

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 555807

AGENCY REVIEW: _____

DATE 4-13-15

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 4 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) BRIGESH & UTPALA VYAS

DAYTIME PHONE (301) 305-0952 CELL (301) 305-0952 FAX _____

MAILING ADDRESS 7304 HOPKINS WAY CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT SCOTT SHANBERGER

DAYTIME PHONE (410) 461-9563 CELL _____ EMAIL home@shanklane.com

MAILING ADDRESS SHANBERGER & LANE, ETC TOWN & COUNTRY BLDG, SUITE 201, EURETT CITY, MD 21088
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME WILLOW HIGHLANDS AT WILLOW SPRINGS GOLF COURSE LOT NO. 13

PROPERTY ADDRESS WILLOW SPRINGS DRIVE SYLVESVILLE, MD, 21784
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 15 GRID 4 PARCEL(S) 45 PROPOSED LOT SIZE 3,535 SQ FT

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.

[Signature]
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

AP _____

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DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

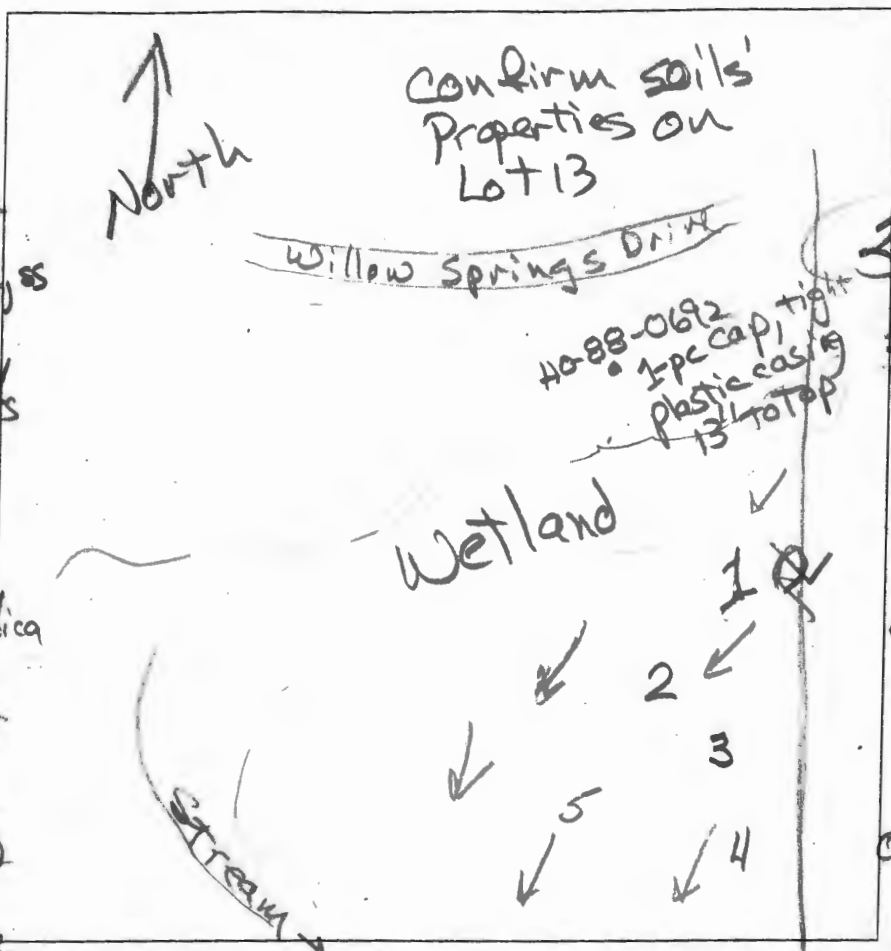
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

RECEIVED
APR 13 2015
 HOWARD COUNTY HEALTH DEPT.
 SANITATION ENGINEER

5

AP



1' dk brn L, 2v fskbk
brn L, 2 fskbk

2.5' brn L, 3 fskbk, ss
yellow red fsl, thick platy
SS, 5% clanners

4' red-yellow fsl, thin platy

4.8' brn fsl, thin platy
many fine mica

12' water
brn & pale brn fsl

24' dk brn L, 2 fskbk
brn L, 2 fskbk
red & vel-red L, thick platy

3' red & brn fsl, thick platy

brn & lb brn fsl, thick platy
many f. mica
C10 (dk. brn, Mn)
P3d (dk. brn, Mn)

