

Soil Evaluation Services, Inc.

P.O. Box 140 Route 3 & Hummel Field
 Topping, VA 23169-0140
 804-758-3511
 Fax: 804-758-0042

OSE/PE Report for Subdivision Approval

Location of property: Oyster Point Drive	Lot: <u>8</u> Section: _____ Subdivision: <u>B&L Farms</u>
	Northumberland _____ County
	Tax Map # <u>38 (1) 63 (Part)</u>

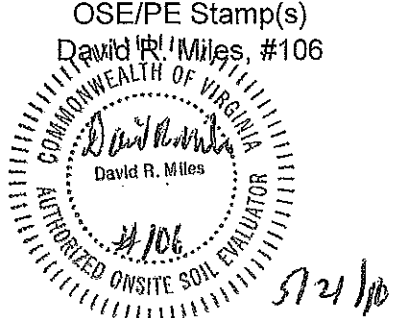
Applicant or Client and address: Bowman, Green, Hampton 501 Independence Pkwy. Suite 201 Chesapeake, VA 23320	Prepared by OSE/PE (name and address): David Miles Soil Evaluation Services P. O Box 140 Topping, VA 23169
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Date of Report: <u>May 21, 2010</u>	Health Dept. ID. No.: <u>166-10-</u>
Revision Date: _____	

Contents/Index of this report:

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2. Application	8. Abbreviated Design (Reserve)
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Certification Statement

<p>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.</p>	<p>OSE/PE Stamp(s) David R. Miles, #106 </p>
<p>I recommend a <u>Subdivision Approval</u> be approved</p>	

Construction Permit
Certification Letter
Repair

- Subdivision approval
- Conditional Permit
- Low Flow fixtures
- Occupancy _____ person

Commonwealth of Virginia Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID# 166-10- (VDH Use)

Owner Bowman, Green, Hampton & Kelly, PLLC Address 501 Independence Pkwy. Suite 201, Chesapeake, VA Phone 757/ 819-6062

Agent Soil Evaluation Services, Inc. Address P. O. Box 140 Topping, VA 23169-0140 Phone 804-758-3511

Directions to property: 360E, L/T Sunnybank Road, L/T Oyster Point Drive, property on right.

Subdivision B&L Properties Section _____ Block _____ Lot 8

Other Property Identification _____ Map Reference 38 (1) 63

Dimension/size of Lot/Property _____ 1.45 Ac.

Residential Use Yes _____ No
Termite Treatment Yes _____ No
 Single Family _____ Multi-family _____ # of units

Number of bedrooms 3 Design Flow 450

Basement _____ Yes No

Fixtures in Basement _____ Yes _____ No

Onsite Sewage Disposal System Type: Conventional - Primary, Puraflo - Reserve

Water Supply: _____ Public _____ New _____ Existing
 Private New _____ Existing

Describe: C-III A

I give permission to the Department to enter onto the property described for the purpose of processing this application and to perform quality assurance checks as necessary until the sewage disposal system has been constructed and approved.

