

August 13, 2015

Virginia Department of Environmental Quality  
Valley Regional Office  
P.O. Box 3000  
Harrisonburg, Virginia 22801

Attn: Mr. Todd A. Pitsenberger

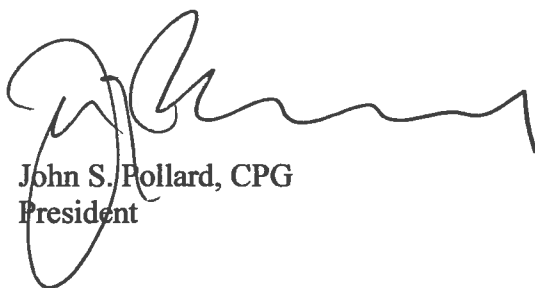
RE: PC #2016-6007; Burton Residence, 1001 Tabscott Road, Kents Store, Virginia 23084

Dear Mr. Pitsenberger:

Enclosed please find the Limited Site Characterization Report (LSCR) for PC# 2016-6007, a release from the AST at the residence of Beulah Burton. Also enclosed is the completed Activity Authorization Form (AAF) for the completed work.

Thank you for your attention to this matter, and please call if you have any questions or concerns.

Best Regards,



John S. Pollard, CPG  
President

Enclosures

cc: Ms. Beulah Burton  
PE File # 150713

**LIMITED SITE CHARACTERIZATION REPORT**

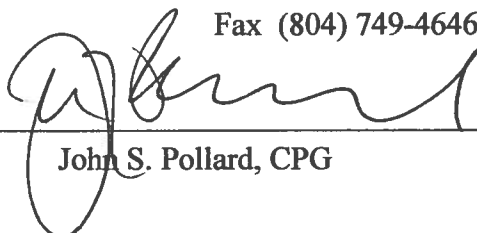
for  
**Burton Residence**  
**1001 Tabscott Road**  
**Kents Store, Virginia 23084**  
**PC# 2016-6007**

prepared for:  
Ms. Beulah Burton  
c/o Ms. Patty Senter  
10323 Accotink Pathway  
Ashland, Virginia 23005  
(804) 368-8424

submitted to:  
**Mr. Todd A. Pitsenberger**  
**Virginia Department of Environmental Quality**  
**Valley Regional Office**  
P.O. Box 3000  
Harrisonburg, Virginia 22801  
(540) 574-7847

prepared by:  
**Pollard Environmental, L.L.C.**  
2150 Ashland Road, Suite 200  
Rockville, Virginia 23146  
Phone (804) 749-3339  
Fax (804) 749-4646



Consultant:  Date: 8/13/15  
John S. Pollard, CPG

PE Project # 150713

**August 13, 2015**

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## **1.0 INTRODUCTION**

This report serves as the required Limited Site Characterization Report (LSCR) for PC #2016-6007 as required by the Virginia Department of Environmental Quality (VDEQ). It is in response to the VDEQ requirements pursuant to the reported release of #2 heating oil from a residential petroleum aboveground storage tank (AST) at the residence of Beulah Burton located at 1001 Tabscott Road in Kents Store (Fluvanna County), Virginia. The release was reported to the VDEQ Valley Regional Office (VRO) on July 11, 2015, by the Fluvanna County Fire Department. On July 14, 2015, an Environmental Pollution Report (EPR) was submitted to the VDEQ by Pollard Environmental, LLC ("PE"). The VDEQ required Category 2 corrective action.

Ms. Burton contracted PE to perform the VDEQ-required work. Unless otherwise stated, PE and subcontractors performed the work described in this report.

The release was #2 heating oil from the supply line fitting of a 275-gallon AST used for heating purposes on the premises. The AST was in use at the time of the release.

Figure 1 illustrates the general site location on a USGS 7.5 Minute Topographic Map, and Figure 2 is a site diagram showing the AST location, excavation area, soil sampling locations, and other pertinent site features. Figure 3 is an aerial photo of the site. Photographs of the site taken during the remediation work are included in this report as Appendix I.

## **2.0 INITIAL RELEASE INVESTIGATION / ASSESSMENT**

PE initially responded to the site on July 13, 2015. The AST was located at the rear of the house on the 5-ft tall stand adjacent to the exterior wall of the house. At the site PE observed surface petroleum contamination beneath the AST and confirmed that the leakage occurred from the supply line fitting of the AST. Also, a minor amount of free product was observed in the adjacent cellar. Based on owner information, it was estimated that a volume of approximately 200 gallons of heating oil was released.

PE also observed oil absorbent booms placed around the area of surface contaminated soils. The booms were placed by the Fluvanna County Fire Department prior to our site visit to prevent any possible lateral migration of the petroleum contamination.

### **3.0 CLEAN UP / REMEDIATION ACTIVITIES**

Per the VDEQ case manager's approval, the Category 2 clean up / remediation measures consisted of the excavation and treatment/disposal of the petroleum contaminated soils from the visibly impacted ground surface area around the removed AST and application of a bioremedial agent in the cellar. The specific activities are listed below.

#### **3.1 AST Relocation**

On July 14, 2015, PE transferred approximately 50 gallons of petroleum from the AST to a temporary AST. With the fitting repaired/replaced, the AST was then moved to a new location (see Figure 2), and the petroleum was transferred back to the AST.

#### **3.2 Excavation of Petroleum-contaminated Soils**

Petroleum-contaminated soils were over-excavated from the impacted area. In order to access the area, the iron steps were temporarily removed. A 12,000-pound rubber tracked excavator was used for excavating and loading, and a skid steer loader was used for backfilling. A 12-CY dump truck was used for hauling. Approximately 4.35 tons of petroleum-contaminated soils were excavated and transported to Reco Biotechnology, Inc. ("Reco") for treatment and disposal; a copy of Reco's manifest (76942) is included in Appendix II. Contaminated soils were excavated to a depth of approximately 8 – 19 inches, and the final excavation was 8 feet by 10 feet wide. The excavation was backfilled with clean off-site fill dirt. Topographic restoration consisted of grading the disturbed area.

#### **3.3 Soils Treatment**

Prior to backfilling, PE applied approximately one gallon of AgroRemed, which contains bacteria for bioremediation of the residual petroleum contaminants, on the soils in the excavation and on the exterior wall of the cellar adjacent to the excavated area.

#### **3.4 Remediation in Cellar**

Some petroleum impact was observed on the interior wall of the cellar adjacent to the excavated area, and there was some free product (FP) on the cellar floor. PE used oleophilic pads to remove/recover the FP. Also one gallon of bio-remedial/vapor mitigation product VaporRemed was applied on the impacted interior wall and floor in the cellar.

#### 4.0 SITE ASSESSMENT

##### 4.1 Soil Sampling/Analysis from Excavated Area

In order to adequately delineate the remaining contamination at the extent of the excavation, PE personnel obtained six soil grab samples from the extent of the excavation at depths ranging from 8 inches to 19 inches. These soil samples were field-screened using a Photo-Ionization Detector (PID), and four of the samples were laboratory-analyzed for Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO).

Table 1 below lists the depths of the samples and the laboratory analytical results, and Figure 2 shows the sampling locations. Copies of the laboratory reports (ENCO Laboratories, Samples ID: C509066-01 through C509066-04) and chain-of-custody document are included in Appendix III.