10.5' water

2' brn L, 2v fskbk
brn L, (mixed)
2 fskbk

1.2' brn L, 2 m fskbk

4' dk brn L, 2v fskbk

0.3' vel-red & brn L, 2 fskbk
P1d (dk. brn, Mn)

1.5' vel-red & brn fsl, thick platy
many f. mica
C1d (dk. brn, Mn)

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/4/16	1	4.5/12'	10:05	10:09	10:17	8	P
4/4/16	2	4.2/12'	10:10	10:18	10:32	14	P
4/4/16	3	3.9/9.5'	10:47	10:52	11:00	8	P
4/4/16	5	4.2/10.5'	11:03	11:09	11:20	11	P
4/4/16	4	4'/9'	11:24	11:32	11:42	10	P

1.6' brn fsl, thick platy
common v. mica

3.5' brn fsl, thick platy
many v. mica

4' brn fsl, thick platy

1' m3d (dk. brn, Mn)

2.3' red-vel & pale fsl, thick platy
brn
many f. mica
C3d (dk. brn, Mn)

9' water seeps
pale brn & pale fsl, thick yellow platy

3' dk brn L, 2 fskbk

3.3' red & vel-red L, thick platy

brn, yellow & red-yellow fsl, thin platy
many v. mica
m3d (dk. brn, Mn)
deposits & coatings
water

#1, 2, 3 are in SDA

REMARKS
 ANTIARIAN R. Bricker BACKHOE Bill Ingram OTHERS Prugosh Vyas
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

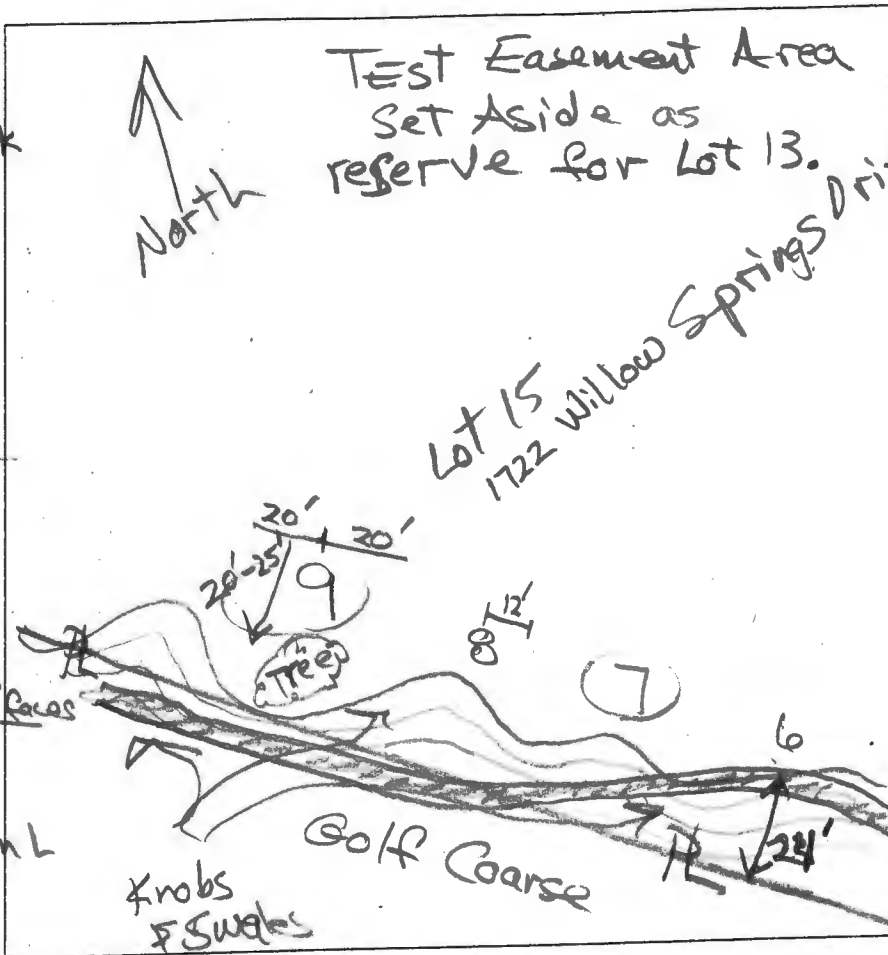
AP

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TEST EASEMENT AREA
Set Aside as
reserve for Lot 13.