David R. Miller
Signature of Owner/Agent

5/21/10
Date

Abbreviated Design Form

Design Basis

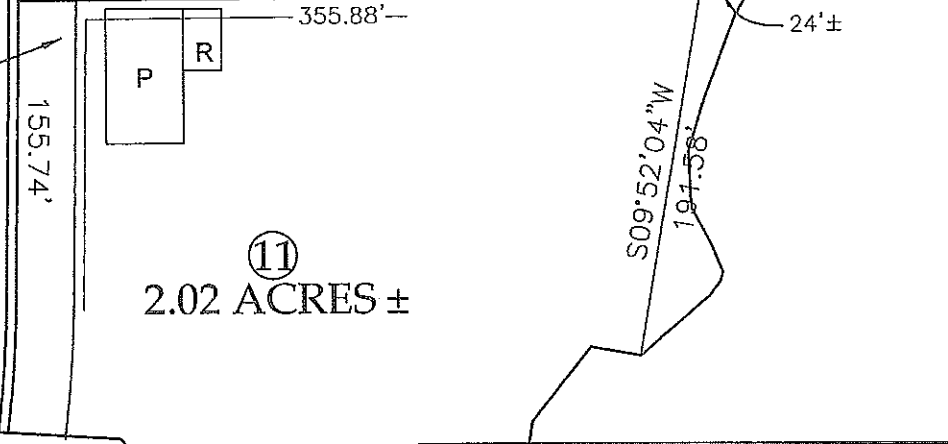
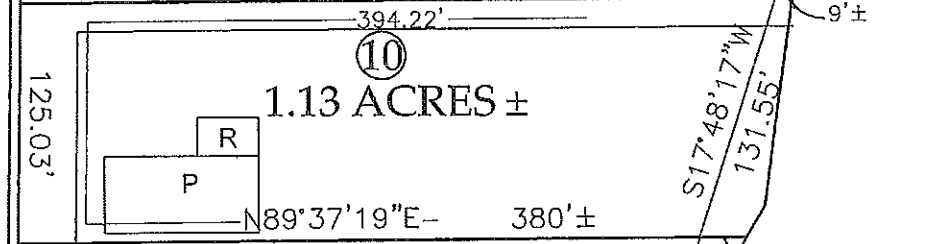
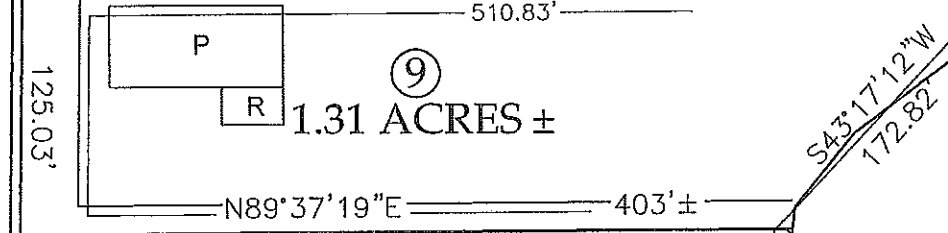
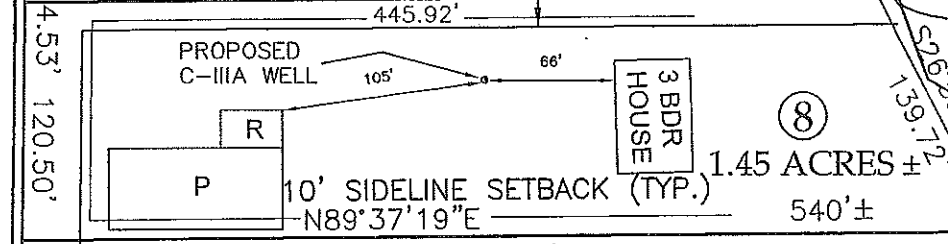
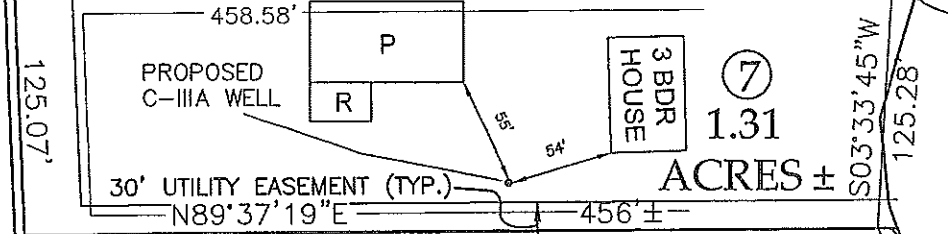
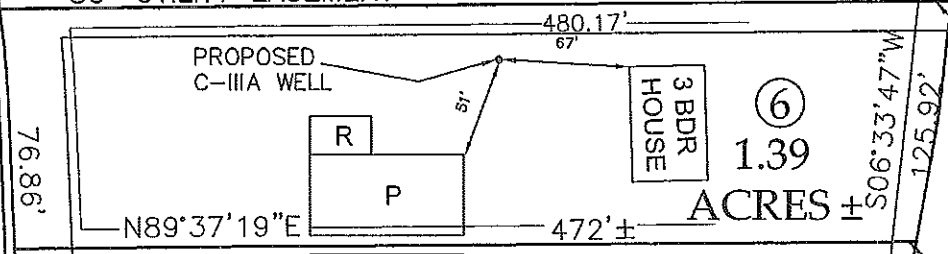
- | | | |
|---|------------|---------------------------|
| A. Estimated percolation Rate | <u>45</u> | MPI |
| B. Require trench bottom square feet/bedroom | | |
| From Table 5.4 based on: | | |
| 1 Gravity | <u>344</u> | FT ² /BDR |
| 2 Conditional Permit - Low Flow plumbing Fixtures | <u>229</u> | FT ² /100 gal. |
| C. 1 Number of Bedrooms | | |
| 2 Design Flow | <u>3</u> | |
| | <u>450</u> | |

