

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 534007

AGENCY REVIEW: _____

DATE 10-19-10

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 1 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) Syed Ali

DAYTIME PHONE 469 471 1691 CELL _____ FAX _____

MAILING ADDRESS 714 Marriottsville Rd Marriottsville _____
STREET CITY/TOWN STATE ZIP

APPLICANT Fogle's Septic Clean, Inc / Kurt Cassell

DAYTIME PHONE 410 795-5670 CELL 410 984-5211 FAX 410 795-3432

MAILING ADDRESS 580 Obrecht Rd Sykesville, MD 21784
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 714 Marriottsville Rd Marriottsville
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 5 GRID 22 PARCEL(S) 3 PROPOSED LOT SIZE .52

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.

Kurt A. Cassell

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
1718 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P _____

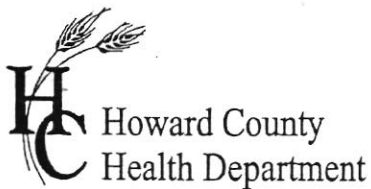
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____



APPLICATION

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APD 534067

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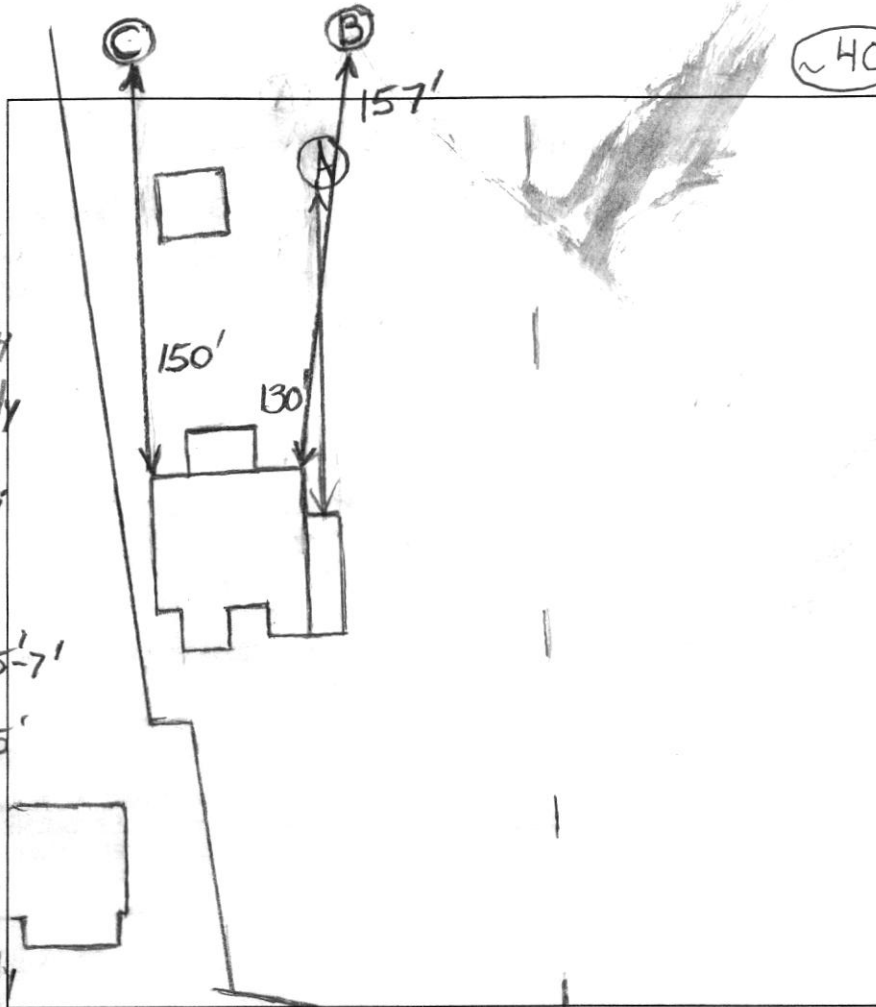
HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
1718 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AP

(A)
 Br Loam-Sal Granular-Weak sbk mvr, 7.5 R 4/4
 1'
 Red or Gravelly Cl Loam Granular-Weak sbk mfi
 2'
 Or Loam, sbk with packets of brown sal, Granular >50% Rock
 6.5-7'
 Fill 10.5'

