

Balserne

M&M Soil Consultants, Inc.
4512 Forest Chapel Road
Pamplin, Virginia 23958
(434)610-2696

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AOSE/PE Report for Subdivision Approval

Location of property:	Lot <u>1.619 ACRES</u> Section <u> </u> , Subdivision, Tax Map # <u>49-A-69A</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;AOSE1275</u>
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Date of Report: <u>2/9/2017</u>	AOSE/PE Job Number: <u> </u> (optional)
Revision Date(s): <u> </u>	Health Department I.D. No.: <u> </u>

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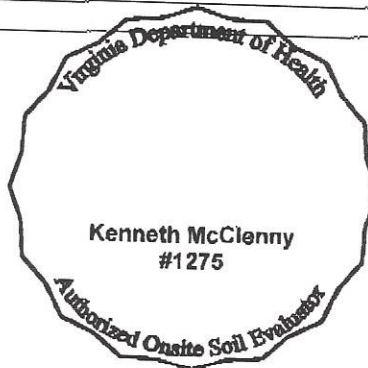
Page	Contents of report	Page	Contents of report
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Certification Statement(s)

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.

X The work Attached to this cover page has been conducted under an exemption to the practice of engineering, specifically the exemption in code of Virginia Section 54.1-402.A.11

I recommend a Subdivision Approval be approved.



Installation & RESERVE Area Soil Summary Report

GENERAL INFORMATION

Date February 9, 2017
Applicant Cabel Metts
Address 30 HIGH POCKETTS ROAD CATERSVILLE, Va. 23027
Owner Same as above
Location LOCATED ON ROUTE 681 1.0 MILES FROM THE INTERSECTION OF ROUTE 13 PROPERTY ON THE LEFT HEADED SOUTH
Tax Map 49-A-69A
Block Section Lot 1.619 ACRES
Submitted to Powhatan County Health Department
Telephone (804-814-1955)
Address Same as above
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 40

7. Permeability test performed Yes ☒ No ☐

**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.*

If yes, note type of test performed and attach:

☒ Site Approved: Primary drainfield to be placed at 72 inch depth at site designated in this package.
If required, reserve to be placed at 72 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.

SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation: March 15, 2016

Cabel Metts, 1.619 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

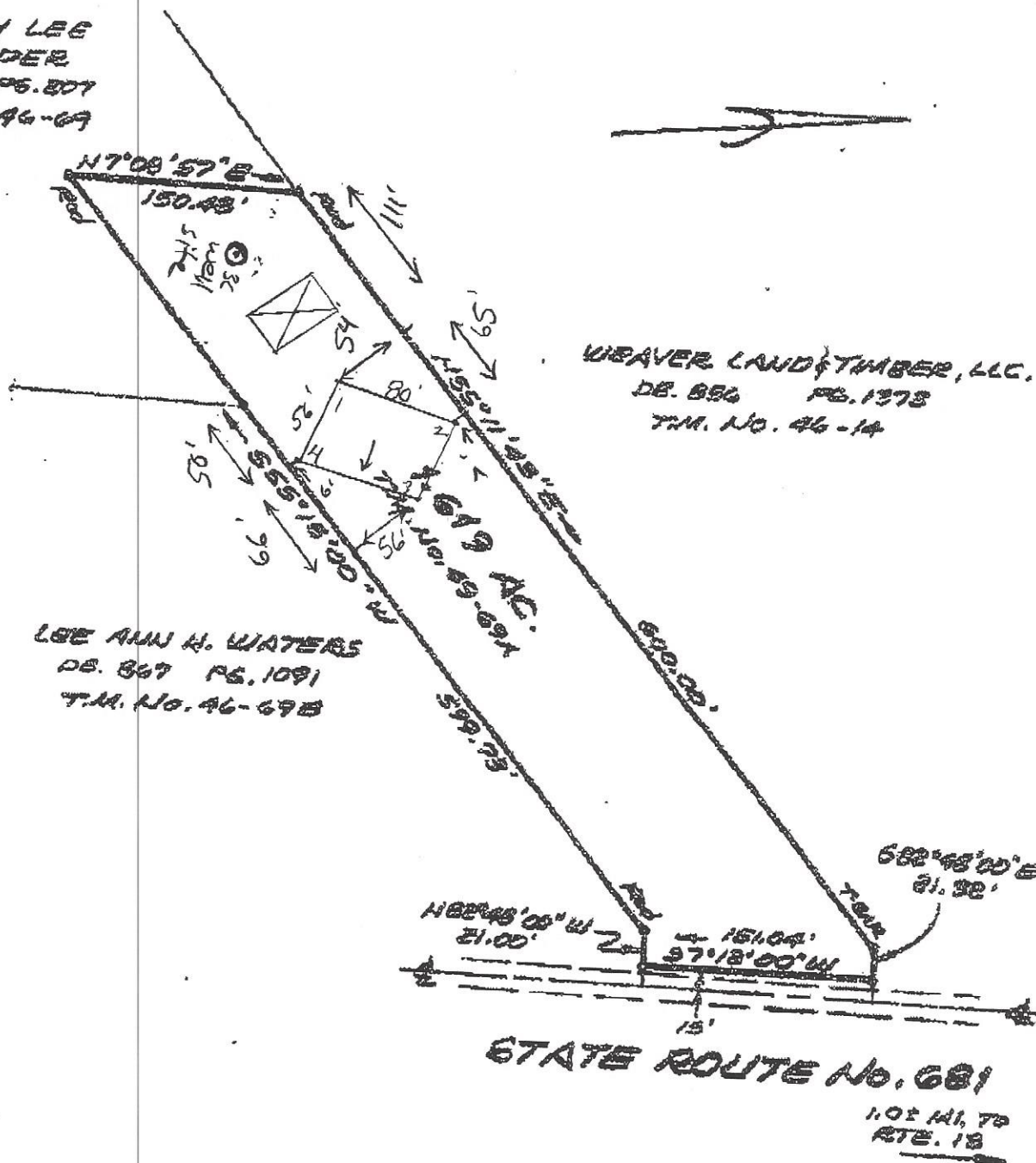
☒ See sketch attached to this form

Hole	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A	0-6	10YR 4/3 LOAM	II
	Bt	6-26	5YR 4/6 & 2.5YR 4/6 HEAVY CLAY LOAM	III
	BC	26-50	2.5YR 4/6 CLAY LOAM TO SANDY CLAY LOAM	III
	C	50-90	5YR 8/6 & 7.5YR 8/6 FINE SANDY LOAM FRIABLE	II
2	A	0-6	10YR 4/3 LOAM	II
	Bt	6-22	5YR 4/6 & 2.5YR 4/6 HEAVY CLAY LOAM	III
	BC	22-52	2.5YR 4/6 & 6/6 CLAY LOAM TO SANDY CLAY LOAM	III
	C	52-90	5YR 8/6, 7.5YR 8/6 & 8/3 SANDY LOAM FRIABLE	II
3	A	0-6	10YR 4/3 LOAM	II
	Bt	6-24	5YR 4/6 & 2.5YR 4/6 HEAVY CLAY LOAM	III
	BC	24-48	2.5YR 4/6 & 6/6 SANDY CLAY LOAM	III
	C	48-90	7.5YR 8/6 & 5YR 8/6 SANDY LOAM FRIABLE	II
4	A	0-6	10YR 4/3 LOAM	II
	Bt	6-22	5YR 4/6 HEAVY CLAY LOAM SOM BLACK PARENT COLORS	III
	BC	22-60	5YR 4/6 & 6/6 CLAY LOAM	III
	C	60-90	5YR 8/6 & 6/6 LOAM FRIABLE	II

