

AOSE/PE Report for Certification Letter

Location of property:	Lot <u>PARCEL 6 ACRES</u> Section <u> </u> , Subdivision <u> </u> , <u>Powhatan County</u> Tax Map # <u> </u> Latitude/Longitude <u> </u>
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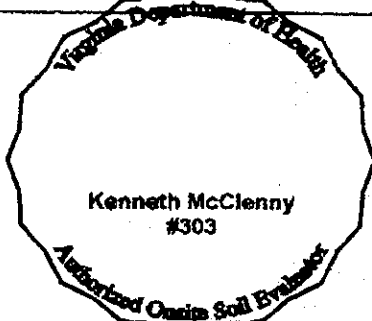
Applicant or Client and address: <u>CABEL METTS</u> <u>30 HIGH POCKETTS ROAD</u> <u>CATERSVILLE, Va. 23027</u>	Prepared by AOSE/PE: <u>Kenneth McClenny; AOSE 303</u>
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Date of Report: <u>9/27/2010</u> Revision Date(s): <u> </u>	AOSE/PE Job Number: <u> </u> (optional) Health Department I.D. No.: <u> </u>
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Certification Statement(s)

<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>I recommend a <u>Certification Letter</u> be <u>approved</u>.</p>	
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Installation & RESERVE Area Soil Summary Report

GENERAL INFORMATION

Date September 27, 2010 Submitted to Powhatan County Health Department
Applicant CABEL METTS Telephone (804-814-1955)
Address 30 HIGH POCKETTS ROAD CATERSVILLE, Va. 23027
Owner Same as above Address Same as above
Location From HWY 60 EAST TAKE A RIGHT ON ROUTE 622 TO A RIGHT ON ROUTE 639 PROPERTY ON THE LEFT
Tax Map _____ Subdivision _____
Block _____ Section _____ Lot PARCEL 6 ACRES Install. System type: Conventional Trench (Upper portion)

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes ☒ No ☐
Describe SIDESLOPE
 2. Slope 6 %
 3. Depth to rock or impervious strata: Max. _____ Min. _____ None ☒
 4. Depth to seasonal or perched water table indicators No ☒ Yes ☐ _____ inches
 5. Free water present No ☒ Yes ☐ _____ range in inches
 6. Soil percolation rate estimated Yes ☒ No ☐ Texture group III
*Estimated Rate 65
 7. Permeability test performed Yes ☐ No ☒
- If yes, note type of test performed and attach: _____

**All applicable regulations and the specific soil and site conditions (including the trench sidewalls) were taken into consideration when the estimated percolation rate was assigned.*

☒ Site Approved: Primary drainfield to be placed at 86 inch depth at site designated in this package.
If required, reserve to be placed at 86 inch depth at site designated in this package.

☐ Site Disapproved

Reason(s) for rejection:

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

(attach additional pages if necessary)

The information presented in this submittal package represents the best available information as of the evaluation date noted on the soil profile description report contained in this package. Due to the potential for subsequent events to negatively impact the recommendations made in this package, it is our firm's very strong recommendation to submit this documentation to the local health department for approval as soon as it is received by the client. Failure to do so may render the information contained in this package void. M&M Soil Consultants, Inc. as well as the certifying individual, accept no liability for subsequent events that occur after the date of evaluation.

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SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation: May 10, 2010

CABEL METTS

PARCEL 6 ACRES

Where the local health department conducts the soil evaluation, the location of the profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features, i.e., sewage disposal systems, wells, etc., within 100 feet of site (See Section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

