

C1 0716

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 8/3/07

DEPTH OF WELL 500

PERMIT NO. HO-95-1113

OWNER Lee Development Group Inc STREET OR RFD Mica Ct TOWN West Friendship SUBDIVISION Terrapin Creek SECTION LOT 13

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Topsoil, Brown rocky clay, Mica, Tan mica, Green mica, Gray mica.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS 21, NO. OF POUNDS 2100, GALLONS OF WATER 126, DEPTH OF GROUT SEAL 67 ft.

CASING RECORD: casing types insert appropriate code below (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter top (main) casing 6, Total depth of main casing 91 ft.

OTHER CASING (if used) diameter inch, depth (feet) from to

SCREEN RECORD: screen type or open hole (ST, BR, HO, PL, OT), insert appropriate code below

DEPTH (nearest ft.) table with rows 1-5 and columns 8-11, 15-17, 23-26, 30-32, 38-41, 45-47, 51. Includes SLOT SIZE and DIAMETER OF SCREEN.

PUMPING TEST: HOURS PUMPED 3, PUMPING RATE 7.5 gal. per min., METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL 32 ft. BEFORE PUMPING, 173 ft. WHEN PUMPING, TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (29), CAPACITY: GALLONS PER MINUTE 31-35, PUMP HORSE POWER 37-41, PUMP COLUMN LENGTH 43-47, CASING HEIGHT 2 (nearest foot).

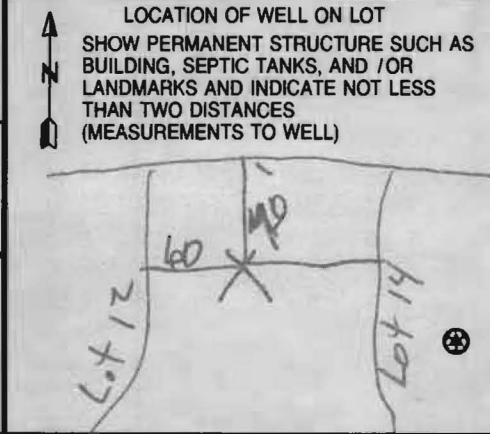
NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A (well abandoned), E (electric log obtained), P (test well converted to production well)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. MWD 040, DRILLERS SIGNATURE George F. Kestel, LIC. NO. IWD 727, SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68, MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q, TELESCOPE CASING LOG INDICATOR OTHER DATA



B 1 3206

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 526268

STATE PERMIT NUMBER

140-95-1113 fill in this form completely

Date Received (APA) 3/6/07

OWNER INFORMATION 10503

Lee Development Group Inc 8601 Georgia Ave, Suite 200 Silver Spring, Md 20910

B 3

LOCATION OF WELL

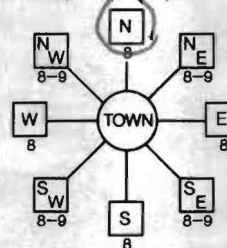
Howard COUNTY Terrapin Creek West Friendship NEAREST TOWN MILES FROM TOWN 1

DRILLER INFORMATION

George F. Easterday M WD 040 L Franklin Easterday, Inc. 9265 Brown Church Rd., MT. Airy, Md. 21771

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Milo Court NEAR WHAT ROAD ON WHICH SIDE OF ROAD DISTANCE FROM ROAD TAX MAP: 15 BLK: 5 PARCEL 12

B 2

WELL INFORMATION

APPROX. PUMPING RATE 5 AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME A520108 COUNTY NO. STATE SIGNATURE DATE ISSUED 4/30/07 CO SIGNATURE EXP. DATE 4/30/08

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

AIR-ROTARY JETTED Jetted & DRIVEN CABLE REVerse-ROTary DRive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEAN AN EXISTING WELL

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

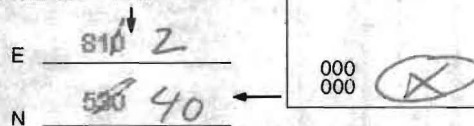
APPROX. PERMIT NUMBER H02006G011 PERMIT No. 140-95-1113

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- 1. wells 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE



DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



WEST FRIENDSHIP

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED





RECEIVED

JUN 20 2016

HOWARD COUNTY HEALTH DEPT.  
COMMUNITY HYGIENE PROGRAM

not 100%

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648  
313-1771

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: ATLANTIC BLUE, LLC Telephone #: 410-840-8112  
Address: 75 ALLYSON CT, SUITE 7  
WESTMINSTER, MD 21157

(Must circle one) Licensed Plumber      Licensed Well Driller      Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): MARY MAHON License# 63797

