

SITE INSPECTION SHEET

OWNER: Michael Hasty PHONE #: _____

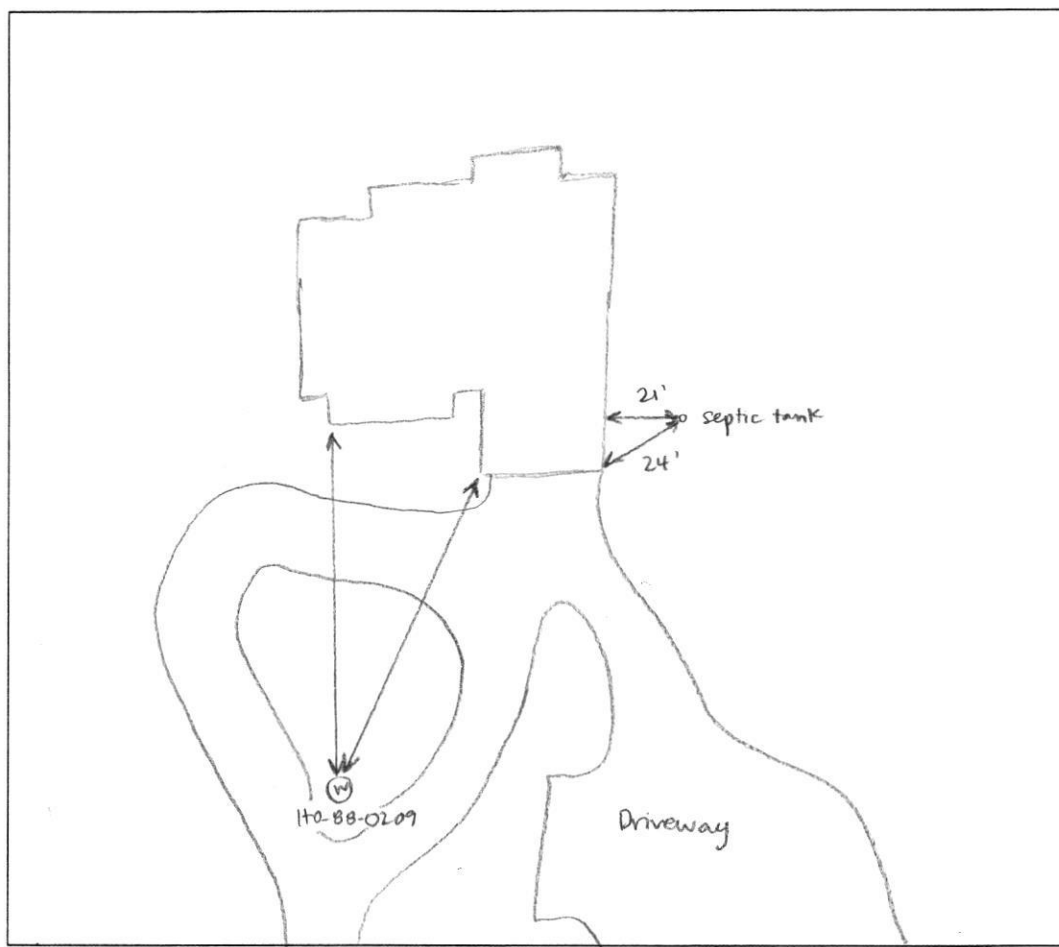
ADDRESS: 12530 Triadelphia Road CONTRACTOR: _____

WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: Well has high levels of road salt contaminants - meet on site with homeowner and Hugh Murphy and David Murray from Risk Management.

LOCATION DIAGRAM



COMMENTS: Homeowner says that contamination started after roadside swale was installed off Triadelphia Road. He has replaced the hot water heater 5x since 2010. Treatment on water is a neutralizer + softener from Water Doctor.

DATE: 12/7/18 INSPECTOR: Sarah Collins

Maura J. Rossman, M.D., Health Officer

January 9, 2019

Michael Hasty
12530 Triadelphia Road
Ellicott City, MD 21042

Dear Mr. Hasty,

Ho-88-0209

The Health Department received results from testing for sodium, chloride, total dissolved solids (TDS), calcium, iron, and magnesium from your well water.