Table 1. – Summary of soil sampling laboratory results, PID Reading and samples depth.

<i>Sample I.D.</i>	<i>Depth (inches)</i>	<i>Sampling Location</i>	<i>PID Reading</i>	<i>TPH -DRO (mg/kg)<sup>1</sup></i>
SS-01	19	Southwest corner of the excavated area	109	1,700
SS-02	15	South side of the excavated area (beside the utilities conduit)	196	2,400
SS-03	15	Southeast corner of the excavated area	3.6	< 10
SS-04	10	Northeast corner of the excavated area	7.7	Not analyzed
SS-05	8	Northwest corner of the excavated area	2.1	120
SS-06	18	Middle of the excavated area	14	Not analyzed

<sup>1</sup> mg/kg is milligrams per kilogram, which is effectively equal to parts per million or ppm.

##### 4.2 Site Hydrogeology

Soils encountered during the excavating consisted of red/brown clay with slight sand (depth of 0 – 19 inches).

Groundwater was not encountered in the excavation (19 inches depth). The depth to the water table is uncertain. Based on the estimated depth to water in the on-site

drinking water well, the depth to water table is approximately 25 – 30 feet. The FP product that was initially observed on the surface in the impacted area was removed, and no visible free product was encountered during the further excavating.

Based on the USGS-Topographic map (Figure 1) and our field reconnaissance, there are no surface water bodies within at least 500 feet of the release.

#### **4.3 Migration Pathways**

Based on owner knowledge, site utility markings performed by Miss Utility, and our observations, the known buried utilities/construction trenches in the immediate vicinity of the release are the cellar and the associated structural footing, which appear to have been petroleum impacted. The cellar floor is at approximately 3 feet below ground surface. Our excavating revealed the electrical power and water lines in a conduit that ran across the southwest corner of the excavated area. This conduit appears to have served as a migration pathway enabling the petroleum to migrate into the cellar.

PE observed a drainage ditch along the west side of the property. It is our opinion that the ditch does not receive groundwater discharge under normal conditions. Figure 2 shows the ditch and the buried utilities in the general vicinity of the release.

#### **5.0 SUPPLY WELL SAMPLING/ANALYSIS**

The water at the residence is supplied by a domestic supply well, which is a bored 30-inch diameter concrete-cased well located approximately 43 feet topographically cross-gradient from the release (see Figure 2). The exact depth of the well is unknown at this time. On July 14, 2015, the depth to water in the well was estimated at approximately 25 – 30 feet below ground surface (no tape measure was used to determine depth to water in order to avoid potential cross-contamination).

On July 14, 2015, PE personnel obtained a sample of the water from an unfiltered outdoor spigot; the spigot was allowed to run for approximately 15 – 20 minutes prior to sample collection. The sampler donned clean latex/nitrile gloves, and the sample was collected in laboratory-supplied, pre-preserved sample containers. The sample containers were immediately placed on ice in a cooler and maintained chilled until delivery to the laboratory. The sample was analyzed for volatile organic compounds (VOCs) via EPA Method 8260 and semi-volatile organic compounds (SVOCs) via EPA Method 8270. The laboratory analyses indicate that none of the analytes were detected at their respective reporting/quantitation limits. The attached laboratory analytical report (ENCO Laboratories, Sample ID: C509072-01) lists the specific analytes, methods, and the detection limits (Appendix IV).

## 6.0 LIMITED RISK ASSESSMENT

The risks posed by the remaining contamination at this site are categorized as (i) risks to humans and (ii) risks to the environment. Regarding risks to humans, the routes of exposure and associated risks are discussed as follows:

1. Inhalation – The risk associated with vapor inhalation due to the AST release has been mitigated by removing the petroleum-impacted soils and treating soils and the cellar with the bioremedial products. The owner's daughter reported that there were no noticeable petroleum vapors in the house or outside.
2. Ingestion – The water supply for the residence is via a bored well located approximately 43 feet topographically cross-gradient from the release. PE personnel did not observe any other active domestic supply well within 500 feet of the release (see Figure 3). Based on our sampling/analysis of the site well water, there does not appear to be an immediate risk of petroleum contaminant ingestion at the subject property.
3. Dermal Contact – Risk associated with dermal contact is low due to the fact that the detected residual levels are low and confined to the subsurface.

Regarding risks to the environment at the site, the following information is pertinent:

1. Soils – Soil sampling/analysis data from the excavation indicate low to no detectable residual TPH-DRO contamination at depths of 8, 15, and 19 inches. The detected levels of contamination are well below the VDEQ-defined petroleum-saturation level of 13,000 mg/kg for #2 heating oil. Natural bio-attenuation and applied bioremedial products should continue to decrease the residual contaminant levels over the time.
2. Groundwater – The depth to groundwater is unknown, and it was not visibly encountered during excavating. Based on the depth to water in the on-site well, the estimated depth to groundwater is approximately 25 – 30 feet. Based on the soil sampling/analysis data, petroleum-saturated soils do not extend to the water table, and groundwater is unlikely to be impacted with free product.
3. Surface Water – There are no surface water bodies within at least 500 feet of the AST release. Risk to surface water appears low.
4. Migration Pathways – The cellar/foundation and the conduit appear to be the only preferential migration pathways in the immediate vicinity of the release. Remaining risks were mitigated by the remediation activities performed at the site.



