



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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 _____ 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) JAMES Tong QIN, Dongmei XIE

DAYTIME PHONE 240.361.8067 (cell) CELL 240.686.7857 (work) FAX 240.686.7705

MAILING ADDRESS 9395 Penrose Street Frederick MD 21704
STREET CITY/TOWN STATE ZIP

APPLICANT Same as above

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME HAVILAND HILLS, LOT 25 LOT NO. 25

PROPERTY ADDRESS WAYSIDE COURT, Clarksville, MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 13 PARCEL(S) 220 PROPOSED LOT SIZE 1.43Ac.
62,291 SF

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.

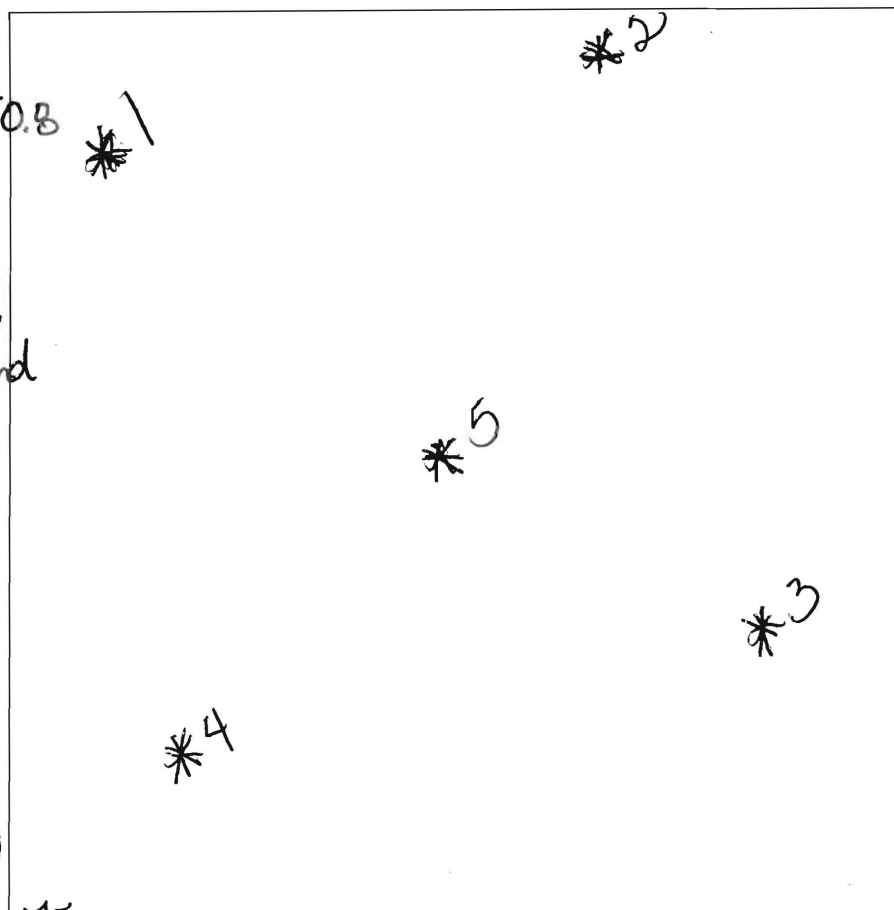
TEST RESULTS WILL BE MAILED TO APPLICANT. James T. Qin, Dongmei Xie
SIGNATURE OF APPLICANT

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

#4
~~2 SBK Bk Brn~~ 0.8
 Rd Brn
 SCH 2'
 Rd Brn
 much mica
 Bl medium
 ↓ 5'
 Grey Yellow Band
 Rd Brown
 F SL
 ↓ 10'

#3
~~2 SBK Brn~~ 0.8
 Rd Brown
 SCH
 ↓ Weakly
 med Sl Red Brown
 Small stones
 10-15%
 much mica
 ↓ 11'

#2
 2 SBK DK Brn
 Grey 0.8
 Red Brown
 SCH
 Weakly
 ↓ 4'
 Rd Brown
 SL
 Much mica
 Weak
 medium
 10-20% small
 ↓ 12'



#5
~~2 SBK Brown~~ 0.8
 Rd Brown
 SCH 2'
 Rd Brown
 much mica
 F SL 8'
 Vel. Rd Brn
 5-10% shale
 F SL
 ↓ 10'

#1
 DK Gr Brn
 SCH 0.8
 Rd Brn SL
 much mica
 Strong Sub.
 Blocking 3.5
 FSL Rd Brn
 much mica
 Weak
 medium
 sub-angular
 Blocking
 ↓ 10'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-24	4	3.5/10	9:32	9:42	9:55	13 min	P
5-24	3	3/11	9:56	10:03	10:17	14 min	P
5-24	2	4.8/12	10:27	10:29	10:34	5 min	P
5-24	5	3/12	10:43	10:53	10:07	10 min	P
5-24	1	10	Visual				P