(B)
 Black Gravelly Sa Cl Loam mvr, granular
 10'
 Dense Extremely Gravelly Loam mvr
 2'
 Dense Black Gravelly Sa Loam mvr
 26"
 Variegated Sa Loam sbk, mfi
 3'
 Black Gravelly Sa Loam, mvr
 3.5'
 Dense Br Sal Loam, mvr

More fill 5'
 Dense Red Sa Cl Loam Weak sbk
 6'
 Dense Beige Loamy Sa ~30% Gneiss
 Hard Bottom 13.5'



(C)
 Fill clay 5'
 5.5'
 Dense Dark Beige Loamy Sa, ~25% Rock
 Fill Deeper 13.5'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/22/10	A	25'/10.5'	1:12	1:45	2:30	45	H
	B	7'/13.5'	2:56	2:58	3:00	30 2 1/2	H
		5 3/4'	4:01:30	~1/4" in 30 minutes			F
	C	6'/13.5'	3:42	3:44	3:47:15	3 1/4	H

REMARKS Holes Band Care Settled Fill
 SANITARIAN B. Baker BACKHOE Fogles OTHERS _____
 TEST HOLES USED IN SDA B+C AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH 3' INLET DEPTH _____ MAX. BOT DEPTH 6.5' EFFECTIVE S/W _____

SITE INSPECTION SHEET

OWNER: Syed Ali PHONE #: _____

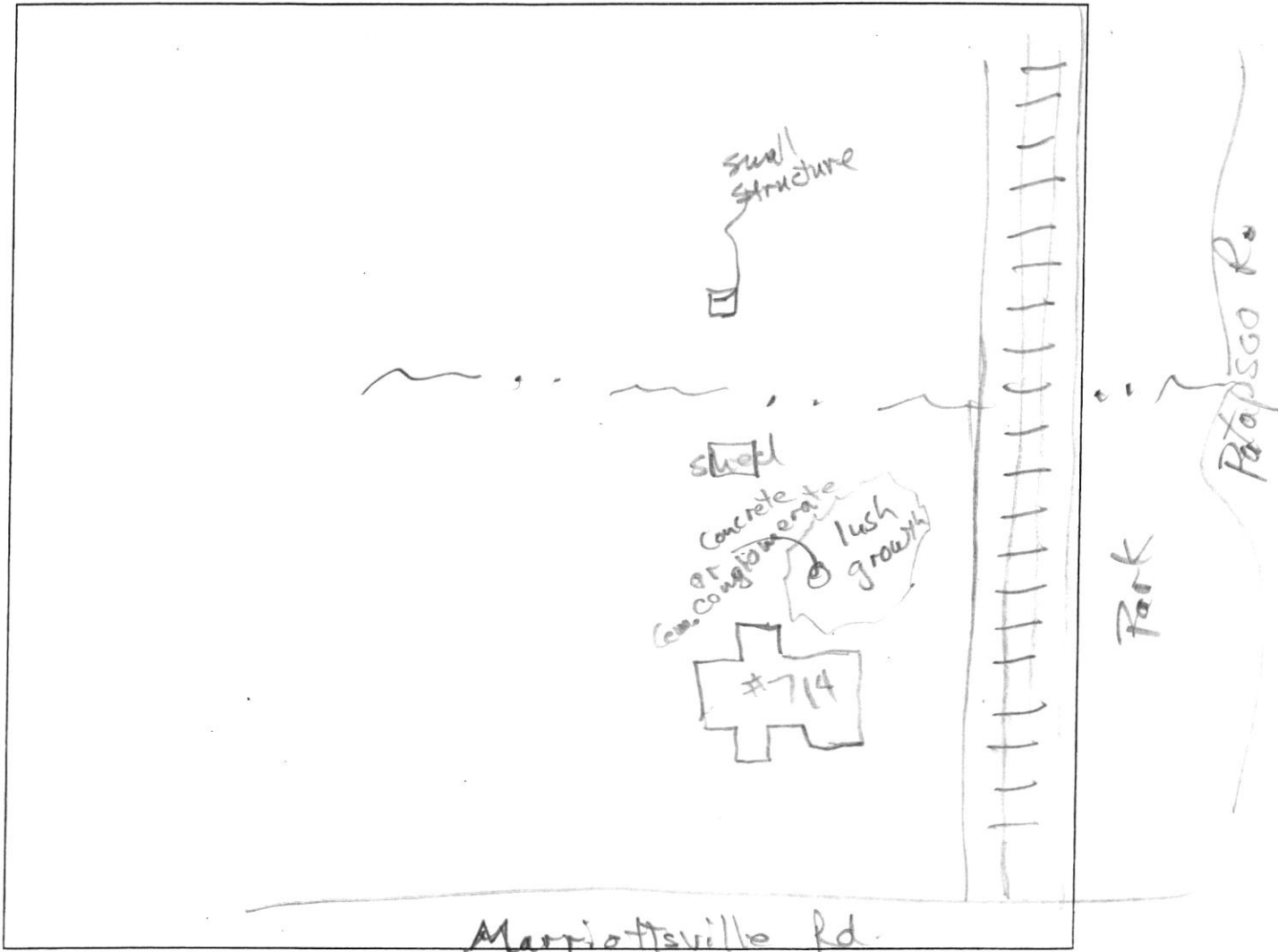
ADDRESS: 714 Marriottsville Rd. CONTRACTOR: _____

