	AOSE/PE I	Report for		
	-Genstruction	Permit		
Lot_Section_, Subdivision Lewis Ford Estates_, Campbell, County GPIN or Tax Map #				
Applicant or Client and address:	Pr	epared by AOSE/PE (name and address):		
	David B. Beahm 12719-D East Lynchburg-Salem Tnpk Forest, VA 24502			
Date of Report: <u>2/19/2010</u>		AOSE/PE Job Number:		
Revision Date:,		Health Dept. ID. No.:		
Contents/Index of this report: <sup>2</sup>				
Please refer to Table of Contents on Pa	ge 2			
Certification Statement(s) <sup>3</sup>				
I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies 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 Subdivision Approval				

Insert appropriate title: "Construction Permit", "Subdivision Approval", "Certification Letter"

Examples include: "Soil Information Summary", "Soil Profile Descriptions", "Water Supply Design Specifications",

"Primary/Reserve Design Specifications", "Construction Drawings", "Site Sketch", "Product Specification Sheet"

PE work is regulated by the Department of Professional and Occupational Regulation. This section is considered optional for PEs. <sup>4</sup> Fill in this blank with the appropriate term: "certification letter", "construction permit", or "subdivision approval" <sup>5</sup> Fill in this blank with the appropriate term: "approved", or "denied"

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   Table of Contents
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Refer to attached Subdivision Drainfield Map (one map)

Health	Department	ID=	
Due Da	te		
7,5	-	March March 1991	

## Site and Soil Evaluation Report

(For certification letters and subdivisions)

General Information
Date: 2/19/2010 Campbell County Health Department
Campoen County Fleatin Department
Applicant: Watt Foster
Telephone Number: 434-376-2322
434-370-2322
Address: P. O. Box 190; Brookneal, Virginia 24528
Owner : Watt Foster Address : Same
Location: Campbell County
Subdivision Lewis Ford Estates Block/Section Lot /
Soil Information Summary
1. Position in landscape satisfactory Yes ⊠ No □ Describe: 5/de 5/ope
2. Slope
3. Depth to rock/impervious strata (inches):Max. Min. None X
4. Free water present No ⊠ Yes □ Range in inches
5. Depth to seasonal water table (gray mottling or gray color) none
6. Soil percolation rate estimated Yes ⊠ Texture group ☐ I ☒ II ☐ III ☐ IV  No ☐ Estimated rate 45 min/in
7. Percolation test performed Yes ☐ (constant head permeameter) No ⊠
Name and title of evaluator. David B. Beahm, AOSE 000182
Signature: Maril B. Ber has
Signature: B. Dealin
Department Use
Site approved: Drainfield trench bottoms to be placed at(inches) depth at site designated on permit.
Site disapproved:
Reasons for rejection: (check all that apply)
<ol> <li>Position in landscape subject to flooding or periodic saturation.</li> <li>Insufficient depth of suitable soil over hard rock.</li> </ol>
<ol> <li>Insufficient depth of suitable soil over hard rock.</li> <li>Insufficient depth of suitable soil to seasonal water table.</li> </ol>
4. Rates of absorption too slow.
5
6. Proposed system too close to well.
7. Other (Specify)

## Abbreviated Design Form

This form is for use with gravity, pump to gravity, enhanced flow, and low pressure distribution (LPD) sewage system designs and when applying for a certification letter or subdivision approval.

This abbreviated design covers the ⊠ primary and resarea (check one) for <u>Lewis Ford Estates Lot</u>	serve area, $\square$ only the primary area, $\square$ only the reserve (property ID).
Design Basis	
Total length of available area (feet): 100	Total width of available area (feet): _55
Estimated Perc. Rate (min./inch): 45_at 50	in. (depth) Number of bedrooms (or GPD):
Conveyance Method <sup>1</sup> : gravity	Distribution method <sup>2</sup> (specify): gravity (conventional)
Dispersal system basis <sup>3</sup> Table 5.4	LGMI required? No (Yes/No)
Effluent quality required: Primary (Primary	, Secondary, Advanced Secondary)
Square feet per bedroom: 344 To	tal trench bottom area required (sq.ft.) <u>1,376</u>
<sup>1</sup> Gravity, pump, siphon <sup>2</sup> Enhanced flow, LPD, or Drip Dispersal <sup>3</sup> Table 5.4 of SHDR or identify the GMP used	
Area Calculations	
Number of trenches (Note if a pad is used)	Length of pad or trenches (ft.): 100
Width of pad or trenches (ft.):	Center to center spacing (ft):
Reserve required? <u>no</u>	Percent reserve area required: <u>na</u>
Total width of absorption area required (ft.) 39	Total trench bottom area provided (sq.ft.): 1500

>50% reserve available

system within the approved area. It is perfectly acceptable to have more area

available, especially up and down the slope, than is required.