August 13, 2015

VDEQ PC# 2016-6007; Burton Residence

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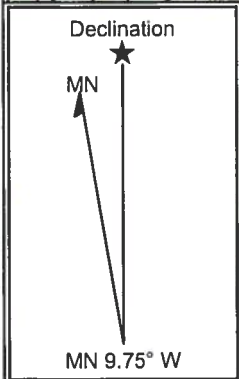
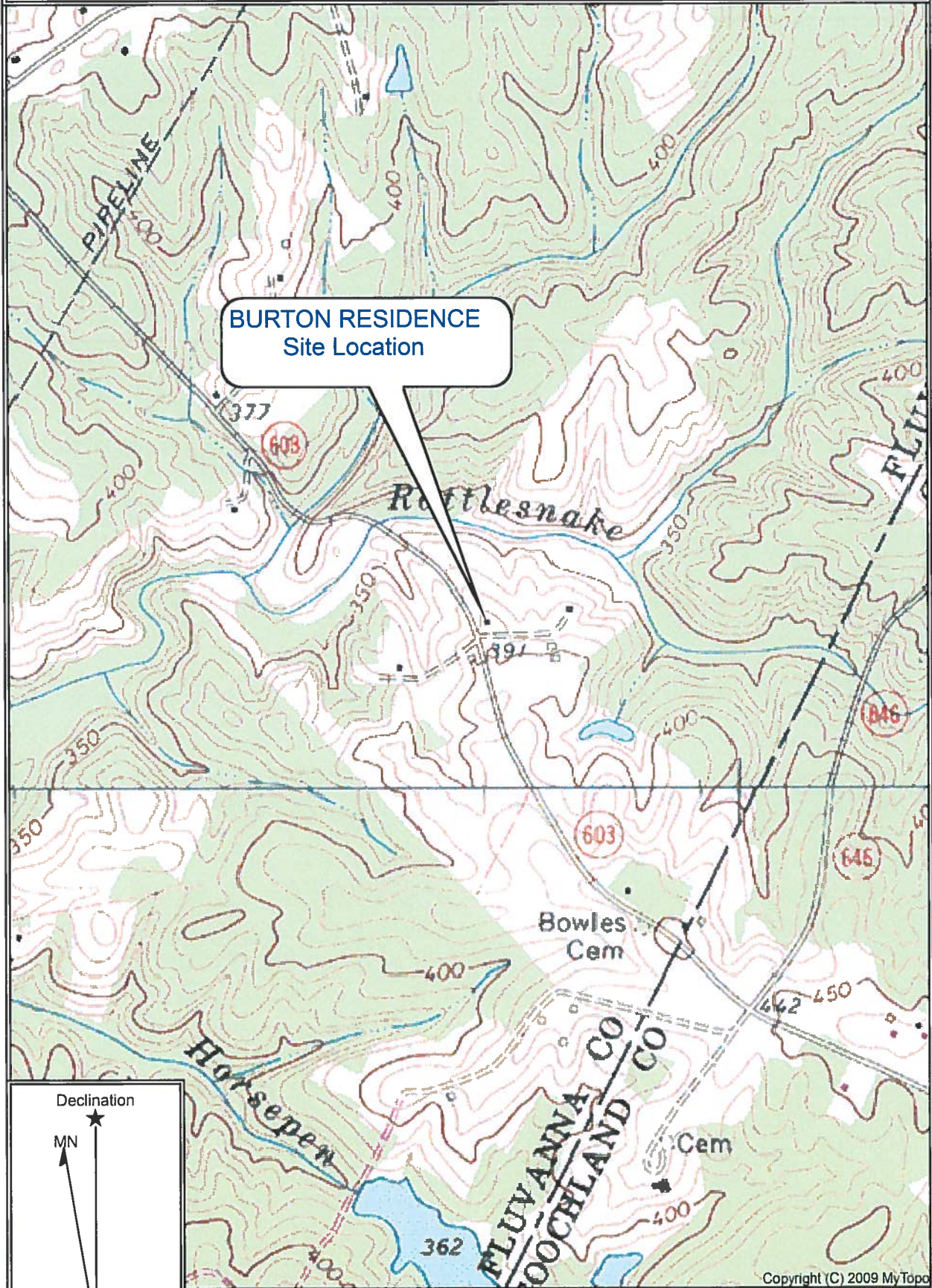
## **7.0 CONCLUSIONS AND RECOMMENDATION**

Based on our observations and data, we have arrived at the following conclusions:

1. The source has been eliminated and petroleum-saturated soils were removed.
2. The detected residual levels of petroleum contamination in the soils are well below the VDEQ-defined petroleum saturation level, and natural bio-attenuation together with bioremedial products should continue remediation of these contaminants. Groundwater is unlikely to be impacted, based on the detected levels of residual phase and the apparent depth top groundwater.
3. Based on our soil and well water sampling/analysis data and the surface gradient, it is unlikely that the drinking water well is at risk.
4. The owner has stated that since the remediation/clean up measures they have not noticed any petroleum odor outside or inside the house.

Although we cannot be certain of the subsurface conditions at this site, it is our opinion that based on the data obtained, this case should be considered for closure.

## **FIGURES (1 – 3)**



Copyright (C) 2009 MyTopo

BURTON RESIDENCE; VDEQ PC #2016-6007

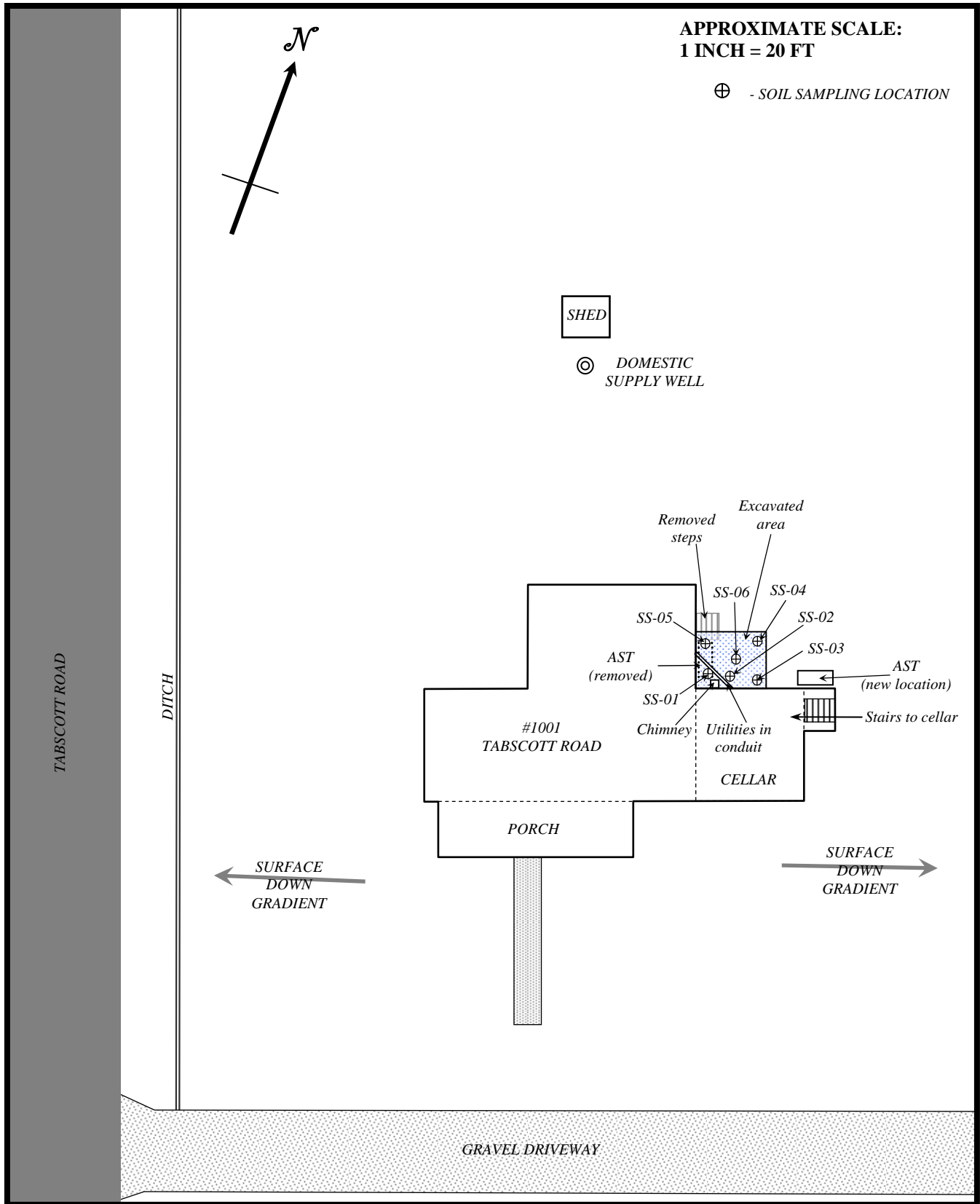


Figure 2. – Site diagram (Burton Residence; VDEQ PC #2016-6007)



Figure 3. – Aerial photo of the site (Burton Residence; VDEQ PC #2016-6007)