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: LEP DEVELOPMENT Telephone #: \_\_\_\_\_  
Subdivision: TERRAPIN TRAIL Lot #: 13 Well Tag #: HO-95-1113 ✓  
Site Address: 12714 MILLO CT.  
SYKEVILLE, MD 21784

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>SPASS</u>	Make: <u>UMPIX 11</u>	Two piece watertight cap: ✓
Model #: <u>SP5231</u>	Model#: _____	Screened, vented well cap: ✓
Pump Capacity <u>7</u> GPM	Depth: <u>42"</u> (36" min)	Cap secured to casing: ✓
Well Yield: <u>7.5</u> GPM	NSF approved: ✓	Conduit min 18" B.G.: ✓
Depth of well encountered at time of pump installation: <u>500</u> (feet)		Conduit secured to well cap: ✓

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt \_\_\_\_\_

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>POLY</u>	PVC sleeved to undisturbed soil at wall penetration: ✓
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve: <u>2'</u>
Depth of supply line: <u>42</u> (36" min)	Sleeve caulked and sealed properly: ✓

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

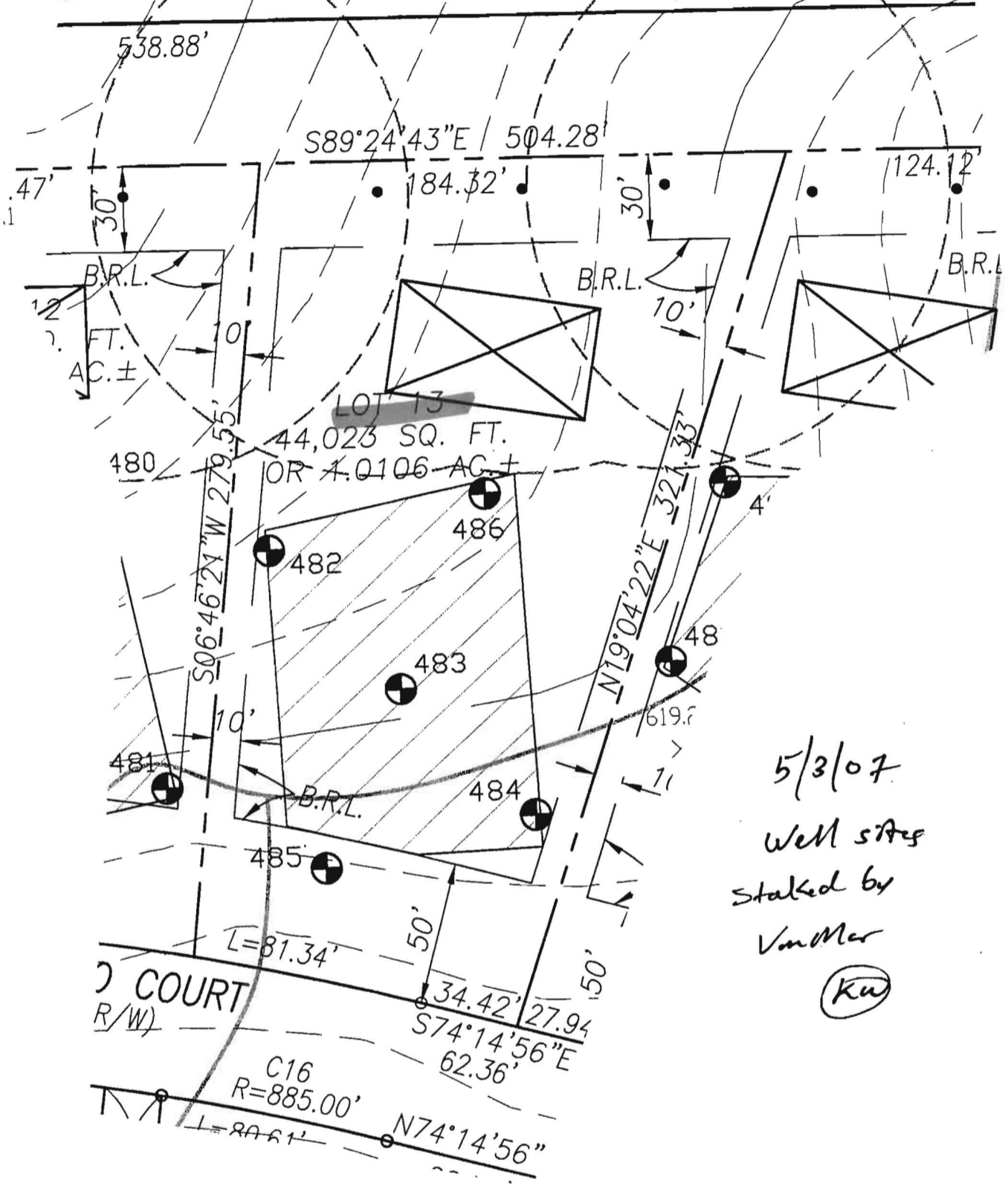
[Signature]      6/20/16  
Signature of company representative responsible for installation      date

