

*SOILS & DRAINFIELD  
ANALYSIS of VIRGINIA LLC  
11101 River Road – Chesterfield, Va. 23838  
(804) 586-5643 Fax (804) 452-3941*

**AOSE / PE Report For  
Certification Letter**

**Location of Property:** 2.90 Acres; TM 58-38 B; Located on the south side of Route 623; Meherrin District; Brunswick County.

**Application or Client and Address:**  
American Timberland Company  
P.O. Box 430  
Alberta, Va. 23821

**Prepared by AOSE/PE:**  
William W. Hopson

**Date of Report:** January 21, 2008  
**Revision Date:**

**AOSE/PE Job Number: 07-0110-10**  
**Health Dept . ID No.:**

**Contents/Index of Report:**

Page 1: Cover Page as Required by VDH  
Page 2: Date, Owner, Location Info, General Info, Drainfield Construction Specs, Percolations Lines and Absorption Area  
Page 3: Site and Soil Info, Abbreviated Design  
Page 4: Soil Profile Descriptions  
Page 5: Site Sketch

**Certification Statement(s):**

I hereby certify that the evaluation and / or design contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC 5-610) the Private Well Regulations (12 VAC 5-615) and other applicable polices of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations and policies implemented by the Virginia Department of Health.

I recommend a Certification Letter be Issued.

Stamp & Signature:

*William W. Hopson*

Date: Jan. 21, 2008



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**AOSE Drainfield Certification Letter**  
Brunswick County Health Department  
Health Department ID Number: \_\_\_\_\_

**DATE:** January 21, 2008

**OWNER/AGENT:** American Timberland Company  
P.O. Box 430  
Alberta, Va. 23821

**PROPERTY & LOCATION INFORMATION:** 2.90 Acres; TM 58-38B; located on the south side of Route 623; with 124' of road frontage on Route 623; Meherrin District; Brunswick County, VA

**WATER SUPPLY:** Private Class IIIC Well Cased: 20'+ Grouted: 20'+

**GENERAL INFORMATION:**

Type of Use: New 3 Bedroom Single Family Home With No Basement  
Daily Flow: 450 gpd  
System Type: Type II, Conventional Pump Septic Tank-Drainfield System

**SITE & SOIL INFORMATION:**

Parent Material: soils are residual, weathered granite of the Piedmont  
Physiographic Province

Description of landscape: upland, sideslope: linear-linear: mixed timber

Slope: 2-4 %

Depth to Cr or Rock: 72"+

Depth to impervious strata: 72"+

Depth to Redox mottles: None Depth to Chroma II mottles: None

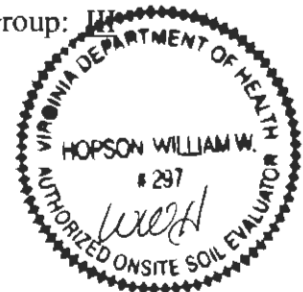
Free Water Present: From    to    None X

Soil Percolation Rate: 55 min/in (estimated)

Texture Group: III

Site Evaluated By: William W. Hopson, AOSE #297

Date of Evaluation: Oct. 2007



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**ABBREVIATED DESIGN FORM:**

Design Basis:

Estimated Percolation Rate: 55 mpi  
Square Feet Required Per Bedroom: 412  
Number of Bedrooms: 3  
Total Square Footage Required: 1236

Design Calculations:

Number of Trenches: 5  
Length of Trenches: 83'  
Width of Trenches: 3'  
Center to Center Spacing: 9'  
Total Square Footage in Design: 1245  
Installation Depth: 54"

Area Documented (total footprint): 88' x 100' = 8,800 sq. ft.

Area Required (total footprint): 39' x 83' = 3237 sq. ft.

Reserve Drainfield Required: Yes  No

Proposed Reserve: In-Ground Advanced Secondary Pretreated Drainfield

Estimated Percolation Rate: 55 mpi  
Loading Rate = .81  
Square Footage Required: 450gal/.81= 558  
Proposed Layout: 3 x 62' x 3' = 558 sq. ft.

Area Documented (total footprint): 88' x 100' = 8,800 sq. ft.

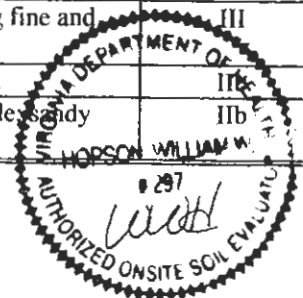
Area Required (total footprint): 21' x 62' = 1302 sq. ft.



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**SOIL PROFILE DESCRIPTIONS:**

HOLE	HORIZON	DEPTH	DESCRIPTION	TEXTURE
#1	AE	0-6	light reddish brown 5 yr 6/4; friable; sandy loam to sandy clay loam	IIb
WWH	Bt	6-42	red 2.5 yr 5/8; clay loam with moderate to strong fine and very fine subangular blocky structure	III
	BC	42-62	red 2.5 yr 5/8; friable; sandy clay loam with mica	IIb
	C	42-72+	reddish yellow 5 yr 6/8; red 2.5 yr 5/8; very friable; sandy loam; with mica; saprolite	IIb
#2	AE	0-6	light reddish brown 5 yr 6/4; friable; sandy loam to sandy clay loam	IIb
	Bt	6-40	red 2.5 yr 5/8; clay loam with moderate to strong fine and very fine subangular blocky structure	III
	BC	40-70	red 2.5 yr 5/8; friable; sandy clay loam with mica	IIb
	C	70-72+	reddish yellow 5 yr 6/8; red 2.5 yr 5/8; very friable; sandy loam; with mica; saprolite	IIb
#3	AE	0-4	light reddish brown 5 yr 6/4; friable; sandy loam to sandy clay loam	IIb
	Bt	4-30	red 2.5 yr 5/8; clay loam with moderate to strong fine and very fine subangular blocky structure	III
	BC	30-46	red 2.5 yr 5/8; friable; sandy clay loam with mica	IIb
	C	46-72+	reddish yellow 5 yr 6/8; red 2.5 yr 5/8; very friable; sandy loam; with mica; saprolite	IIb
#4	AE	0-6	light reddish brown 5 yr 6/4; friable; sandy loam to sandy clay loam	IIb
	Bt	6-34	red 2.5 yr 5/8; clay loam with moderate to strong fine and very fine subangular blocky structure	III
	BC	34-50	red 2.5 yr 5/8; friable; sandy clay loam with mica	IIb
	C	50-72+	reddish yellow 5 yr 6/8; red 2.5 yr 5/8; very friable; sandy loam; with mica; saprolite	IIb
#5	AE	0-6	light reddish brown 5 yr 6/4; friable; sandy loam to sandy clay loam	IIb
	Bt	6-36	red 2.5 yr 5/8; clay loam with moderate to strong fine and very fine subangular blocky structure	III
	BC	36-52	red 2.5 yr 5/8; friable; sandy clay loam with mica	IIb
	C	52-72+	reddish yellow 5 yr 6/8; red 2.5 yr 5/8; very friable; sandy loam; with mica; saprolite	IIb



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**SITE SKETCH:**

This site sketch includes existing and/or proposed property lines, primary and reserve drainfield areas, proposed building location, driveway, well and soil evaluation borings. This site sketch also includes any observed structures, wells or drainfields within 200' of the proposed area.