WELL TAG #: _____

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: Follow-up investigation for failed septic;
Knock on ^{side} porch door, no answer (10:35 am)

LOCATION DIAGRAM



COMMENTS: Grass growth downgrade of an apparent septic
system cover is longer (reinstall) and more lush
than other vegetation in yard. Condition indicates
nitrogen enrichment in that location of lush growth

DATE: 7/5/2012 INSPECTOR: R. Bricker

SEPTIC SYSTEM REPAIR / UPGRADE / EVALUATION REQUEST

Please fill out this form completely and check off the reason for the request:

Date requested: _____

Reason for Request

Failing System (includes surface discharge or inadequate treatment zone)

Has the contractor verified through excavation/pumping evaluation, that there are no pipe blockages? _____

In support of a building permit. Type of building addition: _____

*System relocation for proposed addition for setback compliance _____

*Verification of adequate system capacity per COMAR 26.04.02.02D (4) _____

To replace collapsed septic tank or upgrade tank capacity _____

To replace collapsed drywell _____

Septic Contractor: Fogle's Septic Clean Inc.

Contractor's Address: 580 Obrecht Rd.
Sykesville, MD 21784

Contractor's Phone #: 410 795-5670

Property Address: 714 Marriottsville Rd

Property (Subdivision) & Lot # _____

Owner's Name: Syed Ali

Is public sewer available/nearby: _____

Names of Any Previous Owners: _____

Year House Built: 1900

of Existing Bedrooms: 1

of Bedrooms after completion of addition: _____

Has this request been discussed previously with a Sanitarian, who? _____

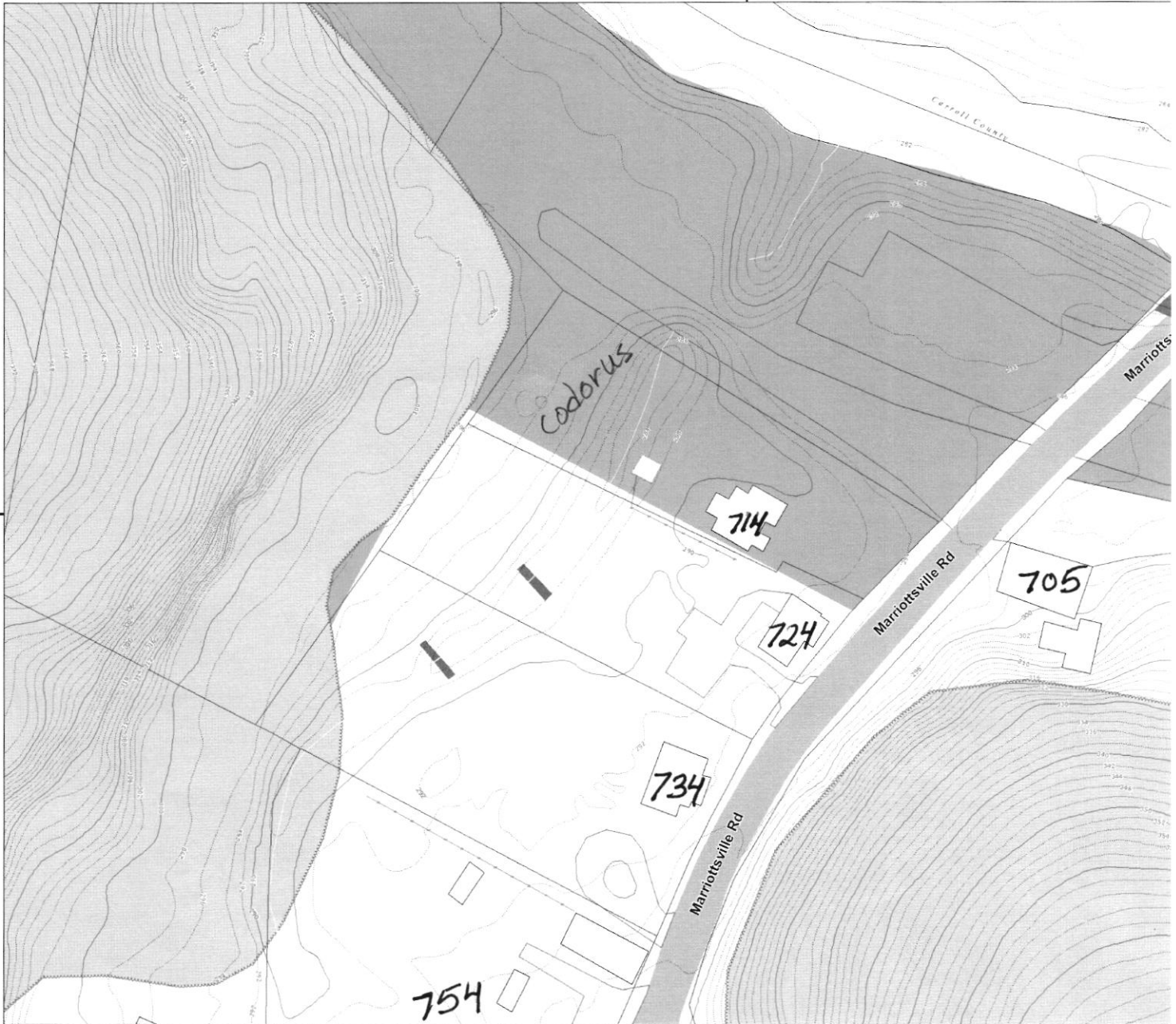
If public sewer is close, further research will be performed to verify availability and possible hook up to public sewer.

A Sanitarian will be in contact within three business days depending upon the urgency of the situation to coordinate the scheduling of the repair /upgrade/evaluation. No inspection will be performed without fee collection at the office.

Environmental Sanitarian tentatively assigned _____

-76°53'56"

39°21'14"



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°53'56"

Howard County
 M A R Y L A N D

1" ~ 100'

By:
 Office
 Map \
 Print I
