

Bureau of Environmental Health

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

Date: June 19, 2014

To: Nathan Brandenburg, Toll MD III LP
nbrandenburg@tollbrothersinc.com

From: Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Sanitarian II, Well and Septic Program
Howard County Bureau of Environmental Health

RE: B14001553, 'On Hold'; BAT Plan/Plot Plan revision or Percolation Certification Plan
Revision required

The stormwater management facility identified as "landscape infiltration" and the associated "observation well" are located inappropriately relative to the approved sewage disposal area (SDA) that is to serve the subject property. There must be at least 25 feet separation from the stormwater management facility to either the SDA or the BAT unit.

The issue may be resolved by

- a. revising the Bat Site Plan and the Plot Plan submitted with the Building Permit Application (B14001553), or
- b. an alternative would be to submit a revision of the Percolation Certification Plan directly to the Bureau of Environmental Health.

Should you have any questions concerning this matter, you may contact me by 'Reply' to email, or by calling 410-313-2691.

Copy: Mike Boyce, mboyce@eseeng.com
file

Williams, Jeffrey

From: Michael Boyce [MBOYCE@eseeng.com]
Sent: Friday, April 25, 2014 3:19 PM
To: Williams, Jeffrey
Subject: RE: Homewood lot 77

That is undesirable for a few reasons

- 1) Cost- installing pipe on steep slope is not advisable.
- 2) Velocity of the water down the pipe that steep would mean additional measures at the daylight to control that.
- 3) The intent of the devise is to recharge ground water, having an underdrain defeats the purpose of installing the system

I don't have the perc information but we are talking about 420 CF of water during a 2 year storm event. (1" rain fall in 24 hours) I do not know how fast / much water travels through the soils, or how long it stays there, but the device is supposed to be empty in 48 hours. My understanding is it travels through the soil along the contours as it would on the surface.

These lots are not designed to have these devises, there is no good way to do this, I am just trying to pick the most economical and practical solution I can. The clay core we discussed would be preferable to disturbing the steep slopes.

Michael Boyce

Regional Director

ESE Consultants, Inc.

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P : 410-381-3058 | C: 410-365-4175

mboyce@eseeng.com

From: Williams, Jeffrey [mailto:jewilliams@howardcountymd.gov]
Sent: Friday, April 25, 2014 3:05 PM
To: Michael Boyce
Subject: Homewood lot 77

I talked it over with Mike. Our concern is with situations where the infiltrative device is uphill and close to the septic trenches where the water can infiltrate into the trenches and flood them.

Is it possible to make this a lined devise with an outfall pipe leading down to the bottom of the lot? Or, is it possible to move the whole thing down to the bottom of the lot?

I will be off next week, so we can touch base when I get back on 5/6, or you can talk to Mike in the meantime. Thanks.

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

jewilliams@howardcountymd.gov

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Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, March 13, 2014 11:57 AM
To: 'Michael Boyce'
Subject: RE: Septic data sheets

Here is data for the lots in question. I am working on a new form to provide this data, but for now here are the numbers. You can plug them into the following equations:

#of bedrooms x 150gpd / application rate = square footage absorption area needed. Divide by width of trench used to get linear length of trench needed

Sidewall credit: $(W+2)/(W+1+2D) \times 100$, where W is width of trench and D is depth in feet between effective depth and bottom depth.

Meriwether lot 5: app rate-0.6, effective depth-4', bottom-5.5'

Homewood Xing lot 71: app rate-1.2, eff depth-5', bottom-8'

Edgewood Farm lot 57: app rate-0.8, eff depth-5', bottom-8'

Meriwether lot 24: app rate-1.2, eff depth-4', bottom-6'

Homewood xing lot 77: app rate-1.2, eff depth-4.5', bottom-7'

Homewood xing lot 44: *****This lot has a condition to put the initial septic system in the farthest part of the area from the wells on lots 66 and 67*****

App rate-0.6, eff depth-7', bottom-8'

From: Michael Boyce [mailto:MBOYCE@eseeng.com]
Sent: Thursday, March 13, 2014 9:27 AM
To: Williams, Jeffrey
Subject: Septic data sheets