North ↑

Lot 15
1722 Willow Springs Drive



0.7' dk brn L, 2 R s bk
brn & dk brn L, 2 R s bk
yel-red L
2 mpr
1.7' yel-red sl
thick platy
2.5' red, brn & red-yel ls
thin platy
many L mica
common thick dk brn coatings (Mn) on ped faces
12'

7

0.8' brn & dk. brn L
2 R s bk
yel-red sl
thick platy
clay coatings on ped faces
3.5' red-yel & pale brn ls, thin platy
common fine mica
12' fld (dk. brn, Mn)

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/4/16	9	3.5' / 12'	12:03	12:05	12:08	3	P
4/4/16	7	4.5' / 12'	12:40	12:42	12:47	5	P

REMARKS _____
 SANITARIAN R Bricker BACKHOE Bill Ingram OTHERS Bhruvish Vyas
Tom Courbois
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Oswald Jr, Woodin

From: Oswald Jr, Woodin
Sent: Monday, December 4, 2023 11:32 AM
To: Zach Sill
Subject: OSDS Plan_1734 Willow Springs Drive

Hi Zack,

The OSDS Plan for 1734 Willow Springs Drive has been reviewed with the following comments:

1. The last perc cert plan did not include the smaller area shown on Lot 15. If you need to utilize that area for this design, then a revised perc cert plan will be required to include that area.
2. The plan shows a 4 inch outfall and rip rap inside the SDA. Does this exist? I ask this question, because the inspector did not make note of it during the 2016 perc. A future site visit will occur to evaluate the area around the outfall/rip rap. Depending on the outcome of that visit, the area around the outfall may not be useable, and the rip rap will need to be abandoned.
3. Show perc test holes on plan with elevations.
4. Show trench spacing calculation (2D+W), and proper spacing between trenches in the layout.
5. Show 45 degree elbow on last turn before the septic tank.
6. Label cleanouts on plan.
7. You could make the 1st replacement system 2 – 100 ft. trenches to allow enough room to fit the 2nd replacement system in the lower portion of the SDA.
8. How did you arrive at 111.0239 CF or 830.516 excess above the high water alarm? Are you including the space above the pump tank invert?
9. Eliminate 90 degree angles in FM at stream. Make FM gradually slope down to stream and up to d-box for a smoother transition. Show sleeve on FM at stream with sleeve extending out 10 feet on both sides of stream.

I will get back to you soon about my site visit findings regarding the outfall. Should you have any questions, please don't hesitate to ask.

Thanks,

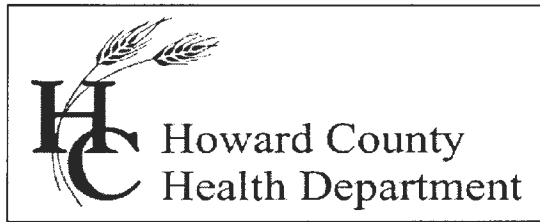
Hank

Hank Oswald
Licensed Environmental Health Specialist
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd. Columbia, MD 21045
(410) 313 - 1786
www.hchealth.org

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(outfall)

- where's it coming from & what's it serving?
- is it to remain?
- 25' off flood plane.
- show disturbance
- identify drainage channel
- stay 25' off rip rap



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

April 12, 2016

Scott Shanaberger, Shanaberger & Lane, Applicant
home@shanlane.com

RE: Percolation Test Results, Willow Highlands, Lot 13; A555807

Dear Mr. Shanaberger,

Percolation testing was conducted on April 4, 2016 on Lot 13 and Lot 15 of the Willow Highlands subdivision. The purpose for the tests was to confirm soils' properties in the sewage disposal area (SDA) recorded for the lot and in the repair area previously designated (in an easement) on Lot 15 and which is to serve Lot 13. In all, seven locations were evaluated and all seven locations PASS.

Three locations, '1', '2', and '3', are located in the recorded SDA, while locations '4' and '5' are located slightly downslope of the recorded SDA boundary. The results indicate that the boundary of the SDA may be extended to include locations '4' and '5'.

Consistent soil properties were found at locations '7' and '9' in the off-site repair area on Lot 15, therefore locations '6' and '8' were not dug. While the soil profiles and percolation rates PASS, the area of the off-site easement has been badly affected by landscape modification that serves as a boundary of the 'in-play' area on the golf course. The area available for installation of a septic system drainfield is very limited, however I believe there is enough area available for one repair system.

