

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 554393-A

AGENCY REVIEW: \_\_\_\_\_

DATE 9-30-15

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) PATRICIA SULLIVAN

DAYTIME PHONE 443-717-2856 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 3010 N RIDGE RD, UNIT C703 ELLICOTT CITY, MD 21043  
STREET CITY/TOWN STATE ZIP

APPLICANT ROBERT H. VOGEL ENGINEERING, INC

DAYTIME PHONE 410-461-7606 CELL \_\_\_\_\_ FAX 410-461-8961

MAILING ADDRESS 8407 MAIN STREET ELLICOTT CITY MD 21043  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME SULLIVAN PROPERTY LOT NO. 2

PROPERTY ADDRESS 13185 & 13183 HIGHLAND ROAD HIGHLAND 20777  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 0034 005 0237 PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE 41,799 SF  
0040 004 0188

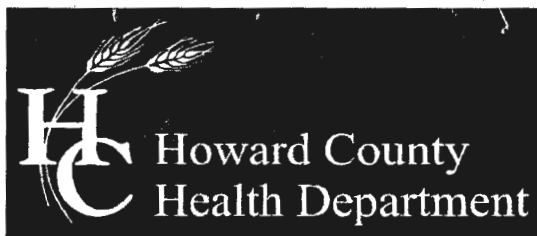
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Megan Ruggieri  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH





## Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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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**

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November 19, 2015

To: Pat Sullivan [prsifs@gmail.com](mailto:prsifs@gmail.com)  
Mike Sullivan [mike.sullivan@cbre.com](mailto:mike.sullivan@cbre.com)  
Robert H. Vogel Engineering, LLC [rvogel@vogeleng.com](mailto:rvogel@vogeleng.com)

### **RE: Percolation Test Report; 13183 & 13185 Highland Road**

Percolation tests were conducted at 13183 & 13185 Highland Road (Tax Map 34, Parcel 188 & 237) on November 17-18, 2015. Tests and/or profile descriptions were documented for 21 locations (100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 112, and new test hole B (133). Test holes 122 - 125, 128 and 129 were not tested because they were either located within or immediately adjacent to wet season soil. Test hole #121 and newly proposed test holes A, C, D, and E weren't considered good candidates for testing because they were either located downslope or in between previously tested holes that did not pass.

Percolation test holes 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 127 and 130 **passed**. Percolation test holes 117, 118, 119, 120, 131 and B **failed** due to poor soil profiles (i.e. rock and high clay content) and/or slow percolation rates.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the sewage disposal area are represented by test locations having satisfactory soil condition. The area must be large enough to accommodate 3 systems for the planned residence.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the septic reserve area.

Should you have any questions regarding this evaluation please contact me. I may be reached at (410) 313-1786 or by email [hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

Respectfully,

*Hank Oswald*

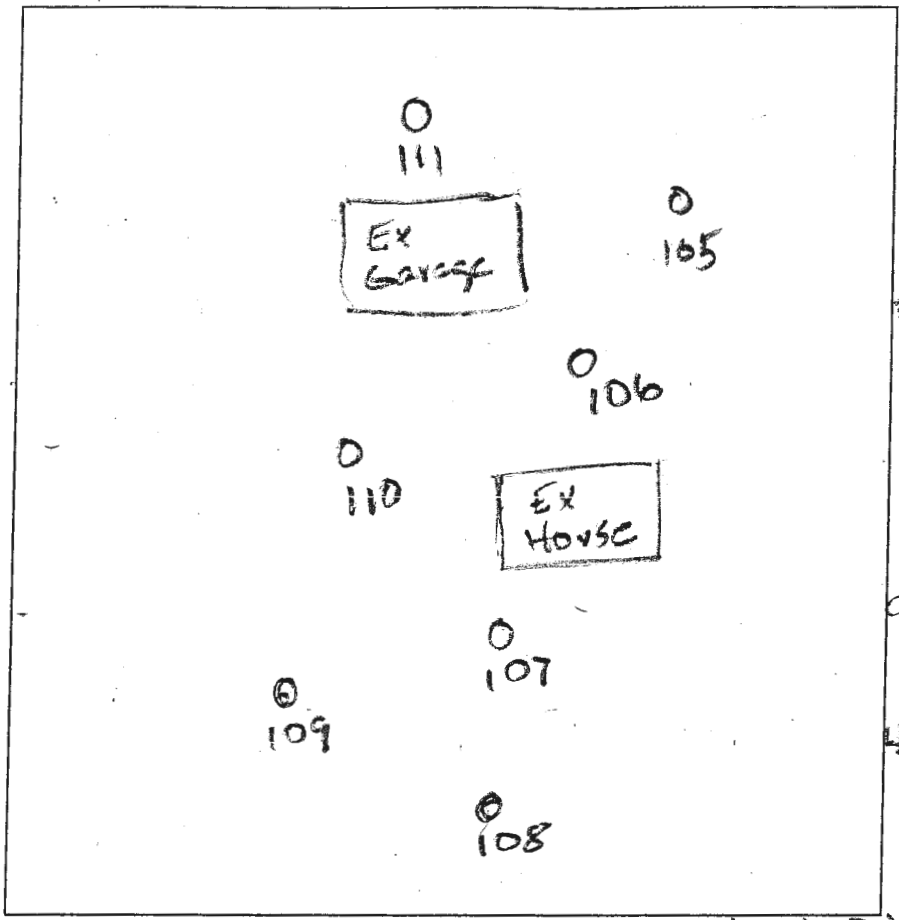
Hank Oswald, L.E.H.S  
Bureau of Environmental Health  
Well & Septic Program

A/P

Hole # 110  
 0.4' - brn L  
 4" - or scl  
 Yel tan sl  
 many mica  
 20% rock  
 12' - hard bottom  
 dry

Hole # 107  
 0.3' - brn L  
 red cl  
 mica  
 5' - 4.5 L  
 many mica  
 5-10% rock  
 12' - dry

Hole # 108  
 0.6' - gravel / brn R  
 red cl  
 mica  
 pale red sl  
 many mica  
 12' - dry



Hole 109  
 0.7' - gravel (drive) brn R way  
 red cl  
 many mica  
 5-10%  
 3.5' - tan SL  
 10' - 30-40% rock  
 12' - dry

111  
 0.7' - brn L  
 gravel scl  
 4.5' - mica  
 6' - sl  
 7' - or R  
 sl  
 platy  
 12' - dry

105 = 106  
 - brn L  
 or R  
 scl  
 3.5' - pale red sl  
 8' - platy  
 12' - hard bottom  
 dry

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/17/15	110	4.0/12	11:47	12:11	12:34	23	P
11/17/15	107	6/12	11:53	11:58	12:06	8	P
11/17/15	108	6.0/12	12:23	too	slow		
11/17/15	109	4.6/12	12:42	12:49	1:00	11	P
11/18/15	reshelf 108	7'/12	8:00	8:20	8:44	24	P
11/18/15	111	5.9/12	8:29	8:36	8:55	19	P
11/18/15	105	5/12	8:01	8:03	8:05	2	P
11/18/15	106	5.8/12	8:48	8:52	8:56	4	P

REMARKS Lot 2  
 SANITARIAN Hank Oswald BACKHOE Freedom Septic OTHERS Owner & Sons  
 TEST HOLES USED IN SDA Dan & Tyler AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_