

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

November 19, 2018

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 October 25, 2018. 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:

- <u>Pre-carbon filtration</u> water sample of the first, untreated water coming directly into your home; referred to as influent and denoted as "INF" on the laboratory report.
- <u>Mid-carbon filtration</u> 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.
- <u>Post-carbon filtration</u> 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 1.8 micrograms per liter (μ g/L). For reference, the Maryland Department of the Environment (MDE) action level for MTBE is 20 μ 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 Susan Bull of the MDE at 410-537-3499.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Peter Reichardt

Project Hydrogeologist

Attachment

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



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurolinsUS.com/LancLabsEnv

Sample Description:

3921 Greenpeak-EFF Grab Potable Water

4101 Norrisville Rd, Jarrettsville, MD

Carroll Madonna - High's #130

Project Name:

Carroll Madonna - High's #130

Submittal Date/Time: Collection Date/Time:

10/26/2018 15:40 10/25/2018 09:10 GES, Inc.

ELLE Sample #: PW 9871763 ELLE Group #: 2003049

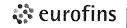
Matrix: Potable Water

| 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 | t-Butyl Alcohol | 75-65-0 | N.D. | 2.5 | 1 |
| 03648 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 1 |
| 03648 | Chlorobenzene | 108-90-7 | 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 | 1,2-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 | 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 | 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 | Styrene | 100-42-5 | N.D. | 0.1 | 1 |
| 03648 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 1 |
| 03648 | Toluene | 108-88-3 | N.D. | 0.1 | 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 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 1 |
| 03648 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 1 |

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

| Laboratory Sample Analysis Record | | | | | | | |
|-----------------------------------|---------------------------|-----------|--------|-----------|---------------------------------------|-------------|-------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution |
| 03648 | VOCs- 25ml Water by 524.2 | EPA 524.2 | 1 | S183091AA | Date and Time 11/05/2018 20:18 | Don V Viray | Factor 1 |



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurolinsUS.com/LancLabsEnv

Sample Description:

3921 Greenpeak-MID Grab Potable Water

4101 Norrisville Rd, Jarrettsville, MD

Carroll Madonna - High's #130

Carroll Madonna - High's #130

Submittal Date/Time: Collection Date/Time:

Project Name:

10/26/2018 15:40 10/25/2018 09:15 GES, Inc.

ELLE Sample #: ELLE Group #:

PW 9871764 2003049

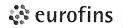
Matrix: Potable Water

| 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 | t-Butyl Alcohol | | 75-65-0 | N.D. | 2.5 | 1 | |
| 03648 | Carbon Tetrachloride | | 56-23-5 | N.D. | 0.1 | 1 | |
| 03648 | Chlorobenzene | | 108-90-7 | 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 | 1,2-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 | 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 | 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 | Styrene | | 100-42-5 | N.D. | 0.1 | 1 | |
| 03648 | Tetrachloroethene | | 127-18-4 | N.D. | 0.1 | 1 | |
| 03648 | Toluene | | 108-88-3 | N.D. | 0.1 | 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 | Vinyl Chloride | | 75-01-4 | N.D. | 0.1 | 1 | |
| 03648 | Xylene (Total) | | 1330-20-7 | N.D. | 0.1 | 1 | |
| | | | | | | | |

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

| Laboratory Sample Analysis Record | | | | | | | |
|-----------------------------------|---------------------------|-----------|--------|-----------|---------------------------|-------------|-------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution |
| 03648 | VOCs- 25ml Water by 524.2 | EPA 524.2 | 1 | S183091AA | 11/05/2018 20:46 | Don V Viray | Factor 1 |



Lancaster Laboratories Environmental

Analysis Report

PW 9871765

2003049

GES, Inc.