☐ See application sketch page

☐ See construction permit

☒ See sketch attached to this form

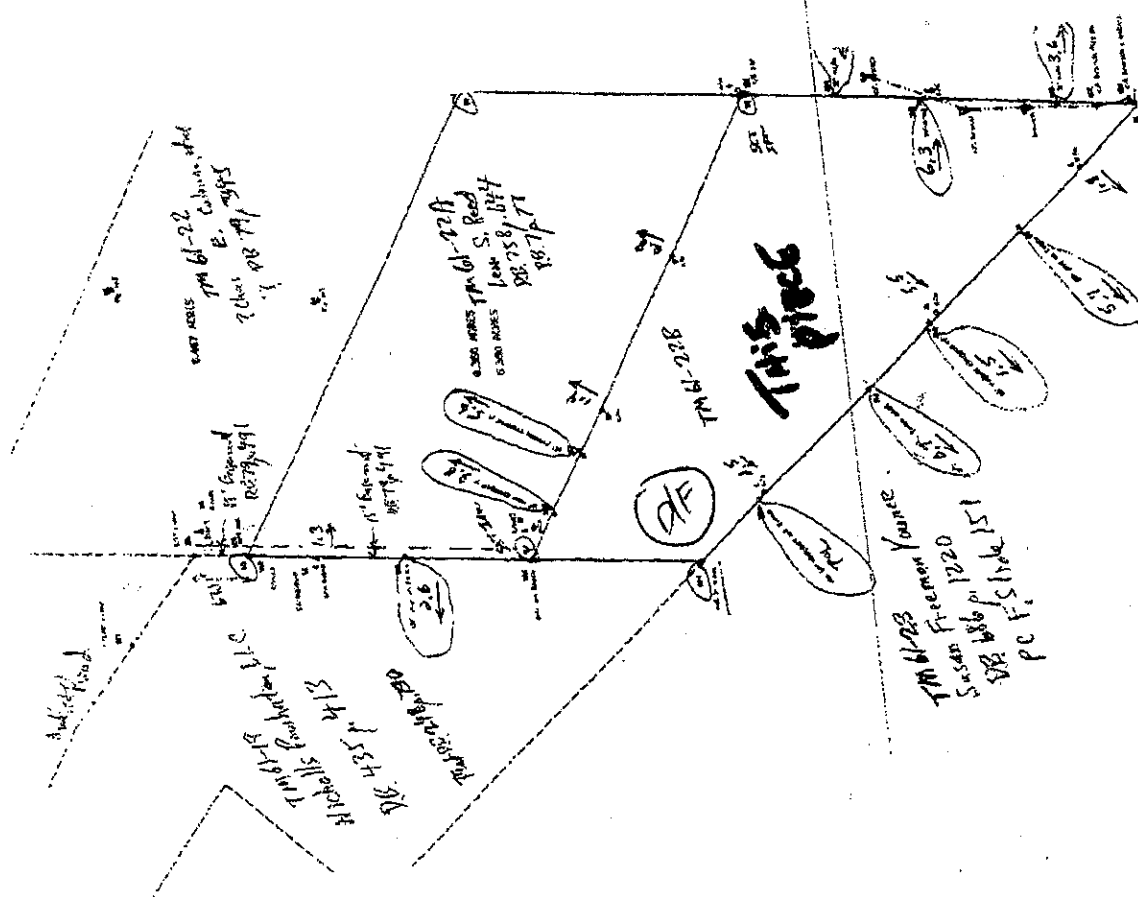
Hole	Horizon	Depth (Inches)	Description of color, texture, etc.	Texture Group
1	A	0-8	10YR 4/3 LOAM	II
	Bt1	8-28	2.5YR 4/8 CLAY	IV
	Bt2	28-40	2.5YR 4/8 & 5/8 SILTY CLAY LOAM	III
	BC	40-70	2.5YR 5/8 & 5YR 6/6 SILTY CLAY LOAM FRIABLE	III
	C	70-108	2.5YR 4/8, 7.5YR 6/8 & BLACK PARENT COLORS SILT LOAM FRIABLE	III
2	A	0-8	10YR 4/3 LOAM	II
	Bt	8-28	2.5YR 5/6 CLAY	IV
	BC	28-48	2.5YR 5/6 SILTY CLAY LOAM	III
	C1	48-70	5YR 5/8 MICA LOAM FRIABLE	II
	C2	70-108	5YR 6/8 & 5/8 SILT LOAM FEW FELDSPARS	III
3	A	0-10	10YR 4/3 LOAM	II
	Bt	10-30	2.5YR 4/8 CLAY	IV
	BC	30-50	2.5YR 4/8 & 5/8 SILTY CLAY LOAM	III
	C	50-108	5YR 6/6, 4/6 & 7.5YR 5/6 SILT LOAM FRIABLE	III
4	A	0-10	10YR 4/3 LOAM	II
	Bt1	10-20	5YR 5/6 CLAY	IV
	Bt2	20-40	5YR 5/6 & 7.5YR 5/6 HEAVY CLAY LOAM	III
	BC	40-60	2.5YR 5/8 & 5YR 5/6 SILTY CLAY LOAM FRIABLE	III
	C	60-108	5YR 5/6, 6/6 & 7.5YR 5/6 WITH BLACK PARENT COLORS SILT LOAM FRIABLE	III
5	A	0-10	10YR 4/3 LOAM	II
	Bt	10-28	2.5YR 4/8 CLAY	IV
	BC	28-56	2.5YR 4/8 & 5/8 SILTY CLAY LOAM	III
	C	56-108	5YR 6/6, 4/6 & 7.5YR 5/6 LOAM FRIABLE	II