# **APPENDIX I**

Photographs of Site and Site Activities

**POLLARD ENVIRONMENTAL, LLC**  
VDEQ PC #2016-6007; Burton Residence



AST location



Removal of 275-gallon AST



Over-excavation of petroleum-contaminated soils





Extent of the over-excavation



VaporRemed sprayed in the cellar

**POLLARD ENVIRONMENTAL, LLC**  
VDEQ PC #2016-6007; Burton Residence



Skid steer loader used for backfilling



Final topographic restoration

# **APPENDIX II**

## **Soils Waste Transportation and Disposal Manifest**

For Facility Use Only

I.D.# 20469

# NON-HAZARDOUS MANIFEST

For Facility Use Only

Manifest# 76942

Date:

**Reco BIOTECHNOLOGY**  
710 Hospital Street  
Richmond, VA 23219  
(804) 644-2800

job# 150712

**Generator:** Name Burton Residence  
Address 1001 Tabscott Rd  
Kent Store, VA

Contact Name Price Pollard  
Telephone 804-749-3339

**Transporter:** Name Pollard Env  
or Carrier Address 2150 Ashland Rd  
Rockville VA

Contact Name \_\_\_\_\_  
Telephone \_\_\_\_\_

**Destination:** Reco Biotechnology  
**Delivery Address** 710 Hospital Street  
Richmond, VA 23219

Contact Reco Biotechnology  
Telephone (804) 644-2800

Route: \_\_\_\_\_

NO. of Packages	(* ) Container	Shipping Description	Soil Weight (Sub. to Cor.)
1	DT	Non-Regulated Material non-regulated None None (petroleum contaminated soil)	

Weight-Out:  
ID#: 515

- \* - DM = Drum
- DT = Dump Truck/Trailer
- SC = Steel Container
- RC = Rail Car

Truck #: 515

\*Gross Weight: 32 em 07/14/15  
Tare Weight: 25360 lb TRGross  
16660 lb TRTare  
Net Weight: 8700 lb TRNet

\* May attach weight tickets

### Certification:

I/We certify that the above material is not a HAZARDOUS WASTE as defined by the Resource Conservation and Recovery Act (RCRA), Virginia Hazardous Waste Management Regulations or as defined by the state of origin.

Michael O'Donnell  
PRINTED/TYPED NAME & TITLE

[Signature]  
SIGNATURE

7/19/15  
DATE

Truck Driver's Signature: [Signature] Date: \_\_\_\_\_

Discrepancies: \_\_\_\_\_

RECEIVED BY: Reco Biotechnology

SIGNED BY: Alfred Williams

DATE: 07-14-15

Aqua Clean of Virginia, LLC dba Reco Biotechnology

# **APPENDIX III**

Laboratory Analytical Reports  
for Soil Sampling from Excavated Area



# ENCO Laboratories

*Accurate. Timely. Responsive. Innovative.*

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

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Monday, July 20, 2015

Pollard Environmental PESA, LLC (PO013)

Attn: Nida Cistovaite

2150 Ashland Road, Suite 200

Rockville, VA 23146

**RE: Laboratory Results for**

**Project Number: 150712, Project Name/Desc: Burton-2**

**ENCO Workorder(s): C509066**

Dear Nida Cistovaite,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 15, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

**PROJECT NARRATIVE**

Date: 20 July 2015  
Client: Pollard Environmental PESA, LLC (PO013)  
Project: Burton-2  
Lab ID: C509066

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

At the client's request, the DRO analytical results are reported to a Reporting Limit of 10 mg/kg. In July 2009, 8015C was promulgated by the EPA; the previous method, 8015B, is no longer supported. The reported results meet the acceptance criteria for the previous as well as the current methods.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:  
Environmental Conservation Laboratories, Inc.

Stephanie Franz  
Project Manager





**SAMPLE DETECTION SUMMARY**

**Client ID: SS-01** **Lab ID: C509066-01RE1**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>	<b>Notes</b>
DRO (C10-C28)	1700	D	8.5	50	mg/kg dry	EPA 8015C	

**Client ID: SS-02** **Lab ID: C509066-02RE1**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>	<b>Notes</b>
DRO (C10-C28)	2400	D	17	100	mg/kg dry	EPA 8015C	

**Client ID: SS-05** **Lab ID: C509066-04**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>	<b>Notes</b>
DRO (C10-C28)	120		1.7	10	mg/kg dry	EPA 8015C	

**ANALYTICAL RESULTS**

<b>Description:</b> SS-01	<b>Lab Sample ID:</b> C509066-01	<b>Received:</b> 07/15/15 10:30
<b>Matrix:</b> Soil	<b>Sampled:</b> 07/14/15 11:55	<b>Work Order:</b> C509066
<b>Project:</b> Burton-2	<b>Sampled By:</b> Emily Portwood	<b>% Solids:</b> 80.75

**Diesel Range Organics by GC**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28)^	1700	D	mg/kg dry	5	50	5G15026	EPA 8015C	07/20/15 11:33	MWC	
<b>Surrogates</b>										
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
<i>o</i> -Terphenyl	0.0	5	2.06	%	51-138	5G15026	EPA 8015C	07/20/15 11:33	MWC	QS-04

<b>Description:</b> SS-02	<b>Lab Sample ID:</b> C509066-02	<b>Received:</b> 07/15/15 10:30
<b>Matrix:</b> Soil	<b>Sampled:</b> 07/14/15 11:58	<b>Work Order:</b> C509066
<b>Project:</b> Burton-2	<b>Sampled By:</b> Emily Portwood	<b>% Solids:</b> 80.55

**Diesel Range Organics by GC**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28)^	2400	D	mg/kg dry	10	100	5G15026	EPA 8015C	07/20/15 12:06	MWC	
<b>Surrogates</b>										
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
<i>o</i> -Terphenyl	0.0	10	2.07	%	51-138	5G15026	EPA 8015C	07/20/15 12:06	MWC	QS-04

<b>Description:</b> SS-03	<b>Lab Sample ID:</b> C509066-03	<b>Received:</b> 07/15/15 10:30
<b>Matrix:</b> Soil	<b>Sampled:</b> 07/14/15 12:00	<b>Work Order:</b> C509066
<b>Project:</b> Burton-2	<b>Sampled By:</b> Emily Portwood	<b>% Solids:</b> 82.50

**Diesel Range Organics by GC**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28)^	10	U	mg/kg dry	1	10	5G15026	EPA 8015C	07/16/15 11:29	MWC	
<b>Surrogates</b>										
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
<i>o</i> -Terphenyl	1.5	1	2.02	73 %	51-138	5G15026	EPA 8015C	07/16/15 11:29	MWC	

<b>Description:</b> SS-05	<b>Lab Sample ID:</b> C509066-04	<b>Received:</b> 07/15/15 10:30
<b>Matrix:</b> Soil	<b>Sampled:</b> 07/14/15 12:05	<b>Work Order:</b> C509066
<b>Project:</b> Burton-2	<b>Sampled By:</b> Emily Portwood	<b>% Solids:</b> 80.86

**Diesel Range Organics by GC**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28)^	120		mg/kg dry	1	10	5G15026	EPA 8015C	07/17/15 23:34	MWC	
<b>Surrogates</b>										
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
<i>o</i> -Terphenyl	1.5	1	2.06	71 %	51-138	5G15026	EPA 8015C	07/17/15 23:34	MWC	

