

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

AP 529483

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

DATE 7/11/08

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 \_\_\_\_\_ 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) Giles Cook

DAYTIME PHONE 443-266-7372 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 2231 Daisy Road Woodbine Maryland 21797  
STREET CITY/TOWN STATE ZIP

APPLICANT Mike Shapiro

DAYTIME PHONE 301-646-3372 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 15278 Ridge Hunt Drive Woodbine, Maryland 21797  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

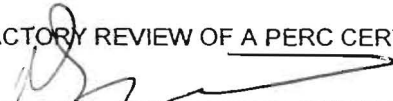
SUBDIVISION/PROPERTY NAME Cook Property LOT NO. \_\_\_\_\_

PROPERTY ADDRESS 2231 Daisy Road Woodbine Maryland 21797  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 14 GRID 7 PARCEL(S) 4 PROPOSED LOT SIZE 20.68AC.

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 OF APPLICANT

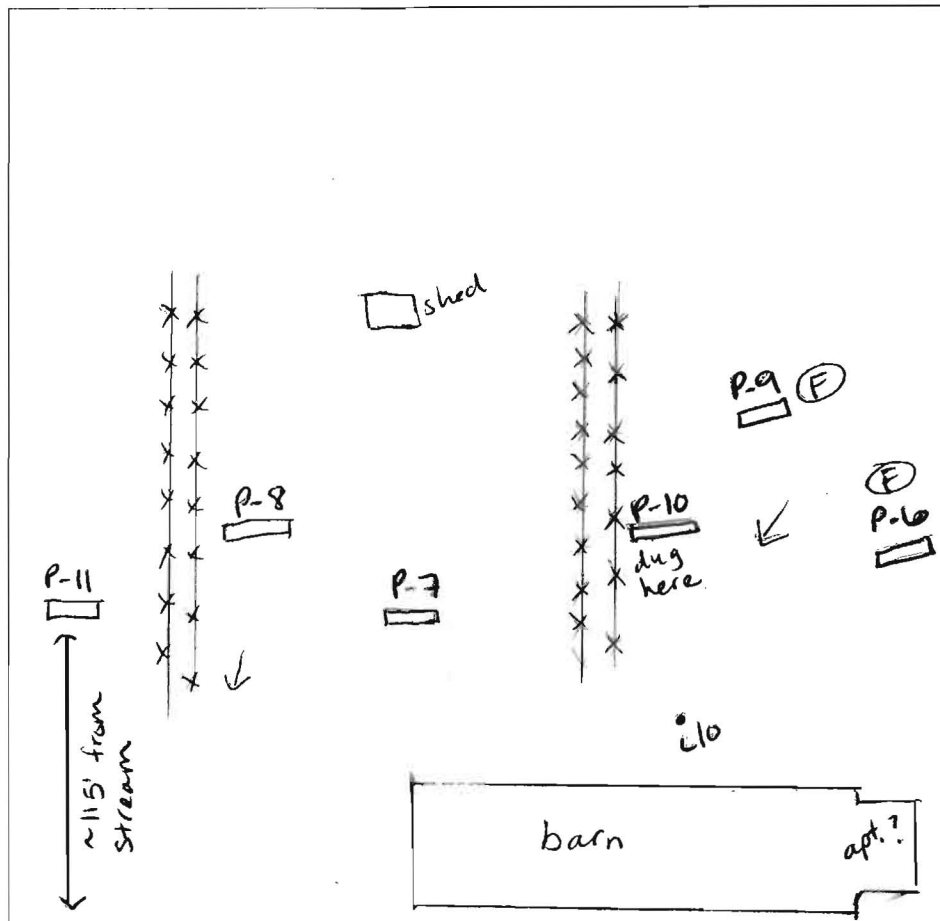
not to scale

AP 529483

**P-7**  
 1' brn l  
 sbk  
 ---  
 2' red brn  
 scl  
 5-10% rx  
 ---  
 Band of  
 quartz 4'  
 red brn  
 scl med.  
 20%-30% rx  
 ↓  
 yellow brn  
 sl  
 13.5'

**P-8**  
 .5' brn l  
 ---  
 org brn  
 scl sbk  
 very dry  
 15% chert  
 ---  
 4.5' brn sil  
 ⌀  
 ---  
 10' pink/red  
 brn fs l  
 saprolite  
 ↓  
 channery  
 brn sl  
 Fe + Mn  
 deposits  
 12'  
 14' brn ↓  
 sl