 Scale



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

May 13, 2011

Mr. Bert Nixon, Director
Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

RE: **Ali Syed Property**
714 Marriottsville Road
Marriottsville, MD 21104
Tax Map 5 Grid 22 parcel 3

Dear Mr. Nixon:

I have reviewed the site evaluation data from your file and further evaluated the site with Brian Baker on November 22, 2010. The results of our site evaluation indicate that to repair the septic system properly, the installation of a conventional low pressure dosing system with an advanced pretreatment unit, or new holding tanks are required. Your file indicates that the septic system that serves this property has failed to the surface and caused issues in the past. The property owner may wish to contact a private qualified soils and onsite system design consultant if they feel that other options for this property can be proposed, however the recommendations given below are probably most appropriate for this site. The following sections summarize requirements necessary for proceeding with the project.

Pretreatment

Advanced pretreatment for Nitrogen which employs Best Available Technology is required for the new system, unless a holding tank is selected. Employing advanced pretreatment on septic tank effluent is beneficial from the standpoint of enhancing the soil absorption component of the system's performance and extending its life. There are a variety of devices and methods for providing advanced pretreatment, including aerobic pretreatment units, fabric biofilters, single pass and recirculating sand filters, peat filters, composting toilets, and greywater re-use systems.

The property owner or his design consultant may have preferences for a pretreatment unit to complement the soil absorption system selected. Pretreatment units eligible for grants from the Bay Restoration Fund are listed on MDE's website at http://www.mde.state.md.us/Water/CBWRF/osds/brf_bat.asp

Soil Absorption Component

The soil loading rates are based on the soil morphology observed in the test pits, and percolation testing. Utilizing pretreated effluent with a low pressure system (LPD), a 1.2 gpd/sq.ft. loading rate is recommended.