Installation Area Abbreviated Design Form			
A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.)		Conventional Trench	
B. Estimated or measured Percolation Rate		40.0 mpi	
C. Slope		6.0 percent	
D. Depth of Evaluation		90 inches	
E. Proposed Installation Depth		72 inches	
F. Installing below restriction? <u>No</u>			
G. Minimum Installation Depth (factors in slope, system type, etc.)		18 inches	
H. Type of limiting feature <u>None (Depth of Evaluation)</u>			
I. Depth of limiting feature		90 inches	
J. Minimum required stand-off to limiting feature		18 inches	
K. Stand-off distance provided in design		18 inches	
L. Design based on number of bedrooms		3 bedrooms	
M. Square Footage required per bedroom (per gallon if design based on gpd)		314.00 sq. ft.	
N. Available Area Across Slope		80 feet	
O. Proposed Width of System (Line length, Pad width, Active Mound width, etc.)		80 feet	
P. Width of Trench		3 feet	
Q. Center spacing increase due to slope		0 feet	
R. Center-to-center spacing (includes correction for slope)		9 feet	
S. Number of Lines		4	
T. Available area Down Slope (includes area for reserve if combined in this site)		56 feet	
U. Down slope distance required for installation		30 feet	
V. Total Square Footage required for installation		942.00 sq.ft.	
W. Total Square Footage in Design		960 sq.ft.	
<p>Does this site require a reserve area? <u>Yes</u> Amount Required <u>100 percent</u></p> <p>Does this site have a reserve area included within it? <u>Yes</u></p> <p>Available area across slope for Reserve <u>80 feet</u></p> <p>Available area down slope for Reserve <u>20 feet</u></p> <p>Total square footage available for Reserve <u>1600 sq.ft.</u></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>			

Reserve Area Abbreviated Design Form			
A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.)		Advantex 3' trench	
B. Estimated or measured Percolation Rate		40.0 mpi	
C. Slope		6.0 percent	
D. Depth of Evaluation		90 inches	
E. Proposed Installation Depth		72 inches	
F. Installing below restriction? <u>No</u>			
G. Minimum Installation Depth (factors in slope, system type, etc.)		18 inches	
H. Type of limiting feature		None (Depth of Evaluation)	
I. Depth of limiting feature		90 inches	
J. Minimum required stand-off to limiting feature		12 inches	
K. Stand-off distance provided in design		18 inches	
L. Design based on number of bedrooms		3 bedrooms	
M. Loading Rate		1.11 gpd/sq.ft.	
N. Available Area Across Slope		80 feet	
O. Proposed Width of Reserve (Line length, Pad width, Active Mound width, etc.)		80 feet	
P. Width of Trench		3 feet	
Q. Center spacing increase due to slope		0 feet	
R. Center-to-center spacing (includes correction for slope)		9 feet	
S. Number of Lines proposed for reserve		2	
T. Available area Down Slope (does not include installation area)		20 feet	
U. Down slope distance required for reserve		12 feet	
V. Total Square Footage required for reserve		405.41 sq.ft.	
W. Total Square Footage in Design		480 sq.ft.	
<p>Does this lot require a reserve area? <u>Yes</u> Amount Required 100 percent</p> <p>Does this site contain both installation and reserve? <u>Yes</u></p> <p>Available area across slope for Reserve 80 feet</p> <p>Available area down slope for Reserve 20 feet</p> <p>Total area in square footage available for Reserve 1600 sq.ft.</p> <p>Percent of Reserve Available 118 percent</p> <p>Notes:</p> <p>To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.</p>			

SHIRLEY LEE
CROWDER
DB. 148 PG. 207
T.M. No. 46-69



PLAT SHOWING 1.619 ACRES
OF LAND LYING ON THE WEST
LINE OF STATE ROUTE No. 681

MACON DISTRICT - POWHATAN COUNTY, VA.

DATE: OCTOBER 21, 2015

SCALE: 1" = 100'

NOTE: