



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 528918

AGENCY REVIEW: _____

DATE 4/29/08

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) GOVIND RAO

DAYTIME PHONE 410 455-3415 CELL ✓ FAX _____

MAILING ADDRESS 10401 NORTHDAL RD COLUMBIA MD 21044
STREET CITY/TOWN STATE ZIP

APPLICANT GOVIND RAO

DAYTIME PHONE 410 455-3415 CELL ✓ FAX _____

MAILING ADDRESS 10401 NORTHDAL RD COLUMBIA MD 21044
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME PL A WOODLEIGH LOT NO. 2

PROPERTY ADDRESS 10401 NORTHDAL RD COLUMBIA
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 36 GRID 13 PARCEL(S) 226 PROPOSED LOT SIZE 1 Acre

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.

Govind Rao
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

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/1/08	(D)	6' 14"	2:57	pulled			
		7' 8"	3:19	3:25	3:36	11	(P)
	(E)	7' 2 1/4"	4:06	4:29	4:50	22	(P)

(D)
top soil Lm. OM
may ext. 12"
Br/Y CL
Dense
F Sa loam 2'
CW ↓
m SCI
massive 17'
light Br/Y
FSL
massive
↓ Day
14'

(E)
Om top soil
Lm. may ext.
Br/Y CL 16"
slightly sticky
ribbons 3/4"
moist
Br/Y SCI 2-3'
ribbons 1/4"
CW
Very tight 7'
MSL. Pale Yellow
Dry.
massive.
↓
14'

REMARKS H₂O found @ bottom of hole (D) ~ 10 min. to discharge

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

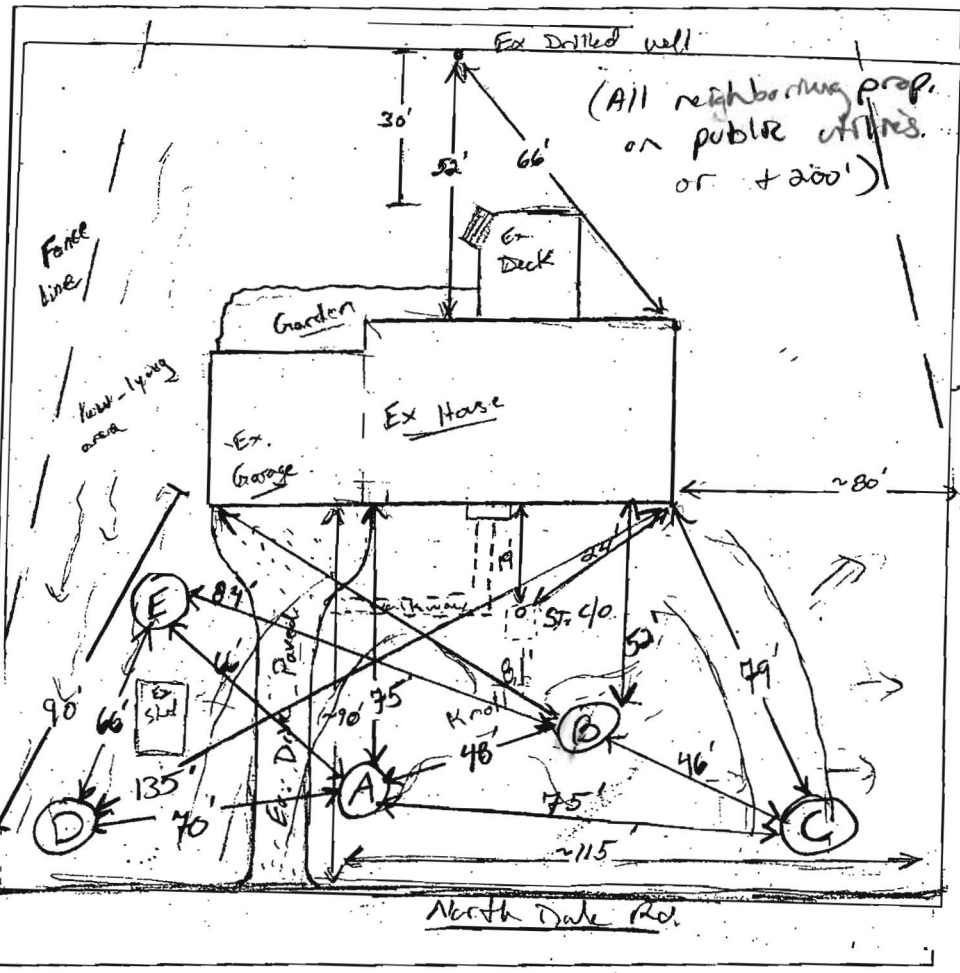
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

AP 528918

(A)
 Top Soil om
 (BYR 4/3) 12"
 Br/Y CL
 W SBK, friable,
 sticky 3'
 Pale Br/Y SCL
 very tight
 CS, friable 5.5'
 Very tight
 compacted
 SL CS,
 friable
 Very pale
 Br/Y
 massive 14'

(B)
 Top Soil om
 Many roots
 loam 12-16"
 Br Coarse
 SCL CW
 SBK, friable 2-3'
 light Br/Y SL
 slightly compacted
 CW, friable
 granular 5'
 medium SL
 Pale Yellow
 CW, friable
 ↓
 FSL Pale
 Br/Y massive ~10'
 14'

(C)
 Loam OM
 many roots 12"
 SCL Br/Y
 SBK CW 3'
 ↓
 Cl CS
 MSL
 CS 5'
 ↓
 micaceous FSL
 moist, friable
 massive 14'
 Horizontal
 bands
 of CS decomposed
 SL, Pale Y
 massive
 very moist 14'



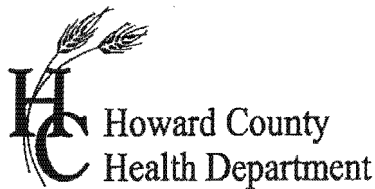
(D)
 Topsoil Loam
 many roots 12"
 Br/Y CL
 SBK 2'
 Dense FSL
 CW, friable
 BK ↓
 MSL
 massive 7'
 11 Br/Y
 FSL, massive
 DM 14'

(E)
 om Loam
 roots 16"
 Br/Y CL
 slightly sticky
 ribbons 3/4"
 moist 3'
 Br/Y SCL
 ribbons 1/4"
 CW, friable
 very tight
 MSL Pale Y
 Dry, massive 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/1/08	(A)	5.5' / 14" V	10:46	- pulled @ 11:20	little movement		F
		6'	11:23	11:50	pulled @ 12:00	too slow	F
		7'	12:30	12:45	1:22	37	
		7'	1:56	2:14	2:36	22	P
	(B)	4.5' / 14" V	11:01	pulled @ 11:32	1/2" drop		F
		5.5'	11:42	11:47	11:54	7	P
	(C)	5' / 14" V	12:05	pulled @ 12:32	3/4" drop		F
		6.8'	12:39	pulled @ 1:08	1/2" movement		F
		7.5'	1:30	pulled @ 2:02	3/4" drop		F

REMARKS: H₂O passed @ Btm of (D) ~10 min to disappear. OK
 SANITARIAN Kevin W. BACKHOE George OTHERS Legacy Contracting/own
 TEST HOLES USED IN SDA 4 1 failed AVG. PERC TIME 17 min SQ. FT/BR 150 (4)
 TRENCH WIDTH 2' INLET DEPTH 5' MAX. BOT DEPTH 10' EFFECTIVE SW 6.5'

150 (4) = 600 ÷ 0.6 = 1000 ÷ 2 = 500 (.40) = 200 LF
 *Potential bedrock limitation⁽⁴⁾ due to marginal soil + limited area