The percolation test results and the areas illustrated as SDA must be certified by signature of the Approving Authority on a Percolation Certification Plan. Approval of a Building Permit for construction of a residence on Lot 13 will require submittal of a BAT Plan.

If you have questions related to this inquiry, you may reply to me via email, rbricker@howardcountymd.gov, or call my desk, 410-313-2691.

Respectfully,

Robert Bricker, CPSS, REHS/R.S.

Environmental Sanitarian II

Well and Septic Program, Bureau of Environmental Health

Enclosures (3 pages): Percolation Test Application and 2 (two) Field Worksheets

Copy: Bhruvish Vyas, owner, Lot 13

File

Bricker, Robert

From: Bricker, Robert
Sent: Friday, January 30, 2015 3:43 PM
To: 'bhrugesh1956@verizon.net'
Subject: meeting February 11

Bhrugesh, Just a note to confirm that we have a meeting at our Bureau location on February 11 at 3 pm. See address that follows.
Robert Bricker

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 4120-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov

Concerning Willow Springs Lots 13 & 15

Mike Davis and I met with Mr. Vias on February 10th or 11th. Points of discussion were a review of past percolation tests, lack of clarity in results of those percolation tests, the reserve area in legal easement on Lot 15 and no tests having been conducted in that area. Mike Davis expressed that the reserve area on Lot 15 should be tested and that several confirmation tests should be conducted within the SDA on Lot 13.

Also discussed was the challenges of accessing these areas as a wooded wetland dominates the area of Lot 13 and also later the lot.

R Bricker

Bricker, Robert

From: Williams, Jeffrey
Sent: Thursday, May 07, 2015 8:46 AM
To: Bhrugesh Vyas
Cc: home@shanlane.com; Bricker, Robert
Subject: RE: Lot 13 Willow Springs perc test

The wet season start date varied from year to year based on the water table levels. We make a formal announcement on our website when it starts. It's usually sometime between February and March. We have so many projects in play that I won't remember a year from now to contact you when we start wet season. If you want to contact me in early March next year, we can see where we are with the water table levels. Thanks

Jeff

From: Bhrugesh Vyas [<mailto:bhrugesh1956@verizon.net>]
Sent: Wednesday, May 06, 2015 5:30 PM
To: Williams, Jeffrey
Cc: home@shanlane.com; Bricker, Robert
Subject: RE: Lot 13 Willow Springs perc test

Thank you Jeff, Please let me know the wet season start date for next year and will contact you to schedule the perc test.

Bhrugesh

From: Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]
Sent: Wednesday, May 06, 2015 2:19 PM
To: Bhrugesh Vyas
Cc: home@shanlane.com; Bricker, Robert
Subject: RE: Lot 13 Willow Springs perc test

A perc test application is valid for 2 years from the receipt date, so it is possible to just hold the application until next year's wet season. Please note that if you choose to wait, you will be responsible for contacting us to schedule testing once wet season starts next year. Let me know if this is what you want to do. Thanks

Jeff

From: Bhrugesh Vyas [<mailto:bhrugesh1956@verizon.net>]
Sent: Wednesday, May 06, 2015 8:03 AM
To: Williams, Jeffrey
Cc: home@shanlane.com
Subject: Lot 13 Willow Springs perc test

Hello Jeff,

My name is Bhrugesh N Vyas and own a lot 13, Willow springs lane in West Friendship.

The perc test was scheduled for May 5, 2015. and we have hires Scott to help us.

Unfortunately wet season is over and we have to wait next year to get it done.

My question is, Can i use the existing fee foe next year perc test? Please let me know.

Bhrugesh

Bricker, Robert

From: Shanaberger & Lane <home@shanlane.com>
Sent: Tuesday, May 05, 2015 4:12 PM
To: Bricker, Robert; Williams, Jeffrey
Subject: Re: wet season testing 2015

He's my client. I copied him Jeff's reply. Thank you both.

Scott

----- Original Message -----

From: Bricker, Robert
To: Williams, Jeffrey ; Shanaberger & Lane
Sent: Tuesday, May 05, 2015 4:05 PM
Subject: RE: wet season testing 2015

The receipt was written for "Bhrugesh Vyas".