The initial repair system which could possibly accommodate up to a maximum of a four bedroom house would require 2 trenches to be 84 feet long, 3 ft wide and 6.5 feet deep. The inverts of the laterals should be 1.5 ft deep with 5 feet of washed stone below the laterals.

Septic Tank(s) and Pump Chamber

A two-compartment septic tank with a total capacity of 1500 gallons should be provided. The volume of the first chamber should be 1000 gallons. Access for an effluent filter should be provided at the outlet of the second chamber. Since advanced pretreatment is required, the septic tank size may vary depending on the design of the pretreatment unit selected and may comprise only one tank of a smaller size prior to the pretreatment unit/tank. The pretreatment unit itself may incorporate the tankage required for the settling of solids usually provided by the septic tank.

A pump chamber should be included that is a minimum volume of 1,000 gallons. This may allow for dosing of the effluent as well as one day's storage above a high water alarm which is required.

As always, an inspection should be conducted to evaluate all tanks for watertightness especially since this area is known for a high water table.

Plans and Specifications

It is recommended, that a qualified on-site systems design consultant be retained by the property owner to provide final plans and design specifications for the system. The designer must field verify all elevations prior to submission of plans.

HCHD Operation and Maintenance Agreement for OSDS

In addition to any BRF agreements, an operation and maintenance agreement must be signed by all parties, recorded in the land records and returned to the local Approving Authority, before permits to construct can be issued if a onsite system is selected to be installed.

Holding Tank Agreement

If a holding tank is selected, a Holding Tank Agreement must be signed by all parties and recorded in the land records. A service contract is also required that is acceptable to the approving authority. Routine pump outs (perhaps monthly) are required by a licensed septage hauler and should be verified by your office for compliance at routine and frequent intervals.

Off-Site Sewage Disposal Area Easement

Due to the limitations of the site, the property owner may want to pursue the option of an off site easement for the purpose of siting a sewage disposal system adequate to dispose of the home's wastewater. Due to the site constraints and costs associated with this option, it may not be even feasible.

Water Conservation

Because of the limitations on available area to site the soil absorption component of the system, the property owner's ability to employ water conserving measures will be a critical factor affecting the performance of the system. Composting toilets may be especially advantageous in this regard. Otherwise, the lowest water using flush toilets should be considered. If clothes washing is to be done onsite, water conserving front loading washing machines are available and should be used. Low flow shower heads and faucet flow restrictors should also be installed.

Variances

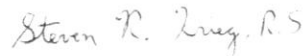
Onsite Sewage Disposal Systems (OSDS) may not be located in Floodplains or be within 25 feet of Floodplain Soils. OSDS must also be 100 feet from streams. **Two variances are required to reduce the setback distances.** One is because the proposed system will be approximately 65 feet to the stream and the other is because the replacement system will be located in Floodplain soils. Please have the property owner send a variance request in writing to your office. Both variances may be requested in one letter. Code of Maryland Regulations (COMAR 26.04.02) contains a reasonable provision for such variances to be granted by the MDE at the recommendation of the Approving Authority.

Permit for Directional Boring under the Stream/excavation in the 100 year floodplain

In order to access the suitable area to repair the septic system properly, a permit will likely be required to cross under the stream or to do some minor work in the floodplain. Attached is basic information regarding MDE's permit requirements. Additional questions may be directed to Deborah Correia at 410-537-3900. A septic system permit should not be issued unless all other permits have been obtained to do this work.

If you have questions regarding this matter please call me at (410) 537-3680.

Sincerely,



Steven R. Krieg, REHS/RS
Regional Consultant
Onsite Systems Division
Wastewater Permits Program
Maryland Department of the Environment

cc: Barry Glotfelty
Mike Davis
Jeff Williams
Brian Baker
Ali Syed
Deborah Correia
File

3.20 WATERWAY AND 100-YEAR FLOODPLAIN (NONTIDAL WETLANDS AND WATERWAYS PERMIT)

- ❑ *Question: Does your project require work to be performed in a non-tidal wetland, the non-tidal wetland buffer? ... or the 100-year floodplain?*

Why do I need this approval?