Area Calculations

- | | | | |
|--|---------------|--------------------------|-------------|
| D. Length of trench | <u>80</u> | Length of available area | <u>90</u> |
| E. Width of trench | <u>3</u> | | |
| F. Number of trenches | <u>5</u> | | |
| G. Center-to-center spacing | <u>9</u> | | |
| H. Width required | <u>39</u> | Width of available area | <u>42.5</u> |
| I. Total square footage required | | | |
| Per bedroom (B1*C1) | <u>1032</u> | | |
| Per 100 gpd (B2*C2) | <u>1030.5</u> | | |
| J. Square footage in design
(D*E*F) | <u>1200</u> | | |
| K. Is reserve area required? | <u>Yes</u> | | |

30' UTILITY EASEMENT N89°37'19"E — 498'±

PAGE 4 OF 7



EXISTING BOUNDARY LINE TO BE ABANDONED

Title	Plot Plan For Lot 8, Subdivision Approval		
Reference Subtitle	Bowman, Green, Hampton & Kelly, PLLC Specific Site Layout		
Drawn By	DRM	Approved By	DRM
Date	5/21/2010	Scale	1" = 100'
Revision	0	Drawing No.	

Soil Summary Report

GENERAL INFORMATION

Date 5/10/2010 Submitted to Northumberland Health Department
Applicant Bowman, Green, Hampton & Kelly, PLLC Telephone No. 757/ 819-6062
Address 501 Ind. Pkwy., Suite 201 Chesapeake, VA 23320
Owner _____ Address _____
Location 360E, L/T Sunnybank Road, L/T Oyster Point Drive, property on right.
Tax Map 38 (1) 63 Subdivision B&L Farms
Block/Section _____ Lot 8

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory? Yes
Describe Open farm field, flat, well drained soils.
2. Slope 0 %
3. Depth to rock or impervious strata: Range in inches: _____ None X
4. Seasonal/perched water table present? No Range in inches: _____
5. Free water present? No Range in inches: _____
6. Soil percolation rate estimated? Yes Texture group II
Estimated rate 45 min/inch @ 38 inch depth
7. Permeability test performed? No
Type of test and results: _____

Site Approved: Drainfield to be placed at 38" depth at site designated on permit.

Site Disapproved: Recommendations for engineered system: _____

Reasons for rejection:

1. Position in landscape subject to flooding or periodic saturation
2. Insufficient depth of suitable soil over hard rock
3. Insufficient depth of suitable soil over seasonal water table
4. Rates of absorption too slow
5. Insufficient area of acceptable soil for require drainfield, and/or reserve
6. Proposed system too close to well
7. Other Specify _____

(attach additional pages if necessary)