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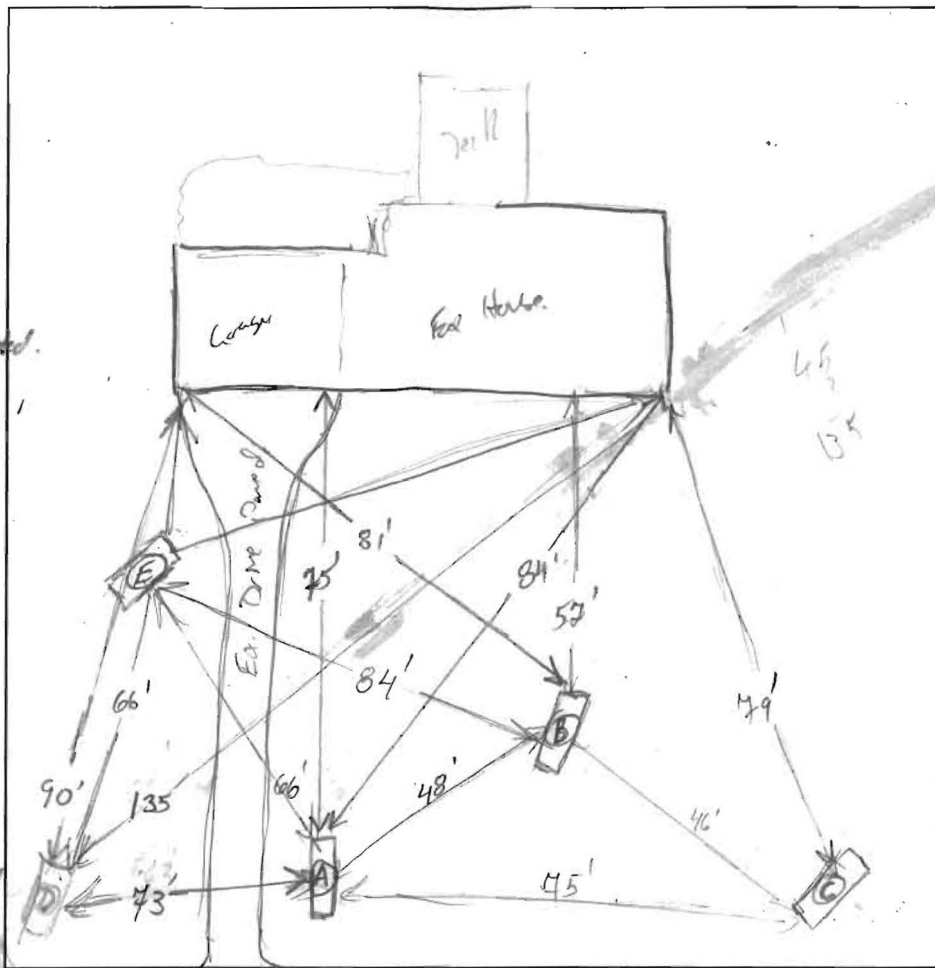
Govind Rao
SIGNATURE OF APPLICANT

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

(A)
 Top soil vr. roots.
 1m. OM
 1'
 Br/Y CL
 SBK moist
 CW fibrous 1/2"
 3'
 Pale Br/Y
 SCI tight compacted.
 slight striation
 5-6'
 very tight
 compacted
 CS SL
 light Br/Y
 Friable.
 ↓
 14'

(B)
 OM. roots
 Loose
 12"
 Br. Coarse
 SCL CW
 2-3'
 SL slight
 compacted.
 granular
 5'
 medium
 SIm.
 Pale yellow
 ↓
 CW
 Fine SIm.
 Bleached color
 14'

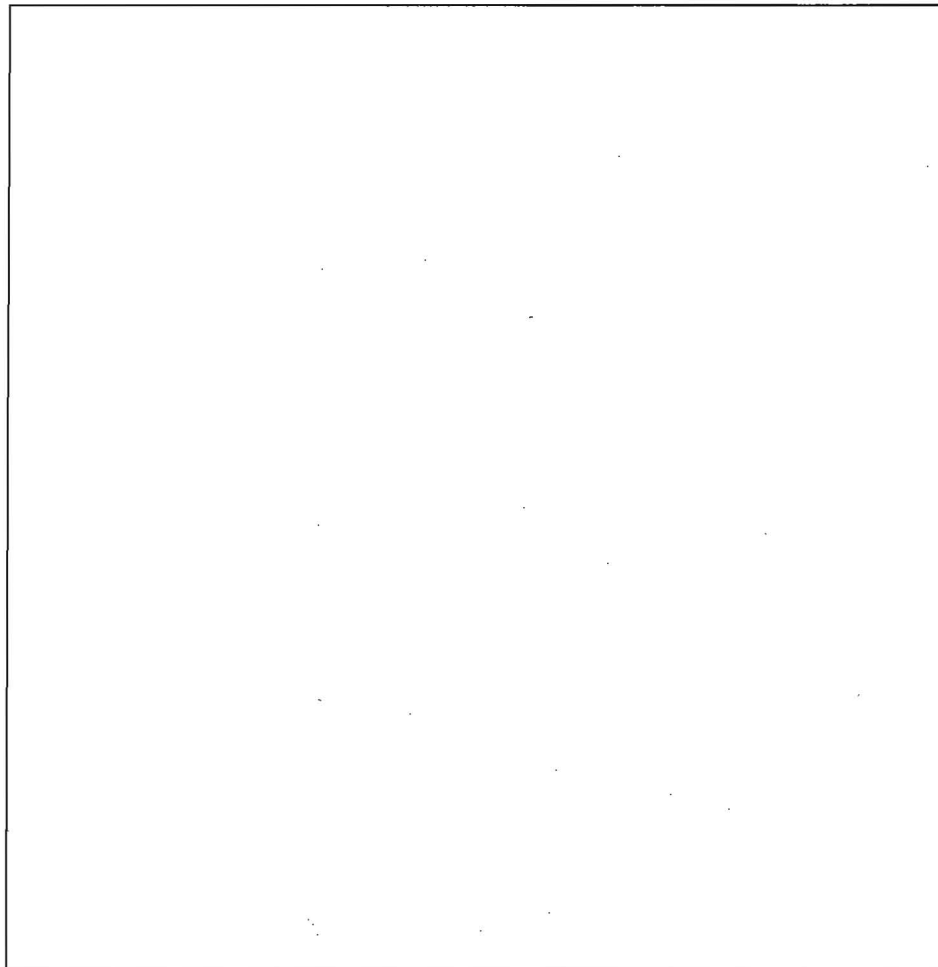
(C)
 Top soil
 Ln. roots
 12"
 SCI Br/Y
 SBK. CW
 3'
 CI
 ↓
 Medium
 SIm.
 Pale yellow massive.
 Saprotic
 14'
 H₂O slow seep.