From: Williams, Jeffrey
Sent: Tuesday, May 05, 2015 3:49 PM
To: Shanaberger & Lane; Bricker, Robert
Subject: RE: wet season testing 2015

Have the homeowner send me a signed letter requesting the refund. We will have to keep the \$15 plan review portion, but we would be willing to refund the remainder. I'm assuming the homeowner is the one who paid the fee. If not, whoever's name is on the check will be the one to request the refund. Thanks
Jeff

From: Shanaberger & Lane [<mailto:home@shanlane.com>]
Sent: Tuesday, May 05, 2015 10:48 AM
To: Bricker, Robert; Williams, Jeffrey
Subject: Re: wet season testing 2015

Robert, Jeff

What is the procedure for the lot owner to follow to get back his perc test fee he paid with the application? He'd like to get the fee back, then re-apply next wet season when he has had time to work out access issues. Thanks.

Scott

G. Scott Shanaberger
Professional Land Surveyor
Shanaberger & Lane
8726 Town & Country Blvd., Suite 201
Ellicott City, MD 21043
410-461-9563
410-461-9693 fax
home@shanlane.com

----- Original Message -----

From: Bricker, Robert
To: Shanaberger & Lane ; Williams, Jeffrey
Sent: Monday, May 04, 2015 4:37 PM
Subject: RE: wet season testing 2015

OK.

From: Shanaberger & Lane [<mailto:home@shanlane.com>]
Sent: Monday, May 04, 2015 4:29 PM
To: Williams, Jeffrey
Cc: Bricker, Robert
Subject: Re: wet season testing 2015

Jeff, Robert

I'd like to cancel for tomorrow. I can't recommend going through the wetlands without a permit.

Scott

----- Original Message -----

From: Williams, Jeffrey
To: Shanaberger & Lane
Cc: Bricker, Robert
Sent: Monday, May 04, 2015 4:00 PM
Subject: RE: wet season testing 2015

Based on the water levels right now, we are pushing it with our wet season tests this week. Unfortunately, we wouldn't be able to allow testing in a wet season environment such as this several weeks out when we are already on the cusp of needing an extended buffer just to get through our wet season tests this week. I'll leave it up to you how you want to proceed regarding tomorrow, but that is our only opportunity to test in this wet season. Let us know what you want to do. Thanks

Jeff

From: Shanaberger & Lane [<mailto:home@shanlane.com>]
Sent: Monday, May 04, 2015 2:42 PM
To: Williams, Jeffrey
Subject: Re: wet season testing 2015

Jeff

We're scheduled Tuesday May 5 for Lot 13 of Willow Springs (with Robert Bricker). The perc area is at the rear of the lot, the only access is from the front of the lot, and although they're not shown on the final plats there are wetlands right through the middle of the lot.

The owner hasn't been able to get access to the rear of his lots through the adjoining Lot 12 or through the golf course. The earliest we can possibly get a wetlands permit to go through the wetlands is 2 weeks per MDE, and I'd bet that 2 weeks is optimistic.

I recognize that we can barge through the wetlands and then do whatever repair work is required but I hate working that way. So I'm trying to buy more time to get the wetlands permit, get approval to put mats down and whatever else they require, and then test without losing the wet season.

Plan is attached.

There is associated testing requested (by Robert) on Lot 15, but as of this moment we have no access to Lot 15 or Lot 14 as far as we know, despite recorded easements. I'd just like to get the rear of Lot 13 tested this wet season.

Scott

----- Original Message -----

From: [Williams, Jeffrey](#)

To: [Shanaberger & Lane](#)

Sent: Monday, May 04, 2015 2:22 PM

Subject: RE: wet season testing 2015

We're pretty much at the end of it now. Which job is it and do you have a date already scheduled with one of us?

From: Shanaberger & Lane [<mailto:home@shanlane.com>]

Sent: Monday, May 04, 2015 11:54 AM

To: Williams, Jeffrey

Subject: wet season testing 2015

Hello Jeff

Is there a cutoff date for wet season testing this year? I know applications needed to be in by April 15 and we've done that. I've got a job that has run into some access problems and am trying to find out how far back we can push our testing date without missing the wet season. Thanks.

