



**Groundwater
& Environmental Services, Inc.**

1350 Blair Drive • Suite A • Odenton, Maryland 21113 • (800) 220-3606 • FAX (410) 721-3733

May 20, 2016

Christine Avig
3914 Madonna Rd
Jarrettsville, MD 21084

Re: Water Filtration System Sampling Information
3914 Madonna Rd, Jarrettsville, MD 21084

Groundwater & Environmental Services, Inc. (GES), on behalf of High's of Baltimore, would like to thank you for your cooperation in allowing us to conduct sampling of your water filtration system on April 28, 2016. The sampling was conducted to evaluate the effectiveness of the granular activated carbon (GAC) filtration system that was installed to treat the water coming into your home.

To help better understand the results, the following information is supplied:

- **Pre-carbon filtration** – water sample of the first, untreated water coming directly into your home; referred to as influent and denoted as “INF” on the laboratory report.
- **Mid-carbon filtration** – water sample collected between the carbon vessels, on the two-train carbon system that was installed; referred to as mid-fluent and denoted as “MID” on the laboratory report.
- **Post-carbon filtration** – water sample of the finished treated water; referred to as effluent and denoted as “EFF” on the laboratory report.

Water samples were collected pre-, mid- and post-carbon filtration and were tested in accordance to USEPA standards for the presence of several petroleum related compounds, including methyl tertiary butyl ether (MTBE). The results from the most recent sampling event demonstrate a detection of MTBE in the influent water of your GAC system at a concentration of 25 micrograms per liter ($\mu\text{g/L}$). For reference, the Maryland Department of the Environment (MDE) action level for MTBE is 20 $\mu\text{g/L}$. There were no petroleum-related compounds, including MTBE, detected in the mid-fluent or effluent water sample from this sampling event. A copy of the laboratory analysis report is attached to this correspondence.

The tests conducted on your drinking water well are part of an ongoing groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department (HCHD). Therefore we would like to continue sampling the water from your drinking water well on a periodic basis while the groundwater investigation is being conducted. We will notify you in advance of the next scheduled sampling event.

If you have any questions concerning this sampling event, please feel free to contact me at 800-220-3606, Ext. 3726. You may also contact Ms. Jeannette DeBartolomeo of the MDE at 410-537-3427.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Peter Reichardt
Project Hydrogeologist

Attachment

c: Jeannette DeBartolomeo, MDE (3 copies & CD)
Peter Smith, HCHD
Herb Meade, CIFIC (e-copy)
Todd Passmore, Apex

Sample Description: 3914 Madonna-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358014
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:10 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3914E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1

Sample Description: 3914 Madonna-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358014
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:10 by JP

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Submitted: 04/29/2016 18:32

Reported: 05/06/2016 15:17

3914E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 16:50	Joshua S Hess	1

Sample Description: 3914 Madonna-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358015
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:15 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3914M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1

Sample Description: 3914 Madonna-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358015
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:15 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr
Odenton MD 21113

3914M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 17:17	Joshua S Hess	1

Sample Description: 3914 Madonna-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358016
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:20 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3914I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	6.1 J	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	25	1.0	10
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1

Sample Description: 3914 Madonna-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358016
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:20 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr
Odenton MD 21113

3914I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 17:44	Joshua S Hess	1
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161251AA	05/04/2016 19:55	Joshua S Hess	10

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



**Groundwater
& Environmental Services, Inc.**

1350 Blair Drive • Suite A • Odenton, Maryland 21113 • (800) 220-3606 • FAX (410) 721-3733

May 20, 2016

Robert Goldstein
3921 Greenpeak Rd
Jarrettsville, MD 21084

Re: Water Filtration System Sampling Information
3921 Greenpeak Rd, Jarrettsville, MD 21084

Groundwater & Environmental Services, Inc. (GES), on behalf of High's of Baltimore, would like to thank you for your cooperation in allowing us to conduct sampling of your water filtration system on April 28, 2016. The sampling was conducted to evaluate the effectiveness of the granular activated carbon (GAC) filtration system that was installed to treat the water coming into your home.