**P-10**  
 .8' brn l  
 ---  
 org brn  
 scl  
 2csbk  
 20% coarse  
 chert  
 ---  
 4' yellow  
 brn/red  
 brn sl  
 saprolite  
 ↓  
 8' brn fs l  
 ↓  
 13' 20% rx



**P-11**  
 .5' brn l  
 ---  
 org brn  
 scl  
 2csbk  
 20% chert  
 5'  
 ---  
 red brn  
 fs l  
 ↓  
 pink brown  
 fs l  
 mineral  
 deposits  
 slight  
 mottling  
 @ 12' moist  
 saprolite  
 11'  
 14'  
**P-6 & P-9**  
 .8' brn l  
 ---  
 red brn  
 scl  
 flaggy  
 ↓  
 750%  
 rx  
 flaggy  
 boulders  
 HB

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/14/08	P-6	4.5'	visual		750% rx		F
	P-7	5.5' / 13.5'	10:09		no movement - reshelled-		
	P-7	7.5' / 13.5'	10:28	10:51	11:15	24	P
	P-8	7.5' / 14'	10:05	10:11	10:21	10	P
	P-9	4.5'	visual		750% rx		F
	P-10	4.8' / 13'	10:46	10:50	10:55	5	P
	P-11	8.2' / 13'	11:18	11:22	11:30	8	P

REMARKS tests for ~~two~~ existing barn \* P-11 not per plan (near boundary of wet season soil)  
 SANITARIAN HS/DB BACKHOE Hatfields OTHERS \* P-10 dug ~ 10' off of stake  
 TEST HOLES USED IN SDA 4 AVG. PERC TIME SQ. FT/BR  
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

(AIP 529483)

P-1

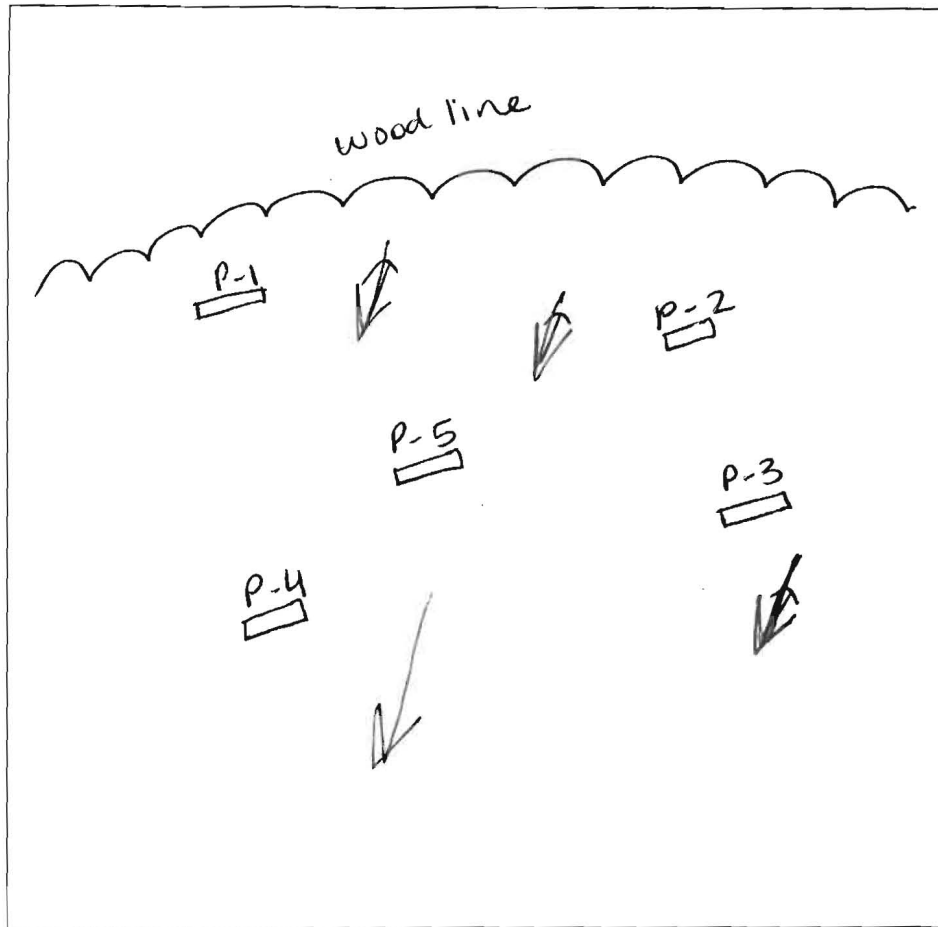
5' org brn l  
 org brn scl 20% coarse chert sbk  
 3.5' yellow brn sil  
 4.5' flaggy abk brn sil  
 9' flaggy brn sil  
 12' ↓ 20% boulders