Waterway construction regulations assure that activities in a waterway or its floodplain do not create flooding on upstream or downstream property, maintain fish habitat and migration, and protect waterways from erosion. Authorization is required for construction or repair of the following projects in a waterway or a 100-year floodplain:

- Dams and reservoirs
- Bridges and culverts
- Excavation, filling or construction
- Channelization
- Changing the course, current or cross-section of any stream
- Temporary construction (e.g. utility lines)
- Any other similar project.

Ponds and dams require a separate review. See Dam Safety.

What laws or regulations give MDE the legal authority to issue this approval?

STATE: Environment Article Title 5, Subtitle 5-501 through 5-514; COMAR 26.17.04.

What is the process to get this approval?

- 1) Complete a "Joint Federal/State Application for the Alteration of any Floodplain, Waterway, Tidal or Nontidal Wetland in Maryland" application.
- 2) Mail the original plus four copies of the application, plans, vicinity maps and any supporting documentation to:
Regulatory Services Coordination Office (RSC)
MDE, Water Management Administration
1800 Washington Boulevard, Suite 430
Baltimore, Maryland 21230-1708
- 3) The RSC will determine what type of permit is necessary and will forward the application to the appropriate governmental agencies. The RSC receives applications for the Nontidal Wetlands and Waterways (3.19), Tidal Wetlands (3.18) and the Dam Safety (3.25) Divisions of the Maryland Department of the Environment, as well as the U.S. Army Corps of Engineers. The Department conducts the permit application review in cooperation with local, State and federal agencies.
- 4) Depending on the nature of the project, it may be advertised for comment and an opportunity for a public informational hearing. The applicant may be required to notify adjacent property owners.
- 5) The Department may perform a site evaluation.

6) At the conclusion of the review process, the Department will make a decision on the application. Upon receipt of final construction plans, a permit or letter of authorization may be issued by the Department. A letter of authorization is not available for highway construction.

WATER QUALITY CERTIFICATION

A State Water Quality Certification (WQC), which insures the protection of waters of the State, is necessary for activities requiring a U.S. Army Corps of Engineers Section 404 permit. When an activity is approved by a nontidal wetlands and waterways authorization (3.19), the WQC is incorporated into that authorization. When an activity is exempt from the requirement to obtain a nontidal wetlands and waterways authorization, an individual WQC is issued by the Department.

Is this approval directly related or contingent on other approvals?

Chesapeake Bay Critical Area Protection Program Erosion/sediment control and stormwater management plan approvals; and Local building permits.

Are there any other requirements?

A person is required to obtain a permit from the Department in order to change the course, current, or cross-section of a nontidal stream or body of water, including the 100-year floodplain. Activities are evaluated for impacts on the floodplain, public safety and welfare, and natural resources. An engineering analysis is required for bridges, culverts, filling, and other construction. In addition, environmental impacts associated with the proposed project, including impacts to nontidal wetlands, in-stream fisheries, wildlife, endangered species and their critical habitat, and alternatives to reduce or eliminate adverse impacts are required to be submitted with the application. Site location and design criteria are contained in the regulations.

How long should I expect it to take to get this approval once I submit a complete application?

Type of Project *	Turnaround Time
Minor projects	10 months
Major projects	12 months

* Minor Projects: Projects that involve: minor repair or maintenance; temporary construction; clearing and grading activities in the 100-year floodplain that involve less than 100 cubic yards of disturbance; or,

minor changes or modifications to existing permits.
Minor projects are not placed on public notice.

Major Projects: Projects that propose permanent impacts to: construct, reconstruct a reservoir, dam or other waterway obstruction;; construct a waterway; or, dredge, fill, bulkhead or change the shoreline. Major projects are placed on public notice.

Once I get this approval, how long will it last?

Permits may be issued for a maximum of five years and may be extended for an additional five years. Construction must be initiated within two years.

Is there a fee?

Yes. Please refer to our website for more information.
http://www.mde.state.md.us/assets/document/wetlands_application_fee.asp

Do I need to know any additional information?

Contact the Department at (410) 537-3768 for technical assistance and guidance on the preparation of a complete application. For permit application status call 1-800-876-0200.

Who do I contact with additional questions?

Amanda Sigillito
Nontidal Wetlands and Waterways Division
asigillito@mde.state.md.us
(410) 537-3766

Related link:

http://www.mde.state.md.us/Programs/WaterPrograms/Wetlands_Waterways/permits_applications/index.asp