The required width is calculated by multiplying the center-to-center spacing by one less than the number of trenches and adding 1 trench width plus any required reserve area. If the topography is not uniform across the length of the site the trenches will need to flare apart on one end to maintain contour. When this occurs it is necessary to use a center-to-center spacing that accounts for the flair or the installer will not be able to fit the

# Lot 1 Soil Profile Descriptions (Refer to Drainfield Map for locations)

SB-1

Horizon	Depth (inches)	Description	Texture Group
A	0-6	yellowish-brown 10YR5/4; heavy loam	II
Bt	6-32	Red 2.5YR4/6; heavy silty clay loam	III
C1	32-42	Yellowish-red 5YR5/8 with few weathered brownish- yellow 10YR6/6 sericite schist coarse fragments; heavy silt loam	Ш
C2	42-60+	Yellowish-red 5YR5/8 with brownish-yellow 10YR6/6 and reddish-brown 5YR5/3 weathered sericite schist coarse fragments; light silt loam to light loam	III/II

#### SB-12

Horizon	Depth (inches)	Description	Texture Group
A	0-4	Yellowish-brown 10YR5/4; heavy loam	II
Bt	4-33	Red 2.5YR4/6; few yellowish-brown 10YR5/4 lithochromic features; heavy clay loam; common mica	III
ВС	33-38	Yellowish-red 5YR5/8; common yellowish-brown 10YR5/4 and brownish-yellow 10YR6/6 lithochromic features; light clay loam	III ·
С	38-73+	Yellowish-red 5YR5/6 and reddish-brown 5YR5/3; micaceous loam to light loam; channery	II

#### SB-13

Horizon	Depth (inches)	Description	Texture Group
A	0-4	yellowish-brown 10YR5/4; heavy loam	II
Bt	4-23	Yellowish-red 5YR5/8; clay loam	III
ВС	23-29	Yellowish-red 5YR5/8; common brownish-yellow 10YR6/6 weathered schist coarse fragments; heavy loam	II
С	29-73+	Reddish-yellow 7.5YR6/6; channery micaceous light loam; very soft	II

#### SB-14

Horizon	Depth (inches)	Description	Texture Group
A	0-4	yellowish-brown 10YR5/4; heavy loam	II
Bt	4-26	Red 2.5YR4/8; silty clay loam	III
C1	26-38	Yellowish-red 5YR5/8; light silt loam; few reddish- brown 5YR5/4 sericite schist coarse fragments	III
C2	38-72+	Reddish-yellow 5YR6/8; light silt loam to light loam	III/II

### **CERTIFICATION STATEMENT**

' – $'$
Property Identification: Lewis Ford Estates LoT/
This is to certify according to § 32.1 – 163.5 of the Code of Virginia that work submitted for the referred property is in accordance to and complies with the Sewage Handling and Disposal Regulations of the Virginia Department of Health
I recommend subdivision approval
AOSE: DAVID B. BEAHM D Date:
No. 3401000077
Soil Consultant: Date:
$^1$ This blank must be filled in with one of the following terms: 'permit', 'certification letter', or 'subdivision approval'. $^2$ This blank must be filled in with the term 'approved' or 'denied'.
If the submission contains a certification by a professional engineer in consultation with an AOSE, the following statement shall be signed and sealed:
I hereby certify that the evaluations and designs contained herein (refer to subdivision, lot, etc.) were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC 5-610-10 et seq., the "Regulations") and the policies of the Virginia Department of Health for implementation of those Regulations. Furthermore, I certify that the evaluations and designs comply with the minimum requirements of the Regulations.
I recommend a1 be _2.
Licensed PE: Date:
<sup>1</sup> This blank must be filled in with one of the following terms: 'permit', 'certification letter', or 'subdivision approval'. <sup>2</sup> This blank must be filled in with the term 'approved' or 'denied'.

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