (dry)	Method Detection Limit.
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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

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

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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 <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	T104704245-18-15
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:

PROJECT:

SDG:

DATE/TIME:

PAGE:

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