To help better understand the results, the following information is supplied:

- **Pre-carbon filtration** – water sample of the first, untreated water coming directly into your home; referred to as influent and denoted as “INF” on the laboratory report.
- **Mid-carbon filtration** – water sample collected between the carbon vessels, on the two-train carbon system that was installed; referred to as mid-fluent and denoted as “MID” on the laboratory report.
- **Post-carbon filtration** – water sample of the finished treated water; referred to as effluent and denoted as “EFF” on the laboratory report.

Water samples were collected pre-, mid- and post-carbon filtration and were tested in accordance to USEPA standards for the presence of several petroleum related compounds, including methyl tertiary butyl ether (MTBE). The results from the most recent sampling event demonstrate a detection of MTBE in the influent water of your GAC system at a concentration of 24.0 micrograms per liter ($\mu\text{g/L}$). For reference, the Maryland Department of the Environment (MDE) action level for MTBE is 20 $\mu\text{g/L}$. There were no petroleum-related compounds, including MTBE, detected in the mid-fluent or effluent water sample from this sampling event. A copy of the laboratory analysis report is attached to this correspondence.

The tests conducted on your drinking water well are part of an ongoing groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department (HCHD). Therefore we would like to continue sampling the water from your drinking water well on a periodic basis while the groundwater investigation is being conducted. We will notify you in advance of the next scheduled sampling event.

If you have any questions concerning this sampling event, please feel free to contact me at 800-220-3606, Ext. 3726. You may also contact Ms. Jeannette DeBartolomeo of the MDE at 410-537-3427.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Peter Reichardt
Project Hydrogeologist

Attachment

c: Jeannette DeBartolomeo, MDE (3 copies & CD)
Peter Smith, HCHD
Herb Meade, CIFIC (e-copy)
Todd Passmore, Apex



Sample Description: 3921 Greenpeak-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358018
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:10 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3921E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.1	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 3921 Greenpeak-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358018
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:10 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3921E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 18:39	Joshua S Hess	1



Sample Description: 3921 Greenpeak-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358019
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:15 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3921M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.1	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1



Sample Description: 3921 Greenpeak-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358019
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:15 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3921M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 19:05	Joshua S Hess	1

Sample Description: 3921 Greenpeak-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358020
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:20 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3921I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	24	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.1 J	0.1	1

Sample Description: 3921 Greenpeak-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358020
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:20 by JP

GES, Inc.

Suite A

Submitted: 04/29/2016 18:32

1350 Blair Dr

Reported: 05/06/2016 15:17

Odenton MD 21113

3921I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 19:32	Joshua S Hess	1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



**Groundwater
& Environmental Services, Inc.**

1350 Blair Drive • Suite A • Odenton, Maryland 21113 • (800) 220-3606 • FAX (410) 721-3733

May 20, 2016

Sharon Delgado
3922 Greenpeak Rd
Jarrettsville, MD 21084

Re: Potable Well Sampling Results
3922 Greenpeak Rd, Jarrettsville, MD 21084

Dear Ms. Delgado:

Groundwater & Environmental Services, Inc. (GES), on behalf of High's of Baltimore, would like to thank you for your cooperation in allowing us to conduct sampling of your drinking water well on April 28, 2016.

The water sample from your well was tested in accordance to USEPA standards for the presence of several petroleum related compounds including methyl tertiary butyl ether (MTBE). The results from the most recent sampling event demonstrate detections in your well water of MTBE at 7.9 micrograms per liter ($\mu\text{g/L}$). For reference, the Maryland Department of the Environment (MDE) action level for MTBE is 20 $\mu\text{g/L}$. A copy of the laboratory analysis report for this sampling event is attached to this correspondence.

The tests conducted on your drinking water well are part of an ongoing groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department (HCHD). Therefore we would like to continue sampling the water from your drinking water well on a periodic basis while the groundwater investigation is being conducted. We will notify you in advance of the next scheduled sampling event.