For Health Department Use Only - Not to be completed by Installer

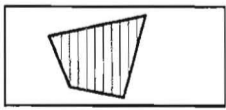
Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 6/17/2016 (88)  
Inspection Data: Pitless adapter and water supply line at least 36" below grade ✓  
Two piece cap installed and attached to casing securely ✓  
Elec. conduit extends at least 18" below grade/attached to cap properly ✓  
Safety rope installed inside of well casing ✓  
Correct well tag attached properly and casing 8" above finished grade ✓  
Water supply line sleeved adequately at house connection ✓  
Adequate grout observed below pitless adapter ✓

HD-215 (Rev. 8/00)

P. 72  
 AGRICULTURAL LAND PRESERVATION PROGRAM  
 PERMIT NO. 95-04-E



5/3/07  
 Well sites  
 staked by  
 VanMer  
 (Ku)



THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT  
 OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY  
 MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR  
 INDIVIDUAL SEWERAGE DISPOSAL.

IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC  
 SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID  
 UPON CONNECTION TO PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER  
 SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS.  
 RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

(PASSED) PERCOLATION TEST SITE:

(FAILED) PERCOLATION TEST SITE:

EXISTING WELL:

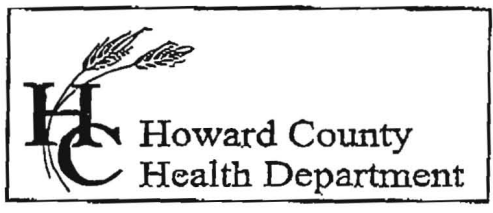
PROPOSED HOUSE SITE:

PROPOSED WELL SITE:

## WELL SITE PLAN LOT 13 TERRAPIN CREEK (FORMERLY SCHWABE FARM)

PART OF THE LANDS CONVEYED TO LDG, INC. BY DEED RECORDED IN  
 LIBER 1988 AT FOLIO 258

TAX MAP: 15; GRID: 4 & 5; PARCELS: 12 & 43  
 SITUATED ON SYKESVILLE AND LIVESTOCK ROAD  
 ELECTION DISTRICT No. 3, HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 50' APRIL, 2007



7178 Columbia Gateway Drive, Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location: *Pres A*  
TERRAPIN Creek 1-22 TERRAPIN Creek Drive & MILD COURT  
Subdivision/Property Name Lot# Road Name

The well site has been staked by VAN MAR ASSOCIATES INC  
(professional land surveyor or company employing professional land surveyors)  
on 3-9-07 (date) and does not require a site inspection.

*No later than*

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

*Lee DEVELOPMENT GROUP*

*Hale*  
*Schwabe Farm*



# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

## REPORT OF ANALYSIS

Laboratory ID #: 110656 Account #: 1045  
Reference: Terrapin Creek Lot 13 Company: Atlantic Blue Water Services  
Location: 12714 Milo Court Requested By: Mark Mather  
Sykesville, MD 21784 Source: Well Water  
Date/ Time Collected: 10/12/2016 1430 Site: Well Tank  
Date/Time Rec'd: 10/13/2016 1124 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 6.7  
Collected By: F. Mason 4112FM Well #: HO-95-1113

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	10/14/2016 / 0945 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	10/14/2016 / 0945 / LLO
Nitrate	1.76	mg/L	10	601	10/14/2016 / 0940 / CCH
Turbidity	3.03	NTU	<10	SM18 2130B	10/14/2016 / 1000 / CCH
Sand	NS	mg/L	5	Visual/Gravimetric	10/14/2016 / 1000 / CCH

OK

### NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 pH and Chlorine level tested in lab
- 9 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy  
Building Permit # : B15003899

Date Reported: 10/14/2016



Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045  
Main: 410-313-2640 | Fax: 410-313-2648  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)

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

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July 28, 2017

Catonsville Homes  
11175 Stratfield Court  
Marriottsville, MD 21104

Re: 12714 Milo Court water samples

Dear Catonsville Homes,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) 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 4.15 mg/L.**

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 you well measured <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 115 mg/L.**

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

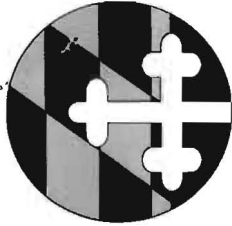
Sincerely,

A handwritten signature in cursive script that reads 'Sarah Collins'.