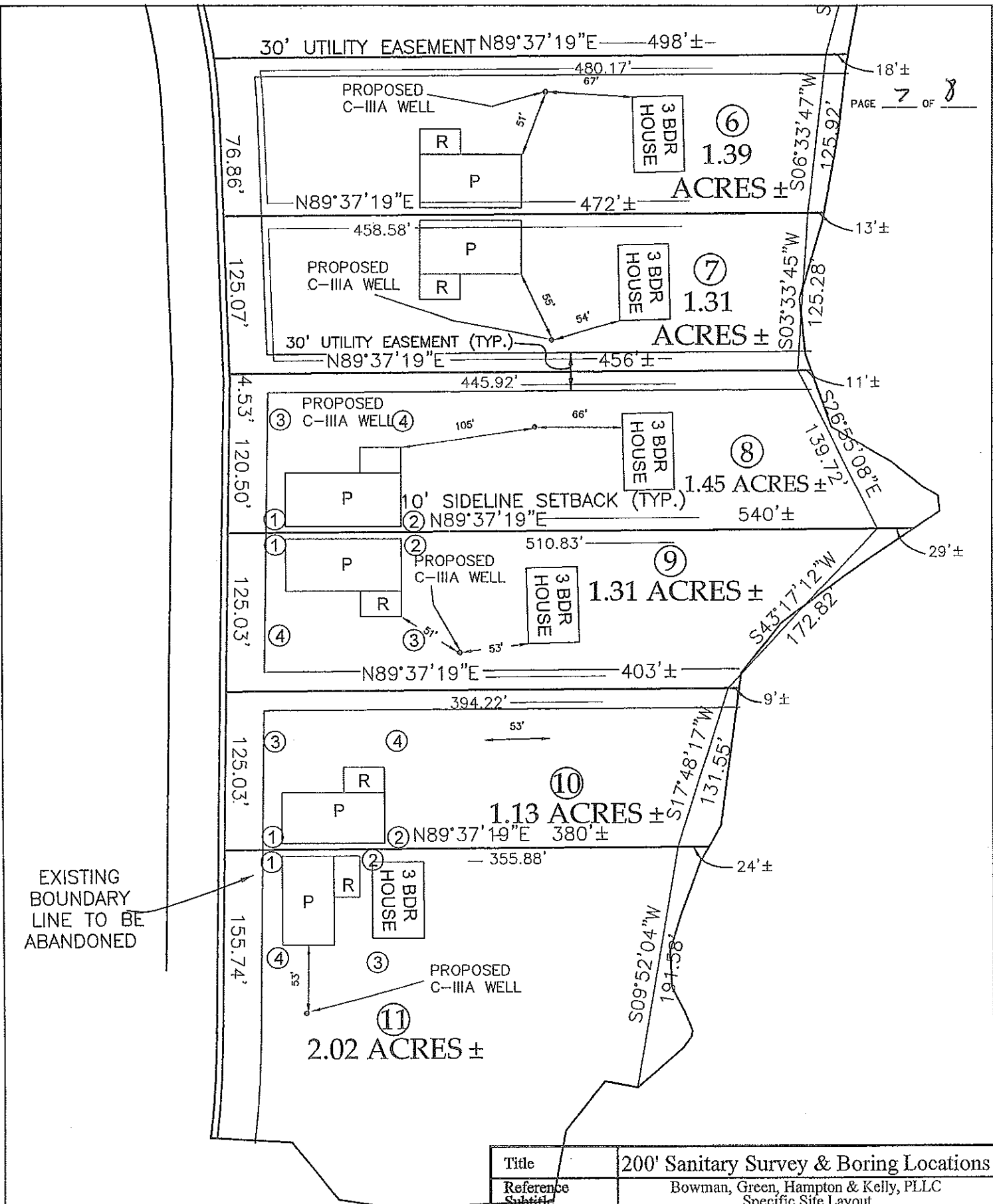
Soil Profile Description Report

Date of evaluation 4/26/2010

See attached sketch for soil boring locations

Hole	Horizon	Depth	Soil Boring Description of color, texture, etc.	Texture Group
1	A	0-08	10YR 5/3 SL	II
	B	08-26	10YR 5/8 SCL (Heavy)(Friable)	II
	B	26-36	10YR 5/6 mottled few 10YR 6/4 SCL (Medium)	II
	C	36-42	10YR 5/6 SL (Coarse)	II
	C	42-54	10YR 6/6 LS (Coarse)	I
2	C	54-60	10YR 7/4 mottled 7.5YR 5/6 LS (Coarse)	I
	A	0-06	10YR 5/3 SL	II
	B	06-20	10YR 5/6 SCL (Heavy)	II
	B	20-24	10YR 5/6 mottled few 10YR 6/4 SCL (Medium) with some iron mottles (Not water table)	II
	B	24-36	10YR 5/6 mottled few 10YR 6/4 SCL (Light) with some iron mottles/nodules (Not water table)	II
3	C	36-48	10YR 5/6 SL (Coarse)	II
	C	48-60	10YR 6/6-7/6 mottled 10YR 8/4,7.5YR 5/8 LS (Coarse)	I
	A	0-10	10YR 5/3 SL	II
	B	10-26	10YR 5/8 SCL (Heavy)	II
	B	26-30	10YR 5/6 SCL (Medium) with few small iron nodules (Not water table)	II
4	C	30-40	10YR 5/6 mottled few 10YR 6/4 SL (Coarse)	II
	C	40-56	10YR 6/6 LS (Coarse)	I
	C	56-60	10YR 8/3 LS-S (Coarse)	I
	A	0-06	10YR 5/3 SL	II
	E	06-12	10YR 6/4 SL	II
	B	12-30	10YR 5/6 SCL (Heavy)	II
	B	30-36	10YR 5/6 mottled 10YR 6/4 SCL (Medium)	II
	C	36-42	10YR 5/6 SL (Coarse)	II
	C	42-56	10YR 6/6 LS-S (Coarse)	I
	C	56-60	10YR 8/3 LS-S (Coarse)	I

Key:	S -	Sand	Remarks: Lot 8
	LS -	Loamy Sand	
	SL -	Sandy Loam	
	L -	Loam	
	SCL -	Sandy Clay Loam	
	CL -	Clay Loam	
	SiL -	Silty Loam	
	SiCL -	Silty Clay Loam	
	SC -	Sandy Clay	
	SiC -	Silty Clay Loam	
	C -	Clay	



EXISTING BOUNDARY LINE TO BE ABANDONED

Title	200' Sanitary Survey & Boring Locations		
Reference Subtitle	Bowman, Green, Hampton & Kelly, PLLC Specific Site Layout		
Drawn By	DRM	Approved By	DRM
Date	5/21/2010	Scale	1" = 100'
Revision	0	Drawing No.	

"Puraflo Biofilter" Design Checklist

City/County: Northumberland
Client: Bowman, Green, Hampton & Kelly, PLLC
