REGION _____ AREA _____ RATING _____

ACKNOWLEDGMENT AND CONTROLS	DATE

Howard County Department of Health

BUREAU OF ENVIRONMENTAL HEALTH

RECORD OF INVESTIGATION

DISPOSITION	DATE

LOCATION 734 Morristown Rd. ZIP _____

OWNER ☑
OCCUPANT ☐ Pamela Jimenez ADDRESS 734 Morristown Rd PHONE 443-864-8280

COMPLAINANT _____ ADDRESS _____ PHONE _____

REASON FOR INVESTIGATION Failing septic draining into near-by stream

CODES _____

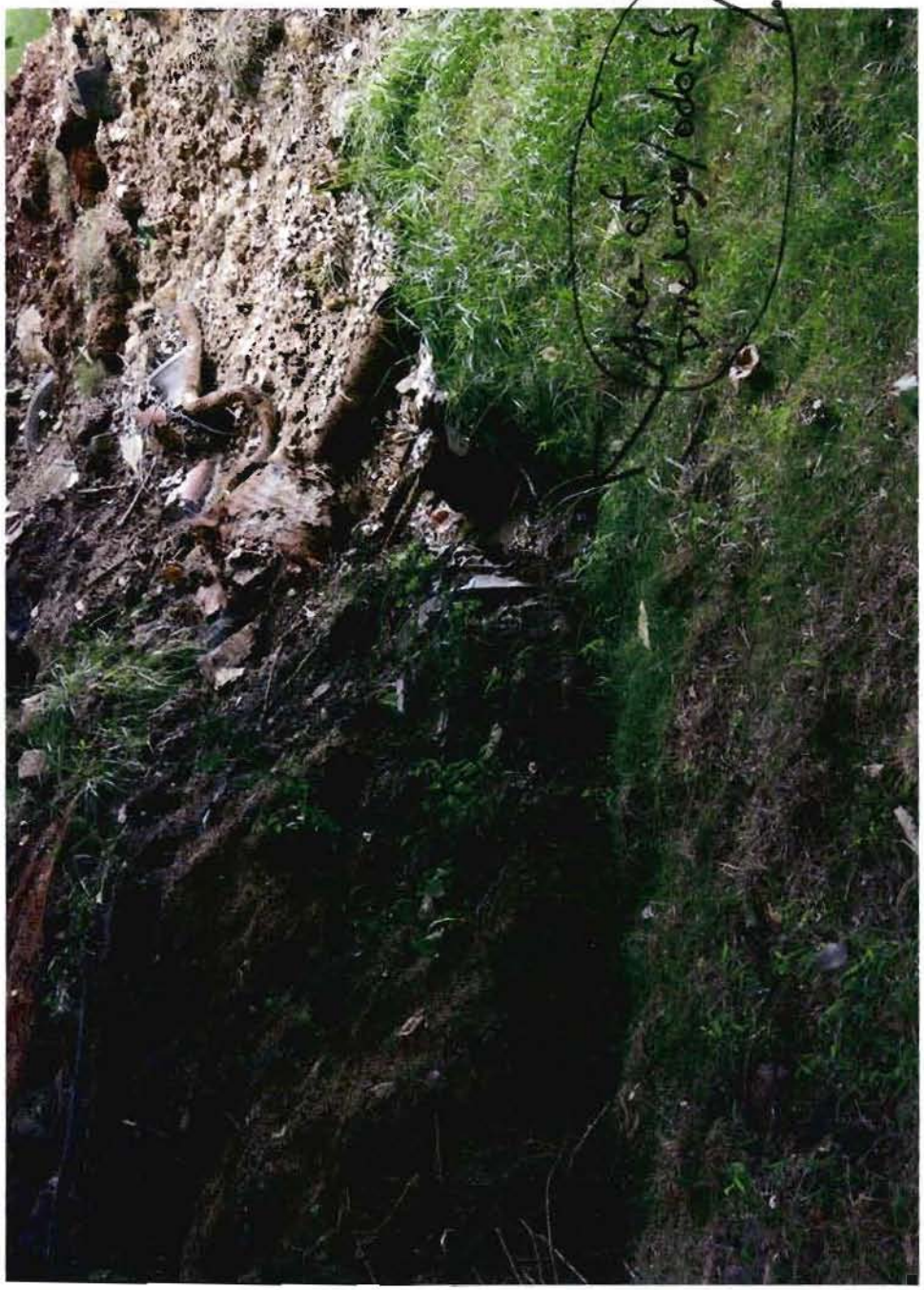
RECEIVED BY Mike Davis DATE 7/6/07 ASSIGNED TO KW/BB DATE 7/6/07