**QUALITY CONTROL DATA**

**Diesel Range Organics by GC - Quality Control**

**Batch 5G15026 - EPA 3550C**

**Blank (5G15026-BLK1)**

Prepared: 07/15/2015 11:30 Analyzed: 07/16/2015 08:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	10	U	10	mg/kg wet							
<i>o</i> -Terphenyl	1.4			mg/kg wet	1.67		82	51-138			

**LCS (5G15026-BS1)**

Prepared: 07/15/2015 11:30 Analyzed: 07/16/2015 09:22

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	25		10	mg/kg wet	33.3		74	37-116			
<i>o</i> -Terphenyl	1.4			mg/kg wet	1.67		86	51-138			

**Matrix Spike (5G15026-MS1)**

Prepared: 07/15/2015 11:30 Analyzed: 07/16/2015 09:54

Source: C509066-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	36		10	mg/kg dry	40.4	2.0	83	37-116			
<i>o</i> -Terphenyl	1.9			mg/kg dry	2.02		95	51-138			

**Matrix Spike Dup (5G15026-MSD1)**

Prepared: 07/15/2015 11:30 Analyzed: 07/16/2015 10:25

Source: C509066-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	34		10	mg/kg dry	40.4	2.0	80	37-116	4	45	
<i>o</i> -Terphenyl	1.9			mg/kg dry	2.02		94	51-138			

**FLAGS/NOTES AND DEFINITIONS**

- B** The analyte was detected in the associated method blank.
- D** The sample was analyzed at dilution.
- J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- QS-04** Surrogate recovery not calculated. Surrogate diluted out of the calibration range.



10775 Central Port Dr.  
Orlando, FL 32824  
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111  
Jacksonville, FL 32216-6069  
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.  
Cary, NC 27511  
(919) 467-3090 Fax (919) 467-3515

Client Name: Pollard Environmental PESA, LLC (PO013)  
Address: 2150 Ashland Rd, Suite 200  
City/ST/Zip: Rockville, VA 23146  
Tel: (804) 749-3339 Fax: \_\_\_\_\_  
Project Number: 150712  
Project Name/Desc: Borton  
PC # / Billing Info: \_\_\_\_\_  
Reporting Contact: Nida Cistovaitė/Clinton Lewis  
Billing Contact: Suzanne DuBose  
Site Location / Time Zone: \_\_\_\_\_

Requested Turnaround Times: \_\_\_\_\_  
Standard \_\_\_\_\_  
Expedited \_\_\_\_\_  
Due: \_\_\_/\_\_\_/\_\_\_  
Lab Workorder: CS09066

Note: Rush requests subject to acceptance by the facility.

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Requested Analyses
	SS-01	7-14-15	11:55	Grab	So	1		%Solids, DRO 8015C
	SS-02		11:58			1		%Solids, GRO 8015C
	SS-03		12:00			1		
	SS-05		12:05			1		
	1A/1B/1C/1D/1E							

Sample Kit Prepared By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Relinquished By: Emily Permyl Date/Time: 7-14-15/4:40  
Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received By: [Signature] Date/Time: 7-15-15 10:30  
Cooler #'s & Temps on Receipt: 27°C  
Condition Upon Receipt:  Acceptable  Unacceptable

Comments/Special Reporting Requirements: \_\_\_\_\_

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)  
Preservation: H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)  
Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

# **APPENDIX IV**

Laboratory Analytical Report  
for Domestic Supply Well Water Sampling



# ENCO Laboratories

*Accurate. Timely. Responsive. Innovative.*

**102-A Woodwinds Industrial Court  
Cary NC, 27511**

**Phone: 919.467.3090 FAX: 919.467.3515**

---

Wednesday, July 29, 2015  
Pollard Environmental, LLC (PO010)  
Attn: Nida Cistovaite  
2150 Ashland Road, Suite 200  
Rockville, VA 23146

**RE: Laboratory Results for  
Project Number: 150712, Project Name/Desc: Burton  
ENCO Workorder(s): C509072**

Dear Nida Cistovaite,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 15, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stephanie Franz', written over a light gray grid background.

Stephanie Franz  
Project Manager  
Enclosure(s)



www.encolabs.com

## PROJECT NARRATIVE

Date: 29 July 2015  
Client: Pollard Environmental, LLC (PO010)  
Project: Burton  
Lab ID: C509072

### Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

### Quality Control Samples

No Comments

### Quality Control Remarks

No Comments

### Other Comments

In July 2009, 8270D was promulgated by the EPA; the previous method, 8270C, is no longer supported. The reported results meet the acceptance criteria for the previous as well as the current methods.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:  
Environmental Conservation Laboratories, Inc.

Stephanie Franz  
Project Manager



**SAMPLE SUMMARY/LABORATORY CHRONICLE****Client ID: 1001 Tabscott Rd      Lab ID: C509072-01      Sampled: 07/14/15 15:05      Received: 07/15/15 10:30**

<u>Parameter</u>	<u>Hold Date/Time(s)</u>	<u>Prep Date/Time(s)</u>	<u>Analysis Date/Time(s)</u>
EPA 8260B	07/28/15	07/16/15 10:31	07/16/15 19:55
EPA 8270D	07/21/15 08/29/15	07/20/15 11:05	07/22/15 15:15

**Client ID: Trip Blank      Lab ID: C509072-02      Sampled: 07/14/15 15:05      Received: 07/15/15 10:30**

<u>Parameter</u>	<u>Hold Date/Time(s)</u>	<u>Prep Date/Time(s)</u>	<u>Analysis Date/Time(s)</u>
EPA 8260B	07/28/15	07/16/15 10:31	07/16/15 15:57

**SAMPLE DETECTION SUMMARY**

**No positive results detected.**

**ANALYTICAL RESULTS**

**Description:** 1001 Tabscott Rd

**Lab Sample ID:** C509072-01

**Received:** 07/15/15 10:30

**Matrix:** Ground Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** Emily Portwood

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,1-Dichloropropene [563-58-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	0.012	U	ug/L	1	0.012	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2,4-Trimethylbenzene [95-63-6]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,3,5-Trimethylbenzene [108-67-8]^	0.30	U	ug/L	1	0.30	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,3-Dichlorobenzene [541-73-1]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,3-Dichloropropane [142-28-9]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
2,2-Dichloropropane [594-20-7]^	0.28	U	ug/L	1	0.28	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
2-Chloroethyl Vinyl Ether [110-75-8]^	1.1	U	ug/L	1	1.1	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
2-Chlorotoluene [95-49-8]^	0.081	U	ug/L	1	0.081	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
4-Chlorotoluene [106-43-4]^	0.068	U	ug/L	1	0.068	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
4-Isopropyltoluene [99-87-6]^	0.085	U	ug/L	1	0.085	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Acetone [67-64-1]^	1.2	U	ug/L	1	1.2	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Bromobenzene [108-86-1]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Dichlorodifluoromethane [75-71-8]^	0.20	U	ug/L	1	0.20	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	