Northdale Rd.

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/1/08	(A)	5.5' / 14v	10:46	pulled	@ 11:20	little movement	F
		6'	11:23	11:50	pulled @ 12:20		F
	(B)	4.5' / 14v	11:01	pulled	@ 11:32	42" drop	F
		5.5'	11:42	11:47	11:54	7	(P)
	(C)	5' / 14'	12:05	pulled	@ 12:32	74" movement	F
		6.8"	12:39	12:43	1:28	1:28	F
	(A)	7'	12:30	12:43	1:22	37	?
	(C)	4.5'	1:30	2:07	2:07	314" movement	F
	(A)	7'	1:56	2:14	2:36	22	(P)

REMARKS _____
 SANITARIAN Kevin Wolf BACKHOE George w/ regan OTHERS owner
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



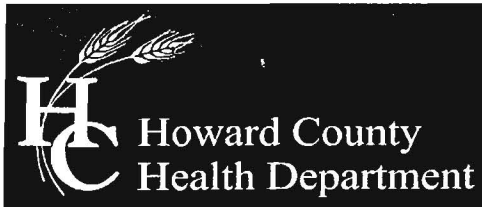
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
5/1/08	(D)	6' 1/4"	2:57	pulled	—	—	F
		7' 8"	3:19	3:25	3:36	11	P
	(E)	7' 2 1/4"	4:06	4:29	4:50	22	P

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

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



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

May 2, 2008

Govind Rao
10401 Northdale Road
Columbia, MD 21044

RE: Percolation Test Results – 528918
10401 Northdale Road

Dear Dr. Rao,

Percolation testing conducted May 1st, 2008 on the referenced property indicated satisfactory soil conditions. Copies of the test results are enclosed.

Further review of the property is contingent upon submission of a percolation certification plan required under Sec 3.805 of the Howard County Code. Enclosed are the requirements of a percolation certification plan along with common setback requirements.

During the percolation testing, our findings concluded a Gladstone urbanized soil series in which the tests were performed in. The rates were up and down most of the day but we were able to come up with an area of approximately 8,600sq.ft. (estimated). This area will be shown accordingly on the approved perc cert plan. The average percolation rate on your property was 17 minutes. Your application rate was determined to be 0.6gpd/sq. ft. These results are used to determine your future system repair area.

Our findings for your current system were also located in the field. We concluded that the system was put in the same as the as-built drawing back in 1960. You have a mid-seam, one compartment concrete septic tank with no riser and one 6" clean-out at the inlet. As we exposed the ends of the trenches, I noticed (facing the house) the top right-most trench was about 70% saturated, one below that was about 10% saturated, and the left-most trench running towards the drive-way was about 30% saturated. The metal distribution box was half eroded.

Moreover, a minor septic repair will need to be conducted to replace the collapsed distribution box. Along with this permit, all three of your existing trenches will need to have observation ports placed in the ends. Finally, an access manhole with a 36" riser will need to be added to the inlet side of the existing septic tank. The locations of the geothermal wells we discussed will also need to be included on the plan along with the proposed additions.