REMARKS

SANITARIAN D Bernard

BACKHOE

OTHERS

TEST HOLES USED IN SDA

5

AVG. PERC TIME

14 min

SQ. FT/BR

TRENCH WIDTH

2

INLET DEPTH

4

MAX. BOT DEPTH

60

EFFECTIVE S/W

4 - / .08
2 - / .57

Percolation Information- 25 Wayside Court

NOT TO SCALE

#1

2sbk , Dk. Brn
SCL
-----0.8'
Red-Brown
SCL
Much Mica
Strong SBK
-----3.5'
Red-Brown
Yellow
FSL
Much Mica
Weak
Medium
Sub Angular
Blocking
-----10'

#2

2sbk , Dk. Brn
Grey SCL
-----0.8'
Red-Brown
SCL
Weakly
-----4'
Red-Brown
Yellow
FSL
Weak
Much Mica
10-20% Small
Stones
-----12'

#3

2sbk , Dk. Brn
SCL
-----0.8'
Red-Brown
SCL
Much Mica
-----3'
Red-Brown
Medium SL
10-15%
Small Stones
Much Mica
-----11'

#4

Dk. Gray
Brown 2 SBK
SCL
-----0.8'
Red Brown
Medium SCL
Much Mica
-----2'
Red Brown
Medium
FSL
-----5'
Yellow Band
Red Brown
FSL
-----10'

#5

2sbk , Dk.
Gray
Black SCL
-----0.5'
Red-Brown
SCL
-----2'
Red-Brown
SCL
Much Mica
10% - 20%
Small Stones
-----8'
Yellow Red
Brown FSL
5-10 Shale
-----10'

Date	Test	Depth	Start	Break 1" Drop	Break 2" Drop	Time of 2 nd Inch	P/F/H
5-24-10	1	10'		Visual	Pass		Pass
5-24-10	2	4.8'/12	10:27	10:29	10:34	5 min.	Pass
5-24-10	3	3'/11	9:56	10:03	10:17	14 min.	Pass
5-24-10	4	3.5'/10'	9:32	9:42	9:55	13 min.	Pass
5-24-10	5	3/12'	10:43	10:53	10:07	10 min.	Pass

Remarks: Perc area suitable for functional SDA.

Sanitarian D. Bernard Backhoe Others

Test Holes Used in 5 Avg. Perc Time 14 min. SQ.FT/BR 4

Trench Width 3 Inlet Depth 4 Max Bot. Depth 5 Effective S/W 1'

August 2009



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

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

DATE: June 1, 2010

RE: Percolation Test Results

Purpose: Create a New Lot and Establish Septic Reserved Area
Property ID: 25 Wayside Court, (Haviland Hills Subdivision Lot #25)
Clarksville, Maryland 21029
Tax Map: 34, Parcel: 220

TO: Mr. James T. Qin
9395 Penrose Street
Frederick, Maryland 21704

Percolation testing was recently conducted May 24, 2010 on the above referenced property, in an effort to establish sufficient septic reserve area and create a new lot.

Results indicate satisfactory soil conditions for onsite wastewater disposal and adequate septic reserve area to support the proposed number of bedrooms for a single family dwelling.

A total of 5 test holes were dug. Field data collected is shown on the Percolation Test Worksheets enclosed with this letter. A new reserve area with 2 repairs was established on the lot. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation.

The next step in this process is to have your engineer /consultant submit a Percolation Certification Plan. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