If you have any questions concerning this sampling event, please feel free to contact me at 800-220-3606, Ext. 3726. You may also contact Ms. Jeannette DeBartolomeo of the MDE at 410-537-3427.

Sincerely,
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Peter Reichardt', is written over a light blue horizontal line.

Peter Reichardt
Project Hydrogeologist

Attachment

c: Jeannette DeBartolomeo, MDE (3 copies & CD)
Peter Smith, HCHD
Herb Meade, CIFC (e-copy)
Todd Passmore, Apex

Sample Description: 3922 Greenpeak-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358017
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:40 by JP

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Submitted: 04/29/2016 18:32

Reported: 05/06/2016 15:17

3922I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	7.9	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1

Sample Description: 3922 Greenpeak-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358017
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 09:40 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

3922I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 18:12	Joshua S Hess	1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



**Groundwater
& Environmental Services, Inc.**

1350 Blair Drive • Suite A • Odenton, Maryland 21113 • (800) 220-3606 • FAX (410) 721-3733

May 20, 2016

Alan Marvel
3922 Madonna Rd
Jarrettsville, MD 21084

Re: Potable Well Sampling Results
3922 Madonna Rd, Jarrettsville MD, 21084

Dear Mr. Marvel:

Groundwater & Environmental Services, Inc. (GES), on behalf of High's of Baltimore, would like to thank you for your cooperation in allowing us to conduct sampling of your drinking water well on April 28, 2016.

The water sample from your well was tested in accordance to USEPA standards for the presence of several petroleum related compounds including methyl tertiary butyl ether (MTBE). The results from the most recent sampling event demonstrate a detection of MTBE in your well water at a concentration of 6.1 micrograms per liter ($\mu\text{g/L}$). For reference, the Maryland Department of the Environment (MDE) action level for MTBE is 20 $\mu\text{g/L}$. All other constituents were below published MDE and/or EPA Drinking Water Standards, if applicable. A copy of the laboratory analysis report for this sampling event is attached to this correspondence.

The tests conducted on your drinking water well are part of an ongoing groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department (HCHD). Therefore we would like to continue sampling the water from your drinking water well on a periodic basis (currently annual) while the groundwater investigation is being conducted. We will notify you in advance of the next scheduled sampling event.

If you have any questions concerning this sampling event, please feel free to contact me at 800-220-3606, Ext. 3726. You may also contact Ms. Jeannette DeBartolomeo of the MDE at 410-537-3427.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Peter Reichardt', written in a cursive style.

Peter Reichardt
Project Hydrogeologist

Attachment

c: Jeannette DeBartolomeo, MDE (3 copies & CD)
Peter Smith, HCHD
Herb Meade, CIFIC (e-copy)
Todd Passmore, Apex

Sample Description: 3922 Madonna-INF Grab Potable Water
 4101 Norrisville Rd, Jarrettsville, MD
 Carroll Madonna

LL Sample # PW 8358022
 LL Group # 1655866
 Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:40 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

MADIN

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	Bromobenzene	108-86-1	N.D.	0.1	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	1
03648	Bromoform	75-25-2	N.D.	0.2	1
03648	Bromomethane	74-83-9	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	Chloroethane	75-00-3	N.D.	0.2	1
03648	Chloroform	67-66-3	N.D.	0.1	1
03648	Chloromethane	74-87-3	N.D.	0.2	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03648	Dibromomethane	74-95-3	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	6.1	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03648	1,1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.5	0.1	1

Sample Description: 3922 Madonna-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8358022
LL Group # 1655866
Account # 08390

Project Name: Carroll Madonna

Collected: 04/28/2016 10:40 by JP

GES, Inc.

Submitted: 04/29/2016 18:32

Suite A

Reported: 05/06/2016 15:17

1350 Blair Dr

Odenton MD 21113

MADIN

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	1
03648	o-Xylene	95-47-6	N.D.	0.1	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	Carroll Fuels Full VOCs 524.2	EPA 524.2	1	S161241AA	05/03/2016 20:26	Joshua S Hess	1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.