DATE OF INVESTIGATION 7/6/07 TIME Aprox 3pm WEATHER Fair / Humid, Hot

REPORT Arrived on site @ 734 Morristown Rd w/ Brian Baker around 3pm on 7/6/07, friday afternoon. Spoke w/ Home owner's Daughter concerning complaint about septic sys failing. She complied and also stated that Rob Bennett w/ cent. dist. and Michael R. Pratt w/ MDE also had been involved. With appropriate permission, we walked around the site only to find the sys was in fact failing by an over welming smell emitting around near the stream. PIC's were taken as well w/ permission. Noticed a strong drainage ditch flowing w/ sewerage water directly into the adjacent stream. After talking problem over w/ owner's daughter, called home owner, Mr. Jimenez and informed him of the situation and told him to get a septic contractor out to pump the tanks. Further investigation will follow on Monday. (KW)

DATE SUBMITTED 7/6/07 SANITARIAN K. Wall (KW)

HD-172



Soapy Suds @ outfall near riverbank
Looks to be Washing machine Discharge.

7/6/07

7/6/07 Kevin Wolf (734 Marinette Rd)

House →

Stream ↓

River

MDE
MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Shari T. Wilson
Secretary

Robert M. Summers, Ph.D.
Deputy Secretary

April 8, 2010

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

RE: **Panfilo Jimenez Property**
734 Marriottsville Road
Marriottsville, MD 21104

Dear Mr. Nixon:

I have reviewed the site evaluation data from your file and further evaluated the site with Robert Bricker and Brian Baker on November 6, 2009. The results of our site evaluation indicate the site is suitable for the installation of a conventional system consisting of a shallow uniformly pressure dosed bed with an advanced pretreatment unit, a holding tank or pursuit of establishing repair area on an adjacent property. The property owner may wish to contact a private qualified soils and onsite system consultant if they feel that other options for this property can be proposed. The following sections summarize requirements necessary for proceeding with the project.

Pretreatment

Advanced pretreatment is required for this 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 constructed wetlands, aerobic pretreatment units, fabric biofilters, single pass and recirculating sand filters, peat filters, composting toilets, and greywater re-use systems.

Advanced pretreatment units that can reduce nitrogen compounds are preferred and may be eligible for grant funding through MDE's Bay Restoration Fund. The property owner or his 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 shallow low pressure system (LPD), a 0.6 gpd/sq.ft. loading rate is recommended.

The initial system for a three bedroom house with ten occupants would require a bed to be 50 feet long by 25 feet wide. Preliminary specifications and soil evaluations indicate a design where the bed is no deeper than 24 inches with the invert laterals at 1 ft below original grade. This will provide 1250 sq. ft. of absorption area and will satisfy the recommended loading rate of 0.6 gpd/sq.ft.

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.

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 specifications for the system. The designer must field verify all elevations.

HCHD Operation and Maintenance Agreement for OSDS

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 an OSDS 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 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 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. Please have the property owner send a 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.

Water Supply

There appears to be no well on this property that serves as the water supply. The property is served by a well on an adjacent property. It is recommended that the property owner applies for a well permit to drill a well on this property (734 Marriottsville Road).

Bay Restoration Fund

Information on the Bay Restoration Fund (BRF) which may provide a grant to cover the cost of a nitrogen reducing aerobic pretreatment system is also available on MDE's website. http://www.mde.state.md.us/Water/CBWRF/osds/index.asp The BRF project manager for your county may provide additional information. The BRF Hotline is (410) 537-4195.

Please forward a copy of this letter to the property owner. If you have questions regarding this matter please call me at (410) 537-3680.

Sincerely,

Steven R. Krieg, RS

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

cc: Mr. Barry Glotfelty
Mike Davis
Robert Bricker
Brian Baker
Kevin Wolf
Hank Oswald
File

copy mailed to Pam c/o Jimenez, May 7, 2010