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

AOSE/PE Report for Subdivision Approval

Location of property:	Lot <i>LOT 6 SITE 2-M</i> S <i>Goochland County</i> Tax Map <i>27-1-0-15</i> Latitude/Longitude	Section, Subdi	vision <u>YOUNGSTOWN WOO</u>	ODS,
Applicant or Client and address:		Dranarad	hy AOSE/PE	
NEW VENTURES REAL ESTATE 1664 ANDERSON HWY SUITE F POWHATAN, VA 23139	Prepared by AOSE/PE: KENNETH MCCLENNY; AOSE#1275			
Date of Report: <u>3/21/2018</u>		AOSE/PE Job Number:		(optional)
Revision Date(s):,,	_	Health Departn	nent I.D. No.:	
Contents/Index of this report: Page Contents of re		Page	Contents of report	
Installation Area Soil Summary I Soil Profile Description Report Installation Area Abbreviated Design Reserve Area Abbreviated Design Soil Profile Description Report Survey Documentation	sign			
Certification Statement(s)			Department	
I hereby certify that the evaluations and/herein were conducted in accordance with and Disposal Regulations (12 VAC5-610). Regulations (12 VAC5-615), and other a Virginia Department of Health. Furtherm evaluation and/or design contained herein applicable laws, regulations, and policies Virginia Department of Health. X The work attached to this cover page hunder an exemption to the practice of engine the exemption in code of Virginia Section I recommend a Subdivision Approval be	h the Sewage Handling b), the Private Well pplicable policies of the tore, I certify that my n complies with all implemented by the tas been conducted gineering, specifically n 54.1-402.A.11		Kenneth McClenny #0001275	

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Installation & Reserve Area Soil Summary Report					
GENERAL INFORMATION					
Date <u>March 21, 2018</u> Submitted to <u>Goochland County</u> Health Department					
Applicant <u>NEW VENTURES REAL ESTATE</u> Telephone (804-814-1955)					
Address 1664 ANDERSON HWY SUITE F , POWHATAN, VA 23139					
Owner <u>Same as above</u> Address <u>Same as above</u>					
Location <u>located on route 680 YOUNGSTOWN ROAD .5 miles from the intersection of HWY 6 Property on BOTH SIDES OF</u> <u>THE ROAD</u>					
Tax Map <u>27-1-0-15</u> Subdivision <u>YOUNGSTOWN WOODS</u>					
Block Section Lot <u>LOT 6 SITE 2-M</u> Install. System type: <u>Conventional Trench (Upper portion)</u>					
SOIL INFORMATION SUMMARY					
1. Position in landscape satisfactory Yes ☒ No ☐ Describe <u>Piedmont Sideslope</u>					
2. Slope <u>8</u> %					
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 Texture group IIB *All applicable regulations and the specific soil *Forting and the specific soil					
No ☐ *Estimated Rate 45 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 54 inch depth at site designated in this package.					
Site Approved: Primary drainfield to be placed at <u>54</u> inch depth at site designated in this package. If required, reserve to be placed at <u>54</u> inch depth at site designated in this package.					
☐ Site Disapproved					
Reason(s) for rejection:					
 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)					
10 A					

SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation: November 15, 2017

NEW VENTURES REAL ESTATE , YOUNGSTOWN WOODS , LOT 6 SITE 2-M

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.

	ee appl	ication ske	etch page	attached to this form
Hole	Horizo	r Depth (inches)	Description of color, texture, etc.	Texture Group
1	A	0-8	10YR 4/3 LOAM	II
	Bt	8-20	5YR 4/6 HEAVY CLAY LOAM	III
	BC	20-36	5YR 4/6 & 8/6 SANDY CLAY LOAM	III
	C	36-72	7.5YR 8/6 & 10YR 8/6 SANDY LOAM FRIABLE	II
2	A	0-8	10YR 4/3 LOAM	II
	Bt	8-22	5YR 4/6 HEAVY CLAY LOAM	III
	BC	22-40	5YR 4/6 & 8/6 CLAY LOAM TO SANDY CLAY LOAM	III
	С	40-72	5YR 8/6/ & 7.5YR 8/6 SANDY LOAM FRIABLE	II
3	Α	0-6	10YR 4/3 LOAM	II
	Bt	6-20	5YR 4/6 HEAVY CLAY LOAM	III
	BC	20-40	5YR 4/6 & 8/6 CLAY LOAM TO SANDY CLAY LOAM	III
	C	40-72	7.5YR 8/6, 5YR 8/6 & 7/6 SANDY LOAM FRIABLE	II
4	Α	0-8	10YR 4/3 LOAM	II
	Bt	8-22	5YR 4/6 & 6/6 CLAY LOAM	III
	BC	22-40	5YR 8/6 CLAY LOAM TO SANDY CLAY LOAM	III
	C	40-72	7.5YR 8/6 SANDY LOAM FRIABLE	II

444)010-2070	
Installation Area Abbreviated Design Form	Lote
	entional Trench
B. Estimated or measured Percolation Rate	45.0 mpi
C. Slope	8.0 percent
D. Depth of Evaluation	72 inches
E. Proposed Installation Depth	54 inches
F. Installing below restriction? No	
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	72 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
	244.00
M. Square Footage required per bedroom (per gallon if design based on gpd)	344.00 sq. ft.
N. Augilahla Arag Agraga Clana	70 feet
N. Available Area Across Slope O. Proposed Width of System (Line length, Pad width, Active Mound width, etc.)	70 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	5
T. Available area Down Slope (includes area for reserve if combined in this site)	66 feet
U. Down slope distance required for installation	39 feet
V. Total Square Footage required for installation	1,032.00 sq.ft.
W. Total Square Footage in Design	1050 sq.ft.
Described as a second second of the second o	100 percent
Does this site require a reserve area? <u>Yes</u> Amount Required Does this site have a reserve area included within it? Yes	100 percent
	70 feet
Available area across slope for Reserve Available area down slope for Reserve	21 feet
Total square footage available for Reserve	1470 sq.ft.
Total square rootage available for reserve	2.70 5494

Notes:

To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.

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(43,4)610-2696	
Reserve Area Abbreviated Design Form	cb6
A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.) Adva	antex 3' trench
B. Estimated or measured Percolation Rate	45.0 mpi
C. Slope	8.0 percent
D. Depth of Evaluation	72 inches
E. Proposed Installation Depth	54 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)	70 1 1
I. Depth of limiting feature	72 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	0.99 gpd/sq.ft.
N. Available Area Across Slope	70 feet
O. Proposed Width of Reserve (Line length, Pad width, Active Mound width, etc.	70 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	3
T. Available area Down Slope (does not include installation area)	21 feet
U. Down slope distance required for reserve	21 feet
V. Total Square Footage required for reserve	454.55 sq.ft.
W. Total Square Footage in Design	630 sq.ft.

Does this lot require a reserve area?	Yes	Amount Required		100 percent
Does this site contain both installation and reserve?		<u>Yes</u>		
Available area across slope for Reserve				70 feet
Available area down slope for Reserve				21 feet
Total area in square footage available for Reserve			•	1470 sq.ft.
Percent of Reserve Available				139 percent

Notes:

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To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.