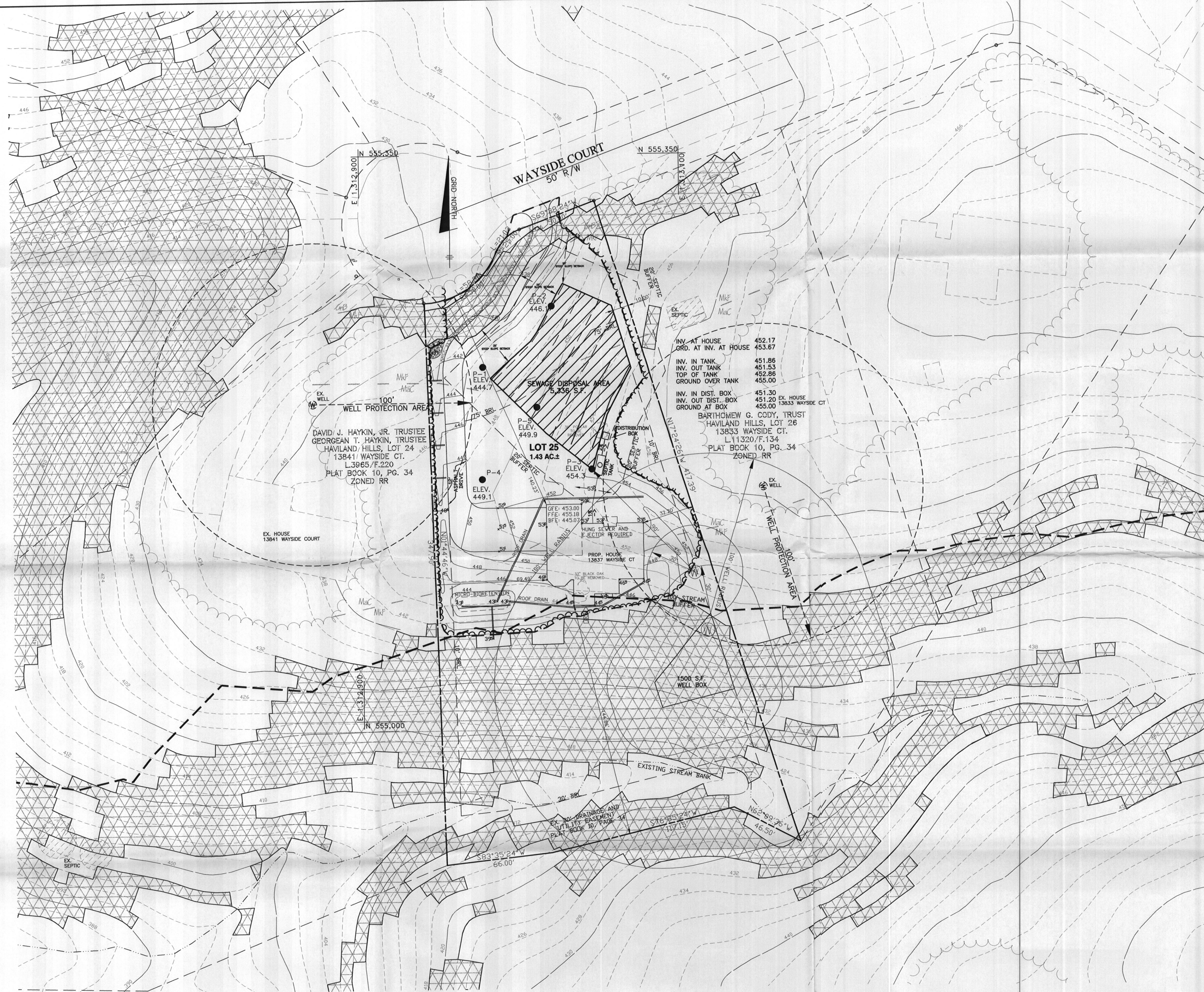
Respectfully,

Dana Bernard, Environmental Sanitarian
Bureau of Environmental Health
Well and Septic Program
Phone (410) 313-2775
E-mail: DBernard@howardcountymd.gov