Installation Area Abbreviated Design Form			
A. System type (Conv., Drip, Drip Mound, Puraflow pad, Puraflow Trench, Advantex, etc.)		<i>Conventional Trench</i>	
B. Estimated or measured Percolation Rate		<i>65.0 mpi</i>	
C. Slope		<i>6.0 percent</i>	
D. Depth of Evaluation		<i>108 inches</i>	
E. Proposed Installation Depth		<i>86 inches</i>	
F. Installing below restriction? <i>No</i>			
G. Minimum Installation Depth (factors in slope, system type, etc.)		<i>18 inches</i>	
H. Type of limiting feature		<i>None (Depth of Evaluation)</i>	
I. Depth of limiting feature		<i>108 inches</i>	
J. Minimum required stand-off to limiting feature		<i>18 inches</i>	
K. Stand-off distance provided in design		<i>22 inches</i>	
L. Design based on number of bedrooms		<i>3 bedrooms</i>	
M. Square Footage required per bedroom (per gallon if design based on gpd)		<i>496.00 sq. ft.</i>	
N. Available Area Across Slope		<i>100 feet</i>	
O. Proposed Width of System (Line length, Pad width, Active Mound width, etc.)		<i>100 feet</i>	
P. Width of Trench		<i>3 feet</i>	
Q. Center spacing increase due to slope		<i>0 feet</i>	
R. Center-to-center spacing (includes correction for slope)		<i>9 feet</i>	
S. Number of Lines		<i>5</i>	
T. Available area Down Slope (includes area for reserve if combined in this site)		<i>66 feet</i>	
U. Down slope distance required for installation		<i>39 feet</i>	
V. Total Square Footage required for installation		<i>1,488.00 sq.ft.</i>	
W. Total Square Footage in Design		<i>1500 sq.ft.</i>	
Does this site require a reserve area?		<u>Yes</u>	Amount Required
Does this site have a reserve area included within it?		<u>Yes</u>	
Available area across slope for Reserve		<i>100 feet</i>	
Available area down slope for Reserve		<i>21 feet</i>	
Total square footage available for Reserve		<i>2100 sq.ft.</i>	
Notes:			
<i>To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.</i>			

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Reserve Area Abbreviated Design Form			
A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.)		<i>Puraflo 3' trench</i>	
B. Estimated or measured Percolation Rate		<i>65.0 mpi</i>	
C. Slope		<i>6.0 percent</i>	
D. Depth of Evaluation		<i>108 inches</i>	
E. Proposed Installation Depth		<i>86 inches</i>	
F. Installing below restriction? <i>No</i>			
G. Minimum Installation Depth (factors in slope, system type, etc.)		<i>18 inches</i>	
H. Type of limiting feature <i>None (Depth of Evaluation)</i>			
I. Depth of limiting feature		<i>108 inches</i>	
J. Minimum required stand-off to limiting feature		<i>12 inches</i>	
K. Stand-off distance provided in design		<i>22 inches</i>	
L. Design based on number of bedrooms		<i>3 bedrooms</i>	
M. Loading Rate		<i>0.68 gpd/sq.ft.</i>	
N. Available Area Across Slope		<i>100 feet</i>	
O. Proposed Width of Reserve (Line length, Pad width, Active Mound width, etc.)		<i>100 feet</i>	
P. Width of Trench		<i>3 feet</i>	
Q. Center spacing increase due to slope		<i>0 feet</i>	
R. Center-to-center spacing (includes correction for slope)		<i>9 feet</i>	
S. Number of Lines proposed for reserve		<i>3</i>	
T. Available area Down Slope (does not include installation area)		<i>21 feet</i>	
U. Down slope distance required for reserve		<i>21 feet</i>	
V. Total Square Footage required for reserve		<i>661.76 sq.ft.</i>	
W. Total Square Footage in Design		<i>900 sq.ft.</i>	
<p>Does this lot require a reserve area? <u>Yes</u> Amount Required <i>100 percent</i></p> <p>Does this site contain both installation and reserve? <u>Yes</u></p> <p>Available area across slope for Reserve <i>100 feet</i></p> <p>Available area down slope for Reserve <i>21 feet</i></p> <p>Total area in square footage available for Reserve <i>2100 sq.ft.</i></p> <p>Percent of Reserve Available <i>136 percent</i></p> <p>Notes:</p> <p><i>To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.</i></p>			

PS-60F7



PS. 70F7