Tax Map#: 38 (1) 63 (Part)
Subdivision: B&L Farms
Lot #: 8

Residential use Commercial use
Number of Bedrooms: 3 Design Flow: 450 gpd
Basement Number of Modules 4
Module Configuration:
End to End Side by Side Cloverleaf

Slope over disposal field area: 0 %
Fall across pad: 0 inches
Estimated percolation rate: 45 mpi
Design percolation rate: 45 mpi
Depth to seasonal high water table: N/A rock: N/A restrictive layer: N/A
Wooded: Cleared: Open:

Pad size: 20'x32' (Reserve) Trenches: _____
Installation depth: 38"
Location of reserve: This is reserve, Primary is conventional.

Installation notes:

Required - $450 \text{ gpd} \div 0.74 \text{ gal/ft}^2 = 608 \text{ ft}^2$
Provided - $20' \times 32' = 640 \text{ ft}^2$



**COMMONWEALTH OF VIRGINIA
VIRGINIA DEPARTMENT OF HEALTH**

Northumberland County Health Department

P.O. Box 69

Heathsville, Virginia 22473

(804) 580-8827

September 17, 2010

B & L Farms
501 Independence Pkwy.
Chesapeake, Virginia 23320

Re: Tax Map # ; HDID # 166-10-195
North 38(1)63 Lot #8

Rt. 360E. Oyster Pt. Rd.
Burgess, Virginia 22432
Subdivision: Section: Lot: 8 Lot Size: Acre(s)

Dear B & L Farms:

This Certification Letter is issued in lieu of a sewage disposal system construction permit in accordance with §32.1-163, et seq., of the Code of Virginia. The Board of Health hereby recognizes that the soil and site conditions acknowledged by this correspondence, and documented by additional records on file at the local health department, are suitable for the installation of an onsite sewage disposal system. The attached plat shows the approved area for the sewage disposal system. This letter is valid until a permit for construction is issued and the system is installed, inspected and approved. This letter is void if there is any substantial physical change in the soil or site conditions where the sewage disposal system is to be located.