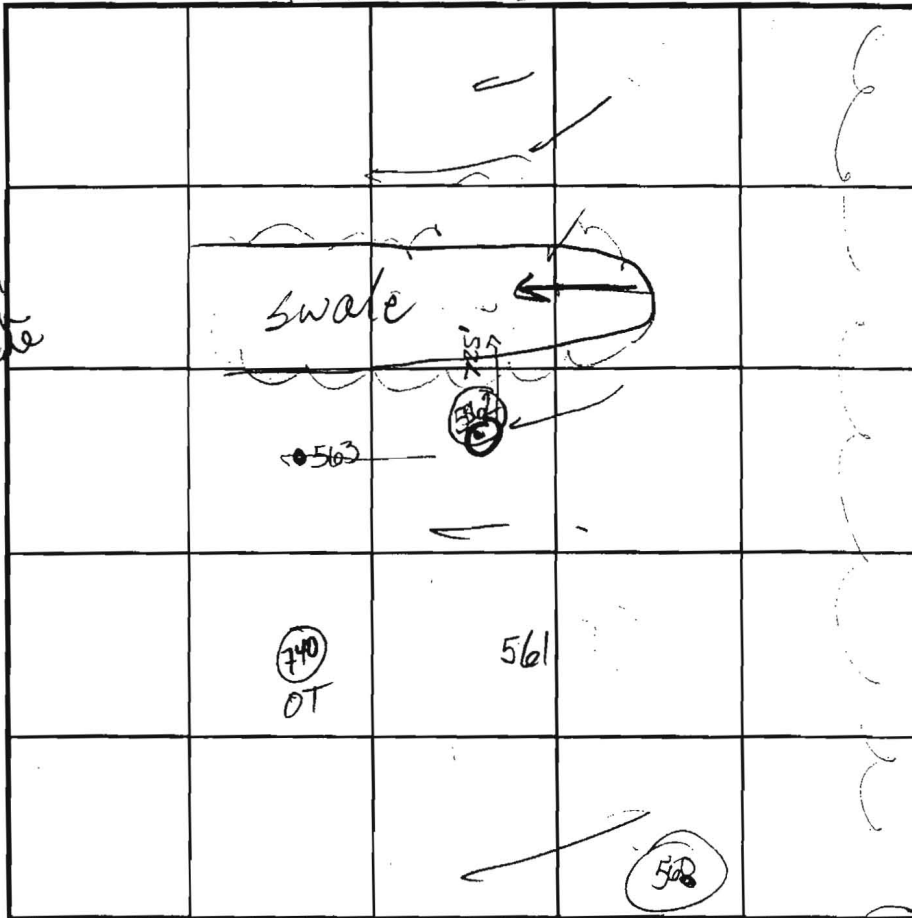
Reminder to send the data sheets from the list I dropped off on Tuesday.

thanks

Michael Boyce
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HOMEWOOD

COUNTY #



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE
560
TOPSOIL
Heavy DK Rd Brn Loam
4'3"
Brn tan
SAND LM
Rock Frag 35-45%
12' Refusal

HOLES PER PLAN

SOIL PROFILE
562
0' TOPSOIL
4'6" Brn tan Si Cl Lm
7' Rd brn H tan brn, dk brn off-white
Si Lm
Rock Frag < 5%
14 1/2' Bottom

SOIL PROFILE
563
4'6" TOPSOIL
Hvy Brn tan loam
Rock Frag 5-10%
5-5 1/2' brn beige SA LM micaceous
Rock Frag 5-10%
13' Bottom

SOIL PROFILE
561
4'6" TOPSOIL
Hvy Brn, Rd Loam Brn
4-4 1/2' micaceous lt beige white tan SA LM
Rock Frag 5-10%
14 1/2' Bottom

DATE	TEST NO.	DEPTH	PRE-WET		TEST 1" DROP		TIME
			START	STOP	START	STOP	
9/26/01	562	6'2" S 14 1/2' D	11:49	Less than	1" in 30 min.		Fail
							Fail
	P 563	6'5" 13' D	12:00	12:04	12:04	12:10	6 min PASS
	P 561	5'10" S 14 1/2' D	12:13	12:15	12:15	12:20	5 min PASS
	P 560	4'6" S 12' Refusal	12:25	12:26	12:26	12:29	3 min MARGINAL
	F 559	Refusal @ 9 1/2'					FAIL

REMARKS #562 SHELF IN RD CLAY pocket on S. side Along w/ north. OKAY ON
TYPE OF SOIL #559 Excessive Rock Frag, Hvy loam, dk brn, dk rd brn
TESTED BY Goedeking ALSO PRESENT Chuck C
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