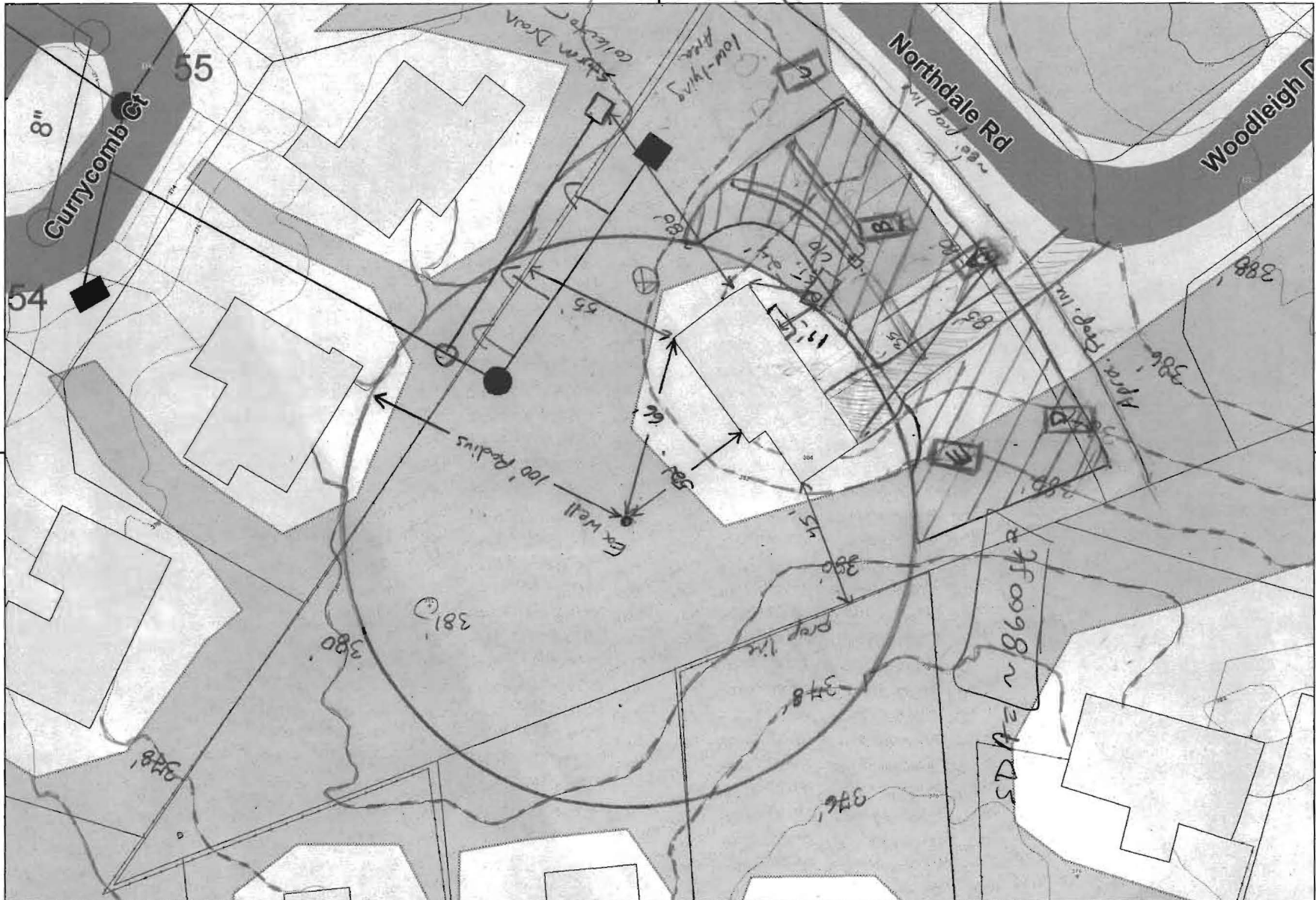
If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin Wolf', is written over a horizontal line.

Kevin Wolf, Sanitarian
Well & Septic Program

-76°52'20"



39°11'56"

39°11'56"

Disclaimer: Howard County, Maryland assumes no responsibility for the accuracy of this report or the information contained herein or derived therefrom. The user assumes all risks and liabilities whatsoever resulting from or arising out of the use of this information. There are no oral agreements or warranties relating to the use of this report.

-76°52'20"



Howard County
 M A R Y L A N D

10401 Northdale

By: kwolf
 Office: HCHD
 Map Width: 455.00 ft.
 Print Date: 4/23/2008
 Scale: 1 in. = 50 ft.



HOWARD COUNTY HEALTH DEPARTMENT

A528918

DATE
4 / 29 / 08

Received From

Govind Rao - for Upgrade

PHONE # 410-455-3415

10401 Northdale Rd, Columbia MD 21044

For Proc Application

- CASH
- CHECK

10401 Northdale Rd, Woodleigh Lot 2

NO.

Five hundred six and 00/100

Dollars

\$

506 ⁰⁰

Received By

Mary L Bugja