ELLE Sample #:

ELLE Group #:

Matrix: Potable Water

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description:

3921 Greenpeak-INF Grab Potable Water

4101 Norrisville Rd, Jarrettsville, MD

Carroll Madonna - High's #130

Project Name:

Carroll Madonna - High's #130

Submittal Date/Time: Collection Date/Time:

10/26/2018 15:40 10/25/2018 09:20

| 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 | t-Butyl Alcohol | | 75-65-0 | N.D. | 2.5 | 1 |
| 03648 | Carbon Tetrachloride | | 56-23-5 | N.D. | 0.1 | 1 |
| 03648 | Chlorobenzene | | 108-90-7 | 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 | 1,2-Dichloroethane | | 107-06-2 | N.D. | 0.1 | 1 |
| 03648 | 1,1-Dichloroethene | | 75-35-4 | | 0.1 | 1 |
| 03648 | cis-1,2-Dichloroethene | | 156-59-2 | | 0.1 | 1 |
| 03648 | trans-1,2-Dichloroethene | | 156-60-5 | | 0.1 | 1 |
| 03648 | 1,2-Dichloropropane | | 78-87-5 | N.D. | 0.1 | 1 |
| 03648 | Ethyl t-Butyl Ether | | 637-92-3 | N.D. | 0.1 | 1 |
| 03648 | Ethylbenzene | | 100-41-4 | | 0.1 | 1 |
| 03648 | di-Isopropyl Ether | | 108-20-3 | N.D. | 0.1 | 1 |
| 03648 | Methyl Tertiary Butyl Ether | | 1634-04-4 | 1.8 | 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 | Styrene | | 100-42-5 | N.D. | 0.1 | 1 |
| 03648 | Tetrachloroethene | | 127-18-4 | 0.1 J | 0.1 | 1 |
| 03648 | Toluene | | 108-88-3 | N.D. | 0.1 | ' 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 | Vinyl Chloride | | 75-01-4 | N.D. | 0.1 | 1 |
| 03648 | Xylene (Total) | | 1330-20-7 | N.D. | 0.1 | , 1 |
| | e compounds have been de | | | Since a | | , |
| | agent blank (trip blank) was | | | | | |
| potenti | al contribution of volatiles fr | om the sampling/t | ransport process | | | |

potential contribution of volatiles from the sampling/transport process cannot be assessed.

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

| | Laboratory Sample Analysis Record | | | | | | | |
|------------|-----------------------------------|-----------|--------|-----------|-----------------------------------|-------------|----------|--|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution | |
| 03648 | VOCs- 25ml Water by 524.2 | EPA 524.2 | 1 | S183091AA | Date and Time 11/05/2018 21:13 | Don V Virav | Factor | |



Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

| BMQL | Below Minimum Quantitation Level | mL | milliliter(s) |
|---------------------|---|--|--|
| С | degrees Celsius | MPN | Most Probable Number |
| cfu | colony forming units | N.D. | non-detect |
| CP Units | cobalt-chloroplatinate units | ng | nanogram(s) |
| F | degrees Fahrenheit | NTU | nephelometric turbidity units |
| g | gram(s) | pg/L | picogram/liter |
| IU | International Units | RL | Reporting Limit |
| kg | kilogram(s) | TNTC | Too Numerous To Count |
| L | liter(s) | μg | microgram(s) |
| lb. | pound(s) | μL | microliter(s) |
| m3 | cubic meter(s) | umhos/cm | micromhos/cm |
| meq | milliequivalents | MCL | Maximum Contamination Limit |
| mg | milligram(s) | | |
| < | less than | | |
| > | greater than | | |
| ppm | parts per million - One ppm is equivalent aqueous liquids, ppm is usually taken to be very close to a kilogram. For gases or va | be equivalent to milli | kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas. |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have be concentration to approximate the value pras-received basis. | een adjusted for mo esent in a similar sa | oisture content. This increases the analyte weight imple without moisture. All other results are reported on an |

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 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.



Lancaster Laboratories Environmental

Data Qualifiers

| Qualifier | Definition |
|----------------|--|
| С | Result confirmed by reanalysis |
| D1 | Indicates for dual column analyses that the result is reported from column 1 |
| D2 | Indicates for dual column analyses that the result is reported from column 2 |
| E | Concentration exceeds the calibration range |
| K1 | Initial Calibration Blank is above the QC limit and the sample result is ND |
| K2 | Continuing Calibration Blank is above the QC limit and the sample result is ND |
| K3 | Initial Calibration Verification is above the QC limit and the sample result is ND |
| K4 | Continuing Calibration Verification is above the QC limit and the sample result is ND |
| J (or G, I, X) | Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL) |
| Р | Concentration difference between the primary and confirmation column >40%. The lower result is reported. |
| P^ | Concentration difference between the primary and confirmation column > 40%. The higher 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. |
| W | The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L. |
| Z | Laboratory Defined - see analysis report |

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.