A permit to construct the sewage disposal system must be issued before construction of the system. If the property owner (current or future) applies for a construction permit within 18 months of the date of this letter, the application fee paid for this letter shall be applied to any state fees for a permit to construct a system. After 18 months, the applicant is responsible for paying all state fees for a permit application.

This letter, and accompanying plat of survey showing the specific location of the sewage

disposal system area and well area (if applicable), may be recorded in the land records by the clerk of the circuit court in the jurisdiction where all or part of the site or proposed site of the system is to be located. The site shown on the plat is specific and must not be disturbed or encroached upon by any construction. To do so voids this letter. Upon the sale or transfer of the land that is the subject of this letter, the letter shall be transferred with the title to the property.

Future owners are advised to review the plat for the location of the onsite sewage disposal area to make sure their building plans do not interfere with the area. If they have any questions regarding the location of the area, they should contact the local health department for assistance.

The area evaluated, and certified by this letter, is suitable to accommodate a 3 bedroom house using a system design of 450 gallons per day. The property will be served by a private water supply as shown on the attached plat. Owners are further advised that when connection to a public water system is proposed and the public water system has reached its permitted capacity, a permit for construction may not be issued until such time that a connection is approved and available for use.

This letter is an assurance that a sewage disposal system construction permit will be issued (provided there have been no substantial physical changes in the soil or site conditions where the system would be located); however, it is not a guarantee that a permit for a specific type of system will be issued. The design of the sewage system will be determined at the time of application for a building permit and sewage system construction permit. The design will be based on the site and soil conditions certified by this letter, structure size and location, water well location (final determination to be made at time of permit issuance), the regulations in effect at the time, and any off-site impacts that may have occurred since the date of the issuance of this letter. In some cases, engineered plans may be required prior to issuance of the construction permit. In accordance with § 32.1-164.1:1 of the Code of Virginia, owners are advised to apply for a sewage disposal construction permit only when ready to begin construction.

This certification letter may be subject to and must comply with any applicable local ordinances. If you have any questions, please contact me.

Issued by: John Pittman


Environmental Health Specialist

STATE OF VIRGINIA, COUNTY/CITY OF Northumberland, to wit:

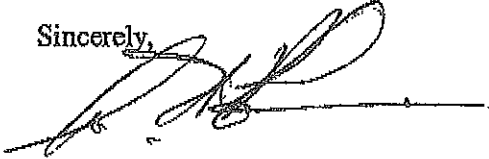
Subscribed and acknowledged before me by John Pittman on this 17th day of September, 2010