P-5

5' brn l  
 org brn scl 20% chert  
 2' red brn sil  
 8.5' lt brn fsl Saprolite  
 ↓ pink brn sil Fe/Mn deposits Saprolite  
 14'

P-2

4' brn l mss  
 red brn scl sbk 25% chert  
 2.5' yellow brn sil few mica  
 8' channely pink brn fsl  
 bottom same as P-5  
 13'



P-4

brn sil sbk  
 red brn scl 10-25% rx  
 red brn sil  
 brn sil 25% rx  
 ↓ brn fsl

P-3

brn l sbk  
 yellow brn scl 15% rx  
 red brn sil  
 brn fsl 25% rx  
 ↓ rx 30%

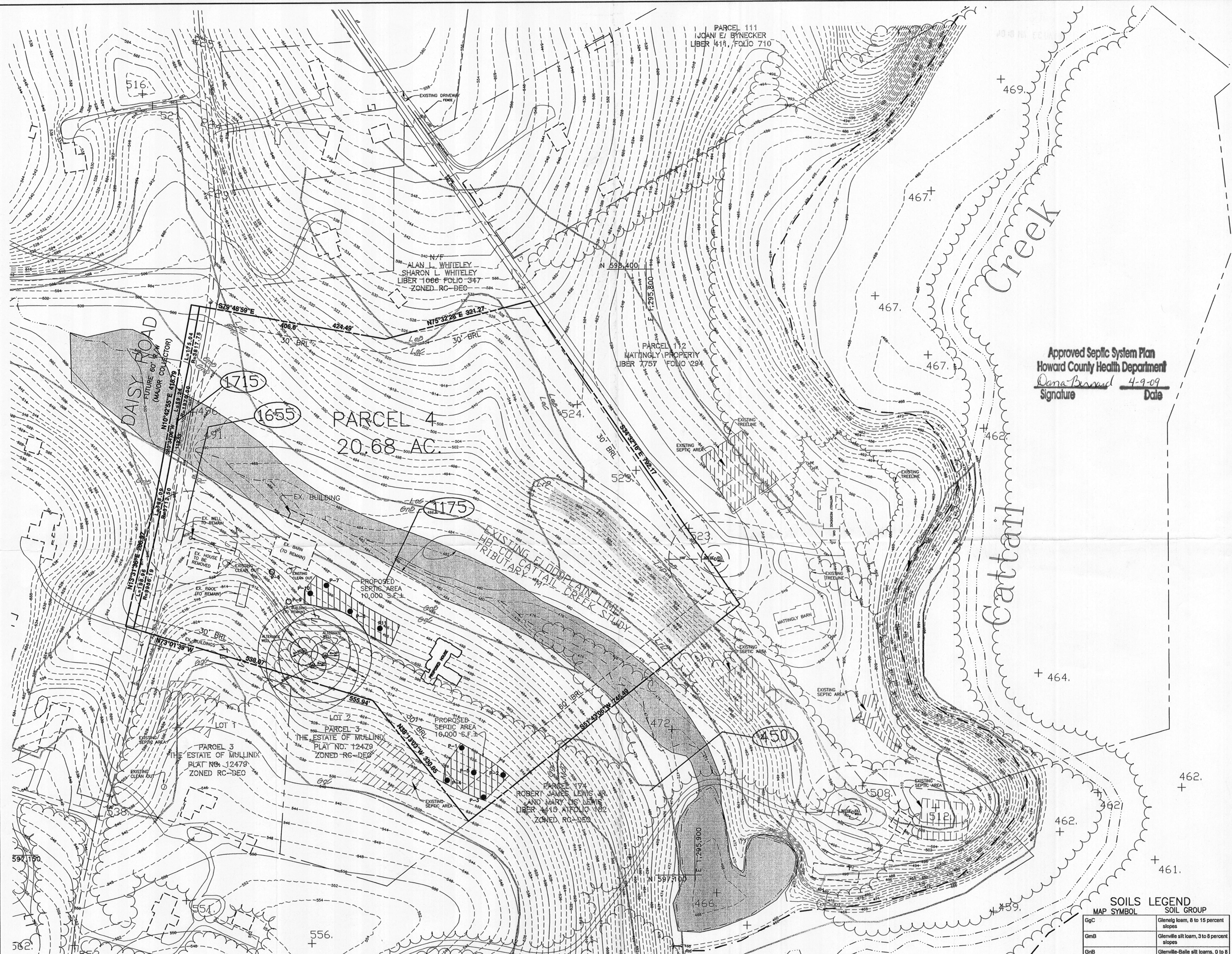
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/14/08	P-1	6' / 12'	9:22	9:25	9:28	3	P
	P-2	6.2' / 13'	9:45	9:49	9:53	4	P
	P-3	5' / 13'	9:40	9:42	9:45	3	P
	P-4	4' / 12'	9:27	9:29	9:32	3	P
	P-5	5.5' / 14'	9:31	9:36	9:42	6	P