Scott

G. Scott Shanaberger
Professional Land Surveyor
Shanaberger & Lane
8726 Town & Country Blvd., Suite 201
Ellicott City, MD 21043
410-461-9563
410-461-9693 fax
home@shanlane.com

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Version: 2015.0.5941 / Virus Database: 4339/9694 - Release Date: 05/04/15

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Version: 2015.0.5941 / Virus Database: 4339/9694 - Release Date: 05/04/15

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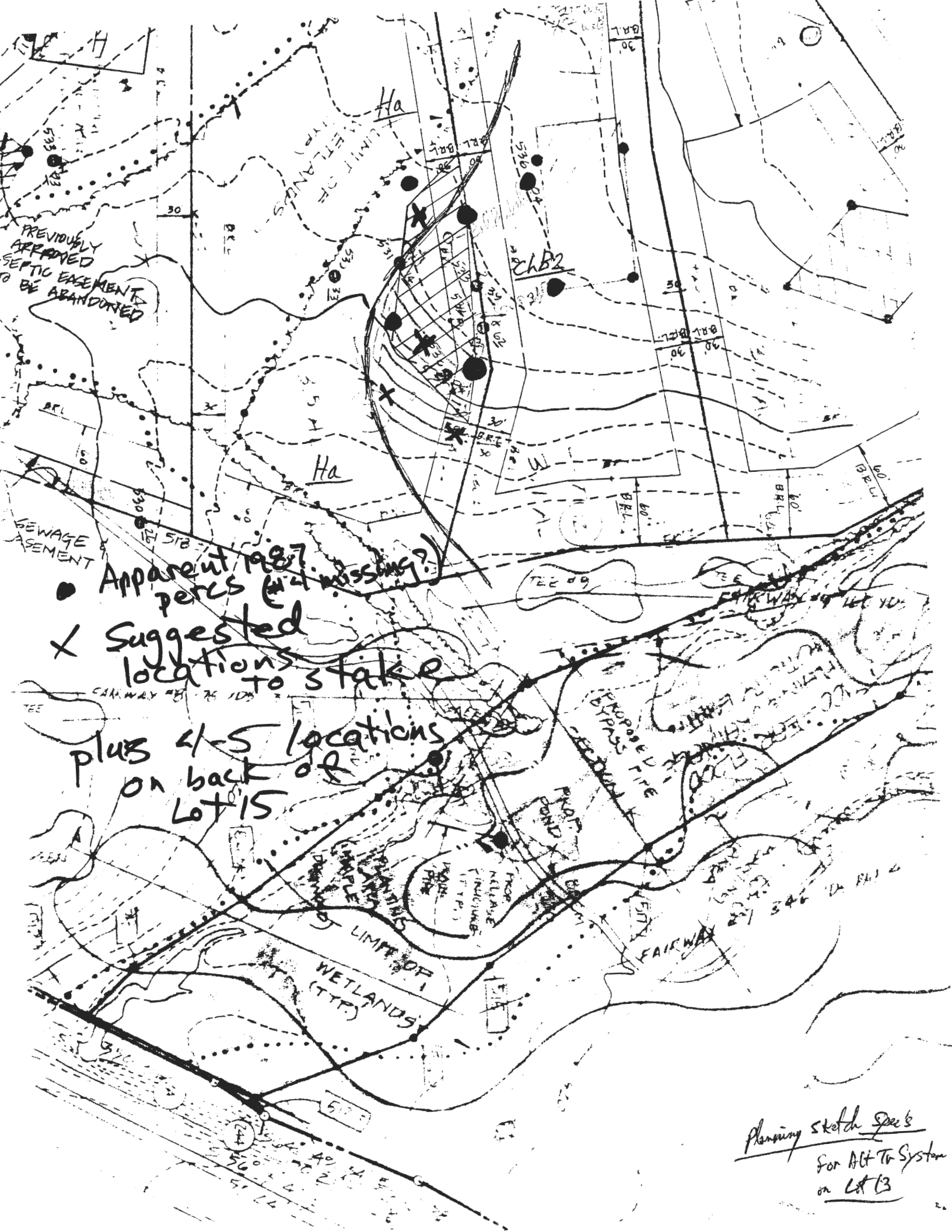
Checked by AVG - www.avg.com

Version: 2015.0.5941 / Virus Database: 4339/9694 - Release Date: 05/04/15

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Version: 2015.0.5941 / Virus Database: 4342/9701 - Release Date: 05/05/15



PREVIOUSLY APPROVED SEPTIC EASEMENT TO BE ABANDONED

SEWAGE EASEMENT

Apparent 1987 perc's (4 missing?)

X Suggested locations to stake

plus 4-5 locations on back of Lot 15

LIMIT OF WETLANDS (TTP)

Proposed Bypass

FAIRWAY

Planning Sketch Specs
for Alt Tr System
on Lot 13