**ANALYTICAL RESULTS**

**Description:** 1001 Tabscott Rd

**Lab Sample ID:** C509072-01

**Received:** 07/15/15 10:30

**Matrix:** Ground Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** Emily Portwood

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Hexachlorobutadiene [87-68-3]^	0.22	U	ug/L	1	0.22	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Isopropylbenzene [98-82-8]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Naphthalene [91-20-3]^	0.11	U	ug/L	1	0.11	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
n-Butyl Benzene [104-51-8]^	0.058	U	ug/L	1	0.058	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
n-Propyl Benzene [103-65-1]^	0.12	U	ug/L	1	0.12	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
sec-Butylbenzene [135-98-8]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
tert-Butylbenzene [98-06-6]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	5G16021	EPA 8260B	07/16/15 19:55	MSZ	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	48	1	50.0	96 %	53-136	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Dibromofluoromethane	55	1	50.0	109 %	67-129	5G16021	EPA 8260B	07/16/15 19:55	MSZ	
Toluene-d8	50	1	50.0	101 %	59-134	5G16021	EPA 8260B	07/16/15 19:55	MSZ	

**Semivolatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
1,2-Dichlorobenzene [95-50-1]^	1.1	U	ug/L	1	1.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
1,3-Dichlorobenzene [541-73-1]^	1.1	U	ug/L	1	1.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
1,4-Dichlorobenzene [106-46-7]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
1-Methylnaphthalene [90-12-0]	1.7	U	ug/L	1	1.7	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4,5-Trichlorophenol [95-95-4]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4,6-Trichlorophenol [88-06-2]^	1.1	U	ug/L	1	1.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4-Dichlorophenol [120-83-2]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4-Dimethylphenol [105-67-9]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4-Dinitrophenol [51-28-5]^	2.6	U	ug/L	1	2.6	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,4-Dinitrotoluene [121-14-2]^	2.4	U	ug/L	1	2.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2,6-Dinitrotoluene [606-20-2]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Chloronaphthalene [91-58-7]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Chlorophenol [95-57-8]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	2.9	U	ug/L	1	2.9	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Methylnaphthalene [91-57-6]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Methylphenol [95-48-7]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Nitroaniline [88-74-4]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	QV-01
2-Nitrophenol [88-75-5]^	1.1	U	ug/L	1	1.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	

**ANALYTICAL RESULTS**

**Description:** 1001 Tabscott Rd

**Lab Sample ID:** C509072-01

**Received:** 07/15/15 10:30

**Matrix:** Ground Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** Emily Portwood

**Semivolatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
3 & 4-Methylphenol [108-39-4/106-44-5]^	1.6	U	ug/L	1	1.6	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	3.3	U	ug/L	1	3.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
3-Nitroaniline [99-09-2]^	2.1	U	ug/L	1	2.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Bromophenyl-phenylether [101-55-3]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Chloro-3-methylphenol [59-50-7]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Chloroaniline [106-47-8]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	1.6	U	ug/L	1	1.6	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Nitroaniline [100-01-6]^	3.2	U	ug/L	1	3.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
4-Nitrophenol [100-02-7]^	2.0	U	ug/L	1	2.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Acenaphthene [83-32-9]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Acenaphthylene [208-96-8]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Anthracene [120-12-7]^	1.6	U	ug/L	1	1.6	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benidine [92-87-5]^	1.6	U	ug/L	1	1.6	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzo(a)anthracene [56-55-3]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzo(a)pyrene [50-32-8]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzo(b)fluoranthene [205-99-2]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzo(g,h,i)perylene [191-24-2]^	2.4	U	ug/L	1	2.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzo(k)fluoranthene [207-08-9]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzoic acid [65-85-0]^	1.0	U	ug/L	1	1.0	50	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Benzyl alcohol [100-51-6]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	QV-01
Bis(2-ethylhexyl)phthalate [117-81-7]^	1.7	U	ug/L	1	1.7	5.0	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Butylbenzylphthalate [85-68-7]^	2.0	U	ug/L	1	2.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Chrysene [218-01-9]^	2.0	U	ug/L	1	2.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	2.3	U	ug/L	1	2.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Dibenzofuran [132-64-9]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Diethylphthalate [84-66-2]^	2.1	U	ug/L	1	2.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Dimethylphthalate [131-11-3]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Di-n-butylphthalate [84-74-2]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Di-n-octylphthalate [117-84-0]^	3.1	U	ug/L	1	3.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Fluoranthene [206-44-0]^	2.1	U	ug/L	1	2.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Fluorene [86-73-7]^	1.7	U	ug/L	1	1.7	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Hexachlorobenzene [118-74-1]^	1.0	U	ug/L	1	1.0	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Hexachlorobutadiene [87-68-3]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Hexachlorocyclopentadiene [77-47-4]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Hexachloroethane [67-72-1]^	1.1	U	ug/L	1	1.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	2.2	U	ug/L	1	2.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Isophorone [78-59-1]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Naphthalene [91-20-3]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Nitrobenzene [98-95-3]^	1.2	U	ug/L	1	1.2	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
N-Nitrosodimethylamine [62-75-9]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	1.5	U	ug/L	1	1.5	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	2.1	U	ug/L	1	2.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Pentachlorophenol [87-86-5]^	1.8	U	ug/L	1	1.8	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Phenanthrene [85-01-8]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	



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### ANALYTICAL RESULTS

**Description:** 1001 Tabscott Rd

**Lab Sample ID:** C509072-01

**Received:** 07/15/15 10:30

**Matrix:** Ground Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** Emily Portwood

### Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Phenol [108-95-2]^	1.4	U	ug/L	1	1.4	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Pyrene [129-00-0]^	2.1	U	ug/L	1	2.1	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Pyridine [110-86-1]^	1.3	U	ug/L	1	1.3	10	5G20026	EPA 8270D	07/22/15 15:15	DFM	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4,6-Tribromophenol	73	1	100	73 %	10-179	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Fluorobiphenyl	36	1	50.0	72 %	10-149	5G20026	EPA 8270D	07/22/15 15:15	DFM	
2-Fluorophenol	54	1	100	54 %	10-110	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Nitrobenzene-d5	38	1	50.0	77 %	10-149	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Phenol-d5	46	1	100	46 %	10-88	5G20026	EPA 8270D	07/22/15 15:15	DFM	
Terphenyl-d14	37	1	50.0	74 %	10-188	5G20026	EPA 8270D	07/22/15 15:15	DFM	

**ANALYTICAL RESULTS**

**Description:** Trip Blank

**Lab Sample ID:** C509072-02

**Received:** 07/15/15 10:30

**Matrix:** Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** ENCO

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,1-Dichloropropene [563-58-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	0.012	U	ug/L	1	0.012	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2,4-Trimethylbenzene [95-63-6]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,3,5-Trimethylbenzene [108-67-8]^	0.30	U	ug/L	1	0.30	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,3-Dichlorobenzene [541-73-1]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,3-Dichloropropane [142-28-9]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
2,2-Dichloropropane [594-20-7]^	0.28	U	ug/L	1	0.28	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
2-Chloroethyl Vinyl Ether [110-75-8]^	1.1	U	ug/L	1	1.1	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
2-Chlorotoluene [95-49-8]^	0.081	U	ug/L	1	0.081	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
4-Chlorotoluene [106-43-4]^	0.068	U	ug/L	1	0.068	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
4-Isopropyltoluene [99-87-6]^	0.085	U	ug/L	1	0.085	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Acetone [67-64-1]^	1.2	U	ug/L	1	1.2	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Bromobenzene [108-86-1]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Dichlorodifluoromethane [75-71-8]^	0.20	U	ug/L	1	0.20	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	