REMARKS P-1 thru P-5 tests for proposed house / soils consistent except for P-1

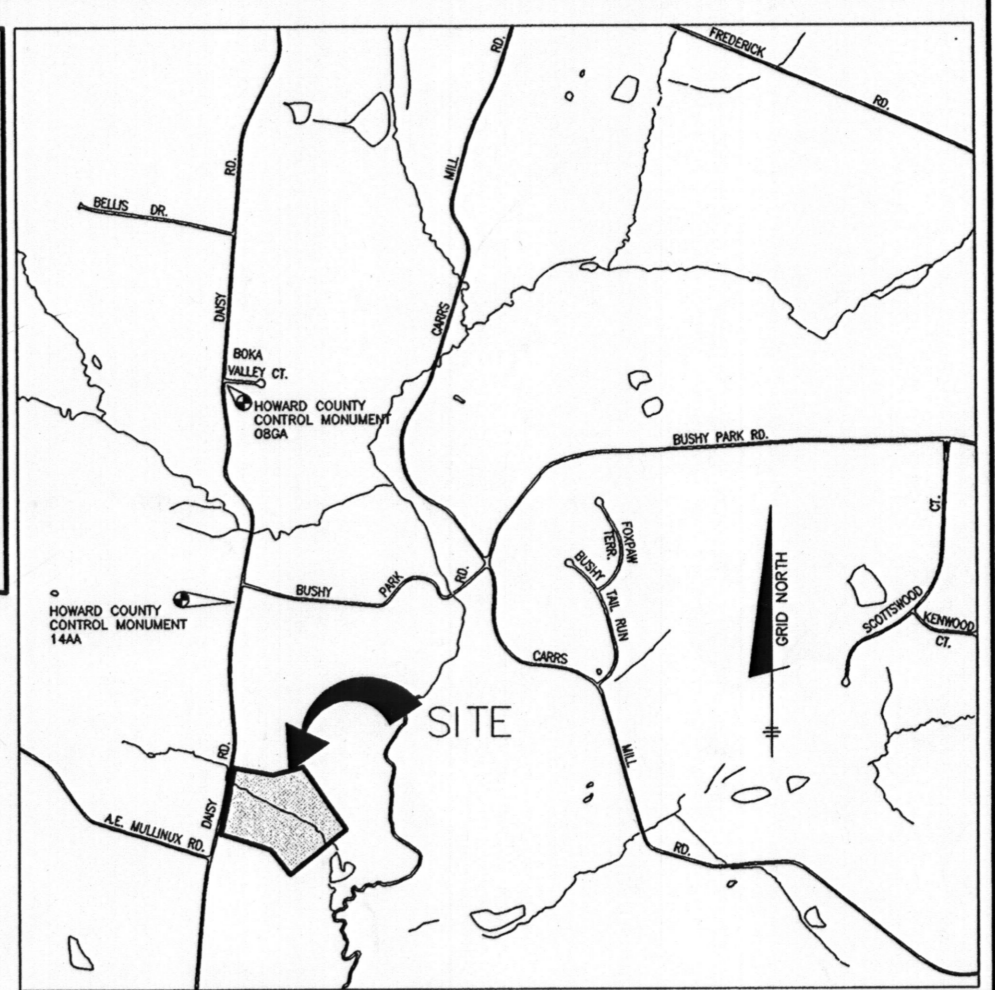
SANITARIAN HIS/DB BACKHOE Hatfields OTHERS

TEST HOLES USED IN SDA 5 AVG. PERC TIME SQ. FT/BR

TRENCH WIDTH 2 INLET DEPTH 3 MAX. BOT DEPTH 8 EFFECTIVE S/W 2'