HOLES PER PLAN

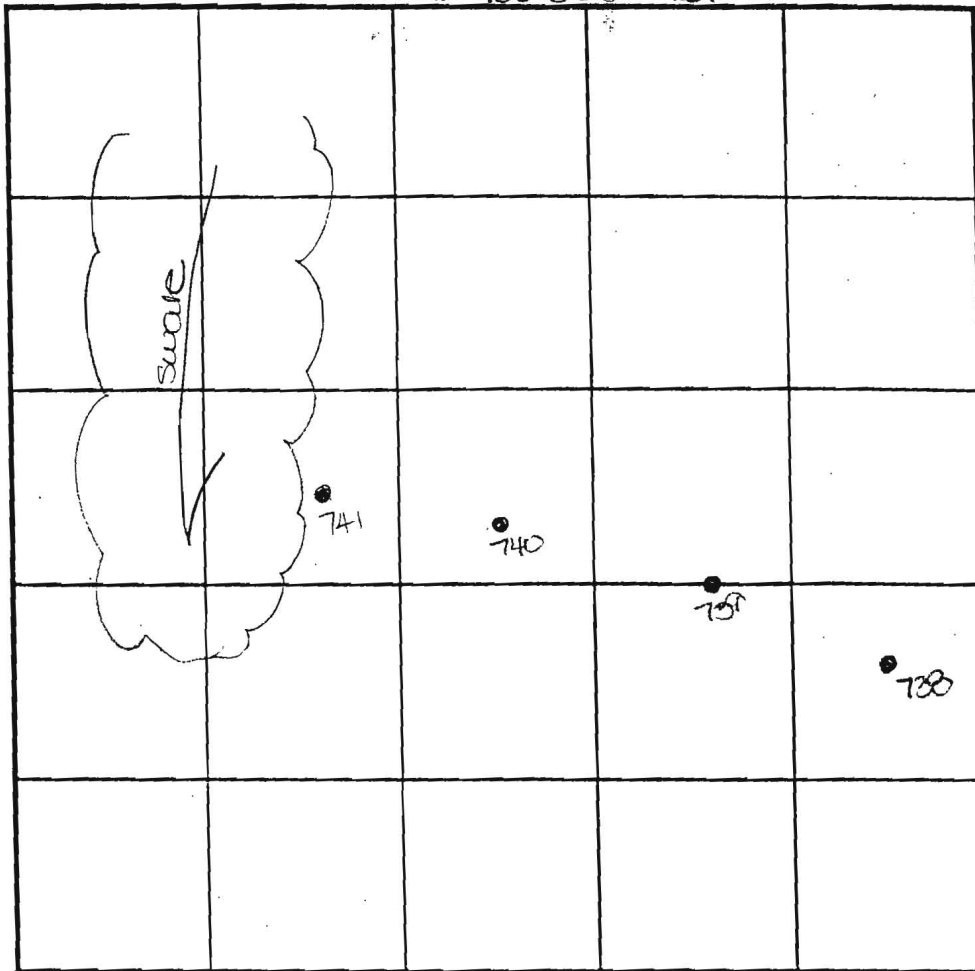
Homewood Rd.

COUNTY #

SOIL PROFILE

738

0' topsoil
 3.5' red org
 bm
 cl lm
 red brn
 sl cl lm
 to
 brn
 si mica
 lm
 35%+
 rock
 4'



SOIL PROFILE

741

0' topsoil
 1' dull
 org brn
 cl lm
 5.5'
 6'
 14' brn
 si mica
 lm
 15%
 rock
 13' water

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

2' 739
 1' topsoil
 3.5' org brn
 sl cl lm
 4' tan
 si mica
 lm
 15%
 rock
 15'

2' 740
 1' topsoil
 3.5' pale
 brn
 si mica
 lm
 10-15%
 rock
 3.5'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6-12-01	738	5.5' S	1:13	1:14	1:14	1:16	2
		14.0' D	visual	- see	profile		OK
	739	5.5' S	1:16	1:18	1:18	1:21	3
		15.0' D	visual	- see	profile		OK
	740	5.5' S	1:23	1:24 ₃	1:24 ₃	1:28	4
		13.5' D	visual	- see	profile		OK
	741	6.0' S	1:25 ₃	1:27	1:27	1:29	2
		13.0' D	water	- see	profile		FAIL

REMARKS

TYPE OF SOIL _____
 TESTED BY DKC DUE TO DROUGHT CONDITIONS,
 TRENCH DESIGN DATA: FEET FROM OBSERVED
 INLET DEPTH PROPOSED SEPTIC SYSTEM APPROVABLE HOLES MUST HAVE 8

30 PRESENT M. Johnson & CRE
 OWNERS
 TRENCH WIDTH _____
 3 FT/BEDROOM