**ANALYTICAL RESULTS**

**Description:** Trip Blank

**Lab Sample ID:** C509072-02

**Received:** 07/15/15 10:30

**Matrix:** Water

**Sampled:** 07/14/15 15:05

**Work Order:** C509072

**Project:** Burton

**Sampled By:** ENCO

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [VELAP 460146]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Hexachlorobutadiene [87-68-3]^	0.22	U	ug/L	1	0.22	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Isopropylbenzene [98-82-8]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.16	U	ug/L	1	0.16	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Naphthalene [91-20-3]^	0.11	U	ug/L	1	0.11	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
n-Butyl Benzene [104-51-8]^	0.058	U	ug/L	1	0.058	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
n-Propyl Benzene [103-65-1]^	0.12	U	ug/L	1	0.12	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
sec-Butylbenzene [135-98-8]^	0.10	U	ug/L	1	0.10	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
tert-Butylbenzene [98-06-6]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	5G16021	EPA 8260B	07/16/15 15:57	MSZ	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	48	1	50.0	95 %	53-136	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Dibromofluoromethane	51	1	50.0	102 %	67-129	5G16021	EPA 8260B	07/16/15 15:57	MSZ	
Toluene-d8	49	1	50.0	99 %	59-134	5G16021	EPA 8260B	07/16/15 15:57	MSZ	



**QUALITY CONTROL DATA**

**Volatile Organic Compounds by GCMS - Quality Control**

**Batch 5G16021 - EPA 5030B\_MS**

**Blank (5G16021-BLK1)**

Prepared: 07/16/2015 10:31 Analyzed: 07/16/2015 14:27

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.012	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.10	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.30	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.081	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.068	U	1.0	ug/L							
4-Isopropyltoluene	0.085	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromobenzene	0.16	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							

**QUALITY CONTROL DATA**

**Volatile Organic Compounds by GCMS - Quality Control**

*Batch 5G16021 - EPA 5030B\_MS - Continued*

**Blank (5G16021-BLK1) Continued**

Prepared: 07/16/2015 10:31 Analyzed: 07/16/2015 14:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
n-Butyl Benzene	0.058	U	1.0	ug/L							
n-Propyl Benzene	0.12	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
sec-Butylbenzene	0.10	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
tert-Butylbenzene	0.17	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
<hr/>											
4-Bromofluorobenzene	49			ug/L	50.0		97	53-136			
Dibromofluoromethane	49			ug/L	50.0		98	67-129			
Toluene-d8	50			ug/L	50.0		100	59-134			

**LCS (5G16021-BS1)**

Prepared: 07/16/2015 10:31 Analyzed: 07/16/2015 11:29

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	15		1.0	ug/L	20.0		75	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		110	83-117			
Toluene	21		1.0	ug/L	20.0		107	71-118			
Trichloroethene	20		1.0	ug/L	20.0		102	74-119			
<hr/>											
4-Bromofluorobenzene	49			ug/L	50.0		98	53-136			
Dibromofluoromethane	46			ug/L	50.0		92	67-129			
Toluene-d8	50			ug/L	50.0		99	59-134			

**Matrix Spike (5G16021-MS1)**

Prepared: 07/16/2015 10:31 Analyzed: 07/16/2015 11:58

**Source: C509138-02**

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	111	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-119			
<hr/>											
4-Bromofluorobenzene	49			ug/L	50.0		98	53-136			
Dibromofluoromethane	45			ug/L	50.0		91	67-129			
Toluene-d8	50			ug/L	50.0		100	59-134			

**QUALITY CONTROL DATA**

**Volatile Organic Compounds by GCMS - Quality Control**

*Batch 5G16021 - EPA 5030B\_MS - Continued*

**Matrix Spike Dup (5G16021-MSD1)**

Prepared: 07/16/2015 10:31 Analyzed: 07/16/2015 12:28

Source: C509138-02

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	96	81-134	3	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	108	83-117	3	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118	0	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119	3	22	
<i>4-Bromofluorobenzene</i>	<i>48</i>			<i>ug/L</i>	<i>50.0</i>		<i>96</i>	<i>53-136</i>			
<i>Dibromofluoromethane</i>	<i>45</i>			<i>ug/L</i>	<i>50.0</i>		<i>89</i>	<i>67-129</i>			
<i>Toluene-d8</i>	<i>49</i>			<i>ug/L</i>	<i>50.0</i>		<i>97</i>	<i>59-134</i>			

**Semivolatile Organic Compounds by GCMS - Quality Control**

*Batch 5G20026 - EPA 3510C\_MS*

**Blank (5G20026-BLK1)**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 12:23

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	1.2	U	10	ug/L							
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.0	U	10	ug/L							
1-Methylnaphthalene	1.7	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzidine	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							

QV-01

**QUALITY CONTROL DATA**

**Semivolatile Organic Compounds by GCMS - Quality Control**

*Batch 5G20026 - EPA 3510C\_MS - Continued*

**Blank (5G20026-BLK1) Continued**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 12:23

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzoic acid	1.0	U	50	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							QV-01
Butylbenzylphthalate	2.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Pyridine	1.3	U	10	ug/L							
<hr/>											
<i>2,4,6-Tribromophenol</i>	<i>62</i>			<i>ug/L</i>	<i>100</i>		<i>62</i>	<i>10-179</i>			
<i>2-Fluorobiphenyl</i>	<i>32</i>			<i>ug/L</i>	<i>50.0</i>		<i>63</i>	<i>10-149</i>			
<i>2-Fluorophenol</i>	<i>45</i>			<i>ug/L</i>	<i>100</i>		<i>45</i>	<i>10-110</i>			
<i>Nitrobenzene-d5</i>	<i>34</i>			<i>ug/L</i>	<i>50.0</i>		<i>68</i>	<i>10-149</i>			
<i>Phenol-d5</i>	<i>37</i>			<i>ug/L</i>	<i>100</i>		<i>37</i>	<i>10-88</i>			
<i>Terphenyl-d14</i>	<i>37</i>			<i>ug/L</i>	<i>50.0</i>		<i>73</i>	<i>10-188</i>			

**LCS (5G20026-BS1)**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 12:52

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	27		10	ug/L	50.0		55	27-90			
1,4-Dichlorobenzene	24		10	ug/L	50.0		49	23-84			
2,4-Dinitrotoluene	37		10	ug/L	50.0		74	67-132			