**BENCH MARKS NAD'83**  
 HO. CO. #080A  
 STAMPED BRASS DISK SET ON TOP OF CONC. BASE 0.1 MILES SOUTH OF BUSY PARK RD. 16.5' NORTH OF G&E POLE #42475 AND 42.1' NORTHEAST OF C&P POLE #25  
 N 602,165.193' E 1,294,794.900'  
 ELEV. 551.43'  
 HO. CO. #14AA  
 STAMPED BRASS DISK SET ON TOP OF CONC. BASE 0.1 MILES SOUTH OF BUSY PARK RD. 2.1' WEST OF THE EDGE OF PAVING OF DAISY ROAD, AND 39.3' NORTH OF C&P POLE #39.  
 N 599,438.278' E 1,294,825.949'  
 ELEV. 555.71'



**Approved Septic System Plan**  
**Howard County Health Department**  
*Donna Brandel* 4-9-09  
 Signature Date

**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 OF AT LEAST 10,000 S.F. 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) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 4) TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS. 2 FOOT CONTOURS HAVE BEEN INTERPOLATED.
- 5) THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
- 6) THE EXISTING WELL IS TO REMAIN TO SERVE THE BARN.
- 7) THE EXISTING SEPTIC SYSTEM FOR THE EXISTING HOUSE SHALL BE ABANDONED PRIOR TO ISSUANCE OF THE BUILDING PERMIT.
- 8) ANY CHANGES TO THE PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 9) ALL EXISTING AND PROPOSED WELLS, SEPTIC SYSTEMS AND SEWERAGE DISPOSAL SYSTEMS LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC AND SEWERAGE DISPOSAL SYSTEMS HAVE BEEN SHOWN.

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.

*Donald Mason* 8-28-08  
 DONALD A. MASON  
 PLAN PREPARER

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
*B. Wilson for Peter Bideman* 9/16/2008  
 HOWARD COUNTY HEALTH OFFICER H.S. DATE 10/10

**SOILS LEGEND**  
 MAP SYMBOL SOIL GROUP

GcC	Glenelg loam, 8 to 15 percent slopes
GmB	Glenville silt loam, 3 to 8 percent slopes
GnB	Glenville-Belle silt loams, 0 to 8 percent slopes
LeB	Legore silt loam, 3 to 8 percent slopes, stony
LaC	Legore silt loam, 8 to 15 percent slopes, stony
LrD	Legore-Relay gravelly loams, 15 to 25 percent slopes, very stony
McD	Manor loam, 15 to 25 percent slopes, very rocky

HOWARD COUNTY, MARYLAND (MD027)  
 NATURAL RESOURCES CONSERVATION SERVICES  
 WEB SOIL SURVEY 2.0

**LEGEND**

	EXISTING CONTOURS		SOILS DELINEATION
	EXISTING TREELINE		PROPOSED WELL
	EXISTING CL. STREAM		PASSED TEST HOLE
	EXISTING WETLANDS		FAILED TEST HOLE
	LIMIT OF SUBMISSION		
	PROPOSED SEPTIC AREA		
	STEEP SLOPES 25% OR GREATER		

PLAN  
 SCALE: 1" = 50'  
 Scale 1" = 100'

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
 8480 BALTIMORE NATIONAL PIKE SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 phone: 410-465-6105 & fax: 410-465-6644  
 WWW.BE-CIVLENGINEERING.COM

**COOK PROPERTY**  
 2231 DAISY ROAD  
 WOODBINE, MARYLAND 21797-8403  
 443-266-7372

**PERCOLATION CERTIFICATION PLAN**  
 OWNER: GILES COOK, 2231 DAISY ROAD, WOODBINE, MARYLAND 21797-8403, 443-266-7372  
 DEVELOPER: MIKE SHAPIRO, 15278 RIDGE HUNT DRIVE, WOODBINE, MARYLAND 21797-8403, 301-646-3372  
 DESIGN: DAM, DRAFT: EDD, CHECK: DAM  
 LOCATION: TAX MAP: 14, GRID: 7, PARCELS 4, ELECTION DISTRICT NO. 4, HOWARD COUNTY, MARYLAND  
 TITLE: PERCOLATION CERTIFICATION PLAN  
 DATE: JULY, 2008, BEI PROJ. NO. 2146  
 SCALE: 1" = 100', SHEET 1 OF 1