DLB

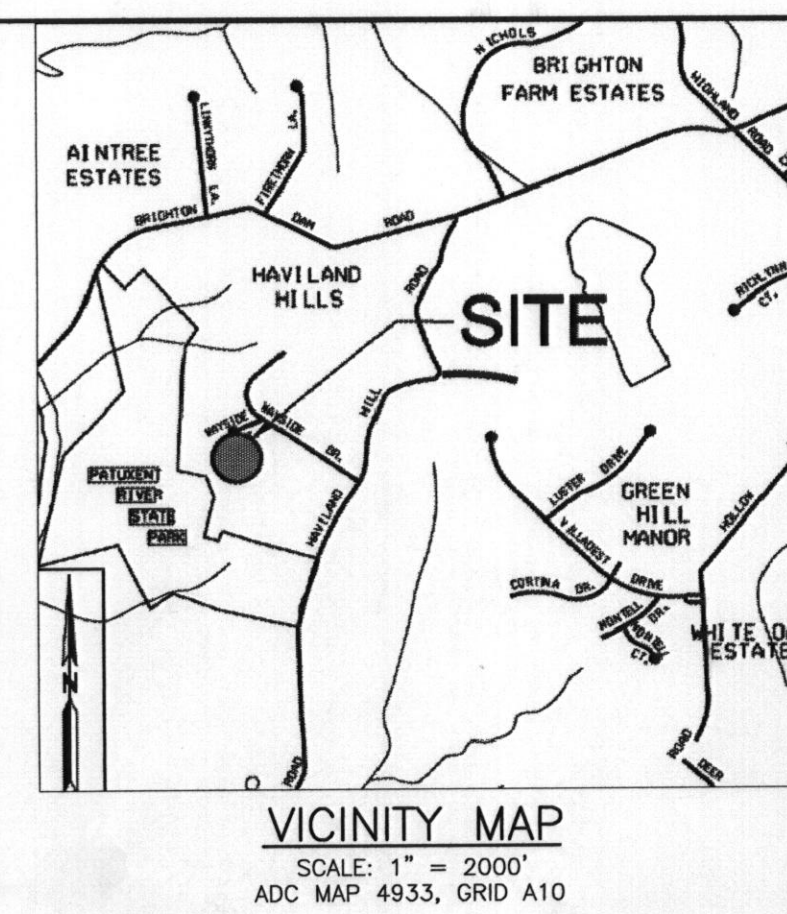
Enclosures

cc: Well & Septic program file
KCI Technologies, Inc.



LEGEND

---580--- EXISTING CONTOURS
S69°38'24"W 50.00' LIMIT OF SUBMISSION
--- EXISTING TREELINE
--- PROPOSED TREELINE
● TEST HOLE -PASS
[Hatched Box] PROPOSED SEPTIC AREA
McC SOILS DELINEATION
[Circle with W] PROPOSED WELL
[Cross-hatched Box] 25% AND GREATER SLOPES



SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
* GmB	C	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES **
McC	B	MANOR LOAM, 8 TO 15 PERCENT ***
MkF	B	MANOR-BRINKLOW COMPLEX, 25 TO 65 PERCENT SLOPES, VERY ROCKY ***

* INDICATES HYDRIC SOILS
** MODERATELY ERODIBLE
*** SLIGHTLY ERODIBLE
TAKEN FROM HOWARD COUNTY SOILS SURVEY, ISSUED MAY 2008, MAP NO. 16

GENERAL NOTES

1. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
3. THE INITIAL SEPTIC SYSTEM SHALL BE 2 TRENCHES EACH 56 FEET IN LENGTH FOR A TOTAL OF 112 LINEAR FEET OF TRENCH.
4. TOPOGRAPHY OUTSIDE OF THE LIMIT OF DISTURBANCE IS BASED ON HOWARD COUNTY GIS AERIAL TOPOGRAPHY INSIDE THE LIMIT OF DISTURBANCE IS BASED ON FIELD RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., DATED SEPTEMBER, 2010.
5. ALL KNOWN EXISTING WELLS AND SEPTIC WITHIN 100 FEET OF THE PROJECT BOUNDARY ARE SHOWN ON THIS PLAN.
6. HAVILAND HILLS LOT 25 WAS CREATED PRIOR TO 1972 AND THEREFORE, PER THE HEALTH DEPARTMENT, THE SEPTIC EASEMENT IS ALLOWED TO BE LESS THAN THE REQUIRED 10,000 SQUARE FEET AS LONG AS IT CAN ACCOMMODATE 1 SEPTIC SYSTEM AND 1 REPAIR SYSTEM. AS DESIGNED, THE PROPOSED SEPTIC EASEMENT SHOULD BE CAPABLE OF HANDLING THE INITIAL SYSTEM PLUS 2 REPAIR SYSTEMS AT 112 LINEAR FEET PER SYSTEM.
7. A VARIANCE WAS REQUESTED TO INSTALL THE WELL OUTSIDE OF THE FOREST CONSERVATION AREA. THE RESERVE WELL BOX REMAINS AS APPROVED MARCH 2, 2011.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

Alice Miller
ALICE MILLER FOR BENCHMARK ENGINEERING
PLAN PREPARER

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Barbara B. Bilewson 4/15/2011
HOWARD COUNTY HEALTH OFFICER DATE

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 418 • ELICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702
(P) 301-371-3505 (F) 301-371-3509
WWW.BE-CIVILENGINEERING.COM

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 22390, Expiration Date: 6-30-2011.

OWNER: JAMES T. QIN 9395 PENROSE STREET FREDERICK, MARYLAND 21704 301-874-2674	PROJECT: QIN RESIDENCE 13837 WAYSIDE COURT HAVILAND HILLS, LOT 25 CLARKSVILLE, MD
BUILDER: NDI HOMES 134 HOLIDAY CT., SUITE 300 ANNAPOLIS, MARYLAND 21401 410-266-5634	LOCATION: TAX MAP No. 34, GRID No. 13, PARCEL No. 220 5th ELECTION DISTRICT HOWARD COUNTY, CLARKSVILLE, MARYLAND 21029
TITLE: VARIANCE REQUEST PLAN	
DATE: APRIL, 2011	PROJECT NO. 2353
DESIGN: AAM	Draft: AAM
Check: CAM	SCALE: AS SHOWN
DRAWING 1 OF 1	