Beverly B. O'Brien # 157281

NOTARY PUBLIC for the
STATE OF VIRGINIA AT LARGE

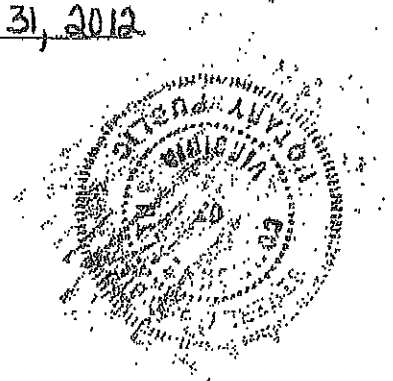
My Commission expires March 31, 2012

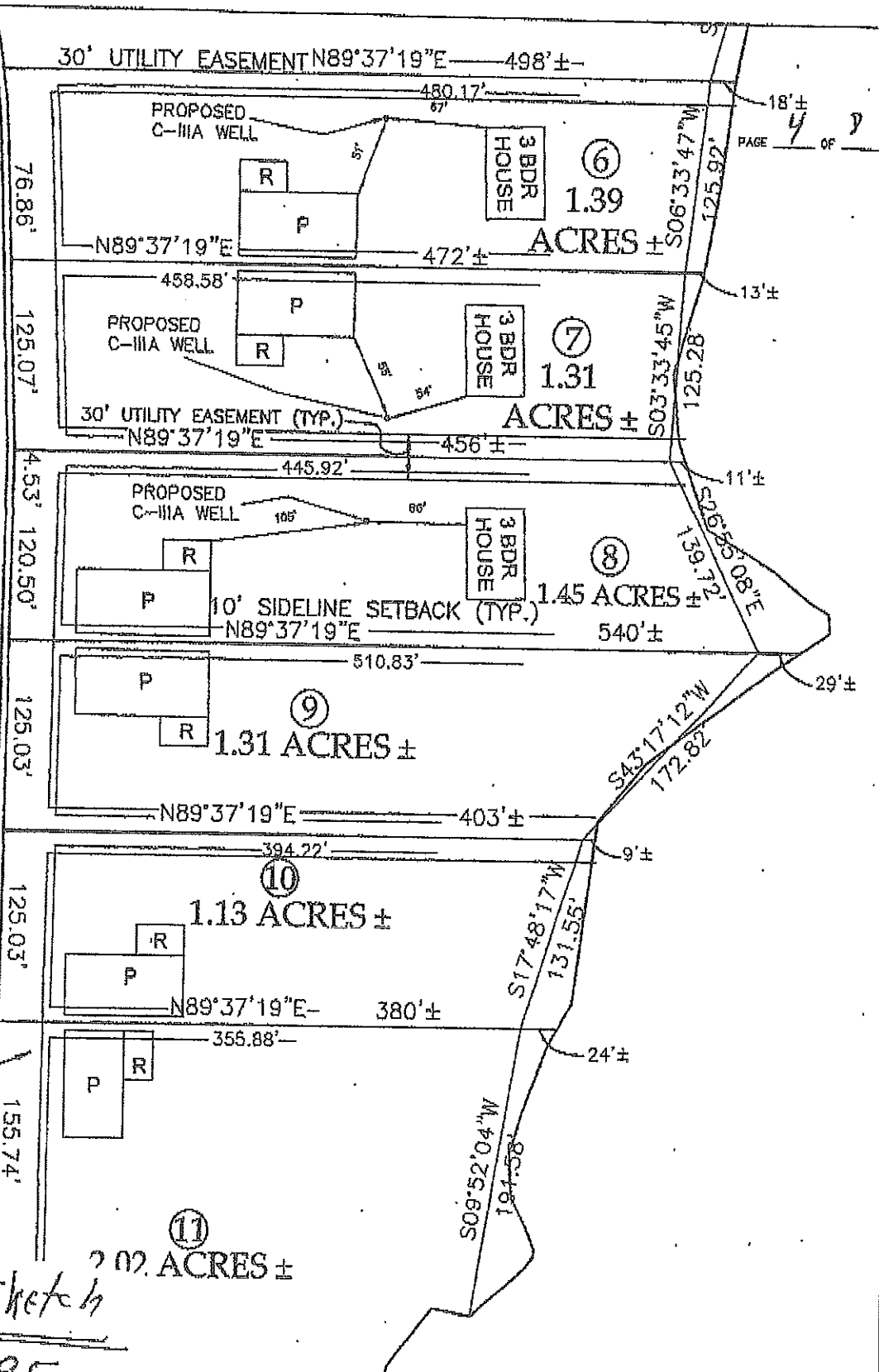
Sincerely,



John Pittman

Attachment: site sketch
pg:





EXISTING BOUNDARY LINE TO BE ABANDONED

Cont. Letter Sketch

I.D.# 166-10-195

T.M.# 38063 Lot #8

Title	Plot Plan For Lot 8, Subdivision Approval		
Reference Subtitle	Bowman, Green, Hampton & Kelly, PLLC Specific Site Layout		
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