Elevated sodium levels in drinking water could affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); **sodium from your well measured 250.30 mg/L untreated, 394.20 mg/L after water softener treatment, and 72.19 mg/L after water softener and point-of-use reverse osmosis treatment.** It is expected to see higher levels of sodium post water softener treatment as the system uses sodium chloride as an exchange medium. The point-of-use reverse osmosis treatment is partially effective at removing sodium from the water.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from your well measured 558 mg/L untreated, 561 mg/L after water softener treatment, and 113 mg/L after water softener and point-of-use reverse osmosis treatment.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 975 mg/L untreated, 978 mg/L after water softener treatment, and 208 mg/L after water softener and point-of-use reverse osmosis treatment.** The point-of-use reverse osmosis treatment is effective at reducing chloride and TDS levels to below the secondary maximum contaminant level.

Calcium, iron, and magnesium samples were collected from the pre-treatment tap. **Calcium measured 52.37 mg/L, iron measured <0.1 mg/L, and magnesium measured 29.9 mg/L.** There are no established contaminant levels for calcium and magnesium; the secondary maximum contaminant level for iron is 0.3 mg/L.

Please contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,



Sarah Collins, L.E.H.S.
Howard County Health Department
Well & Septic Program
SCollins@howardcountymd.gov
410-313-6287

Cc: David Murray & Hugh Murphy, Howard County Risk Management Office
Community Hygiene Program
File



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TRACE METALS LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
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Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

*PRESSURE TANK
NO TREATMENT*

Lab Project No: E19001819 Date Coll.: 12/07/2018 Date Received: 12/07/2018 Submitted By: Collins

Field ID: 12530 SC-A
Lab No.: E19001819001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Calcium	52.37	ppm	12/10/2018
EPA 200.7	Iron	<0.100	ppm	12/10/2018
EPA 200.7	Magnesium	29.9	ppm	12/10/2018
EPA 200.7	Sodium	250.30	ppm	12/10/2018

Comments:

Approved by: Sadia Muneer

Approval date: 12/11/2018

**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.



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8930 STANFORD BLVD
COLUMBIA, MD 21045

*PRESSURE TANK
NO TREATMENT*

Lab Project NoE19001821 Date Coll. 12/07/2018 Date Received 12/07/2018 Submitted By: S. Collins

Field ID: 12530 SC-A
Lab No.: E19001821001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	558	mg/L	12/10/2018
Total Dissolved Solids	SM 2540C	975	mg/L	12/11/2018

Comments:

Approved by:

Shahen Aveli

Approval date: 12/19/2018

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.

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HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

*BASEMENT UTILITY SINK
SURTENER*

Lab Project NoE19001821 Date Coll. 12/07/2018 Date Received 12/07/2018 Submitted By: S. Collins

Field ID: 12530 SC-B
Lab No.: E19001821002

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	561	mg/L	12/10/2018
Total Dissolved Solids	SM 2540C	978	mg/L	12/11/2018

Comments:

Approved by:

Shahin Amini

Approval date: 12/19/2018

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8930 STANFORD BLVD
COLUMBIA, MD 21045

*BASEMENT UTILITY Sink
SOFTENER*

Lab Project No: E19001820 Date Coll.: 12/07/2018 Date Received: 12/07/2018 Submitted By: Collins

Field ID: 12530 SC-B
Lab No.: E19001820001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	394.20	ppm	12/10/2018

Comments:

Approved by: Sadia Muneeb

Approval date: 12/11/2018

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HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

*BASEMENT KITCHEN SINK
SOFTENER / RO*

Lab Project No: E19001820 Date Coll.: 12/07/2018 Date Received: 12/07/2018 Submitted By: Collins

Field ID: 12530 SC-C
Lab No.: E19001820002

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	72.19	ppm	12/10/2018

Comments:

Approved by:

Sadia Muneer

Approval date: 12/11/2018

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HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

*Basement Kitchen Sink
Softener / H₂O*

Lab Project NoE19001821 Date Coll. 12/07/2018 Date Received 12/07/2018 Submitted By: S. Collins

Field ID: 12530 SC-C
Lab No.: E19001821003

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	113	mg/L	12/10/2018
Total Dissolved Solids	SM 2540C	208	mg/L	12/11/2018

Comments:

Approved by:

Shahen Aveli

Approval date: 12/19/2018

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