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

Cc: File





State of Maryland  
Department of Health  
Laboratories Administration  
Division of Environmental Sciences  
**INORGANICS ANALYTICAL LABORATORY**  
1770 Ashland Avenue, Baltimore, Maryland 21205  
Robert Myers, Ph.D., Director



## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
8930 STANFORD BLVD  
COLUMBIA, MD 21045

Lab Project NoE18000210 Date Coll. 07/18/2017 Date Received 07/19/2017 Submitted By: S. Collins

Field ID: HO-95-1113  
Lab No.: E18000210001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	07/21/2017
Total Dissolved Solids	SM 2540C	115	mg/L	07/21/2017

### Comments:

Approved by: *Shahla Amini*

Approval date: 07/26/2017

\*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.

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) 767-6190 and arrange for return or destruction.

Send Report To: Bert Nixon  
Howard Co. Health Dept.  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**TRACE METALS LABORATORY**  
1770 Ashland Avenue  
Baltimore, Maryland 21205

  
**E18000213001**  
Received: 07/19/2017  
Metals HO-95-1113

Do not write above this line

**LABORATORY ANALYSIS REQUEST**

Please Print

Sample ID No: HO-95-1113 Site Name: Terrapin Creek - Lot 13 County: Howard

Sample Source: 12714 Mile Ct West Friendship Collector: S. Collins  
Street Town or City Name

Date Collected: 7/18/2017 Time Collected: \_\_\_\_\_ a.m. 1 p.m. Phone #: 410-313-6287

Sample Preserved By:  Field  ESRL  WMRL  Central Lab  
Preservative Used:  HNO<sub>3</sub> \_\_\_\_\_ mL pH: 2

Sample Type:  Drinking Water  Landfill  Source (Raw Water)  Liquid  
Data Category:  Community  Stream  Distribution (Treated)  Solid  
Code  Non-Community  Sediment  Other \_\_\_\_\_  
 Private

Specify Program:  SDWA  NPDES  CWA  RCRA  Consumer Products  Other \_\_\_\_\_

Type of Sample Preparation:  Total Metals  Total Metals TCLP  Dissolved Metals  
(field preparation required)

Remarks: Sample collected from outdoor hose bib - sediment filter treatment.

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na) <u>SHV</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: \_\_\_\_\_

Date Reported: \_\_\_\_/\_\_\_\_/\_\_\_\_

•Phone: (443) 681-3857

•Fax: (443) 681-4507



State of Maryland  
Department of Health  
Laboratories Administration  
Division of Environmental Sciences  
**TRACE METALS LABORATORY**  
1770 Ashland Avenue, Baltimore, Maryland 21205  
Robert Myers, Ph.D., Director



## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
8930 STANFORD BLVD  
COLUMBIA, MD 21045

Lab Project No: E18000213    Date Coll.: 07/18/2017    Date Received: 07/19/2017    Submitted By: Collins

Field ID: HO-95-1113  
Lab No.: E18000213001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	4.15	ppm	07/21/2017

### Comments:

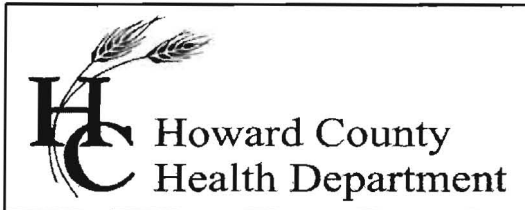
Approved by:

*Sadia Muneer*

Approval date: 07/26/2017

\*\*The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

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.



## Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045  
Main: 410-313-2640 | Fax: 410-313-2648  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

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

### INTERIM CERTIFICATE OF POTABILITY

Expiration Date – NOVEMBER 17, 2017

March 17, 2017

Homeowner  
12714 Milo Court  
Sykesville, MD 21784

**RE: Terrapin Creek, Lot 13**  
**12714 Milo Court**  
**Building Permit: B15003899**  
**Well Permit: HO-95-1113**

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **5/16/2017**. Final approval of the well line connection to the dwelling was granted on **6/17/2016**. The well construction was completed on **8/3/2007**. Water samples were collected on **10/12/2016**.

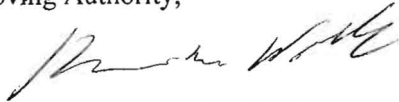
The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1113. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. Along with submission of a second bacteriological test, turbidity and Iron must also be tested pre and post treatment. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:  
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "[Homeowner Fact Sheet](#)" which illustrates a better understanding for your Best Available Technology (BAT). You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your BAT.

Approving Authority,



Kevin M. Wolf, L.E.H.S., REHS/RS, Supervisor  
Groundwater Management Section  
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits  
Community Hygiene Program  
File