**QUALITY CONTROL DATA**

**Semivolatile Organic Compounds by GCMS - Quality Control**

*Batch 5G20026 - EPA 3510C\_MS - Continued*

**LCS (5G20026-BS1) Continued**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 12:52

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2-Chlorophenol	30		10	ug/L	50.0		60	40-109			
4-Chloro-3-methylphenol	36		10	ug/L	50.0		72	58-121			
4-Nitrophenol	26		10	ug/L	50.0		52	33-105			
Acenaphthene	33		10	ug/L	50.0		66	39-125			
N-Nitroso-di-n-propylamine	34		10	ug/L	50.0		68	48-126			
Pentachlorophenol	33		10	ug/L	50.0		66	51-135			
Phenol	21		10	ug/L	50.0		42	19-78			
Pyrene	41		10	ug/L	50.0		82	44-137			
<i>2,4,6-Tribromophenol</i>	<i>72</i>			<i>ug/L</i>	<i>100</i>		<i>72</i>	<i>10-179</i>			
<i>2-Fluorobiphenyl</i>	<i>34</i>			<i>ug/L</i>	<i>50.0</i>		<i>67</i>	<i>10-149</i>			
<i>2-Fluorophenol</i>	<i>47</i>			<i>ug/L</i>	<i>100</i>		<i>47</i>	<i>10-110</i>			
<i>Nitrobenzene-d5</i>	<i>34</i>			<i>ug/L</i>	<i>50.0</i>		<i>67</i>	<i>10-149</i>			
<i>Phenol-d5</i>	<i>40</i>			<i>ug/L</i>	<i>100</i>		<i>40</i>	<i>10-88</i>			
<i>Terphenyl-d14</i>	<i>39</i>			<i>ug/L</i>	<i>50.0</i>		<i>78</i>	<i>10-188</i>			

**Matrix Spike (5G20026-MS1)**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 13:20

**Source: C508015-01**

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	25		10	ug/L	50.0	1.2 U	49	27-90			
1,4-Dichlorobenzene	22		10	ug/L	50.0	1.0 U	44	23-84			
2,4-Dinitrotoluene	43		10	ug/L	50.0	2.4 U	87	67-132			
2-Chlorophenol	32		10	ug/L	50.0	1.2 U	64	40-109			
4-Chloro-3-methylphenol	44		10	ug/L	50.0	1.5 U	88	58-121			
4-Nitrophenol	36		10	ug/L	50.0	2.0 U	72	33-105			
Acenaphthene	36		10	ug/L	50.0	1.4 U	72	39-125			
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0	1.5 U	76	48-126			
Pentachlorophenol	40		10	ug/L	50.0	1.8 U	80	51-135			
Phenol	24		10	ug/L	50.0	1.4 U	48	19-78			
Pyrene	42		10	ug/L	50.0	2.1 U	84	44-137			
<i>2,4,6-Tribromophenol</i>	<i>81</i>			<i>ug/L</i>	<i>100</i>		<i>81</i>	<i>10-179</i>			
<i>2-Fluorobiphenyl</i>	<i>34</i>			<i>ug/L</i>	<i>50.0</i>		<i>69</i>	<i>10-149</i>			
<i>2-Fluorophenol</i>	<i>48</i>			<i>ug/L</i>	<i>100</i>		<i>48</i>	<i>10-110</i>			
<i>Nitrobenzene-d5</i>	<i>35</i>			<i>ug/L</i>	<i>50.0</i>		<i>70</i>	<i>10-149</i>			
<i>Phenol-d5</i>	<i>45</i>			<i>ug/L</i>	<i>100</i>		<i>45</i>	<i>10-88</i>			
<i>Terphenyl-d14</i>	<i>39</i>			<i>ug/L</i>	<i>50.0</i>		<i>79</i>	<i>10-188</i>			

**Matrix Spike Dup (5G20026-MSD1)**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 13:49

**Source: C508015-01**

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	36		10	ug/L	50.0	1.2 U	72	27-90	38	43	
1,4-Dichlorobenzene	34		10	ug/L	50.0	1.0 U	69	23-84	43	39	QM-11
2,4-Dinitrotoluene	41		10	ug/L	50.0	2.4 U	82	67-132	6	17	
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	73	40-109	14	22	
4-Chloro-3-methylphenol	42		10	ug/L	50.0	1.5 U	84	58-121	5	22	
4-Nitrophenol	28		10	ug/L	50.0	2.0 U	57	33-105	24	27	
Acenaphthene	40		10	ug/L	50.0	1.4 U	79	39-125	9	25	
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	83	48-126	9	23	
Pentachlorophenol	37		10	ug/L	50.0	1.8 U	75	51-135	6	11	

**QUALITY CONTROL DATA**

**Semivolatile Organic Compounds by GCMS - Quality Control**

*Batch 5G20026 - EPA 3510C\_MS - Continued*

**Matrix Spike Dup (5G20026-MSD1) Continued**

Prepared: 07/20/2015 11:05 Analyzed: 07/22/2015 13:49

Source: C508015-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Phenol	25		10	ug/L	50.0	1.4 U	51	19-78	5	18	
Pyrene	42		10	ug/L	50.0	2.1 U	84	44-137	0.02	24	
<i>2,4,6-Tribromophenol</i>	<i>78</i>			<i>ug/L</i>	<i>100</i>		<i>78</i>	<i>10-179</i>			
<i>2-Fluorobiphenyl</i>	<i>38</i>			<i>ug/L</i>	<i>50.0</i>		<i>76</i>	<i>10-149</i>			
<i>2-Fluorophenol</i>	<i>55</i>			<i>ug/L</i>	<i>100</i>		<i>55</i>	<i>10-110</i>			
<i>Nitrobenzene-d5</i>	<i>40</i>			<i>ug/L</i>	<i>50.0</i>		<i>80</i>	<i>10-149</i>			
<i>Phenol-d5</i>	<i>46</i>			<i>ug/L</i>	<i>100</i>		<i>46</i>	<i>10-88</i>			
<i>Terphenyl-d14</i>	<i>39</i>			<i>ug/L</i>	<i>50.0</i>		<i>78</i>	<i>10-188</i>			

## FLAGS/NOTES AND DEFINITIONS

- B** The analyte was detected in the associated method blank.
- D** The sample was analyzed at dilution.
- J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- QM-11** Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
- QV-01** The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.



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Orlando, FL 32824  
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4810 Executive Park Court, Suite 111  
Jacksonville, FL 32216-6069  
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102-A Woodwinds Industrial Ct.  
Cary, NC 27511  
(919) 467-3090 Fax (919) 467-3515

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Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

Standard

Expedited

Due      /      /     

Lab Workorder

CS09072

Sample Comments

Client Name: Pollard Environmental LLC (PO010)  
Address: 2150 Ashland Rd, Suite 200, Rockville, VA 23146  
City/ST/Zip: Rockville, VA 23146  
Tel: (804) 749-3339 Fax:   
Sample(s) Name, Affiliation (Print): Emily Parrish  
Sampler(s) Signature: *Emily Parrish*  
Project Number: 150712  
Project Name/Desc: BURTON  
PO # / Billing Info:   
Reporting Contact: Aida Cristovite  
Billing Contact: Suzanne DuBose  
Site Location / Time Zone:   
Requested Analyses:   
Preservation (See Codes) (Combine as necessary):   
8260  
8270

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	<- Total # of Containers		Requested Turnaround Times
	1001 Tabsoort RD	7-14-15	15:05	Grab	GW	4	X	X	
	TRP Blank					2			

Sample Kit Prepared By:   
Date/Time:   
Comments/Special Reporting Requirements:   
Refiniquished By: EMILY PARRISH  
Date/Time: 7-14-15/16:35  
Received By: *[Signature]*  
Date/Time: 7-15-15 10:30  
Condition Upon Receipt:  Acceptable  Unacceptable  
Cooler #'s & Temps on Receipt: 2, 27C

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)  
Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist