

Southwest Soils, Inc.

On-site wastewater consulting

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October 5, 2018

RE: Pulaski County, Tract #1 of The A Dow Owens Farm , 6.879 acres

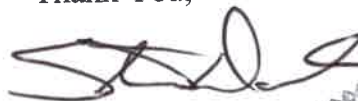
To Whom It May Concern,

A site visit was made on 10/8/18 to the above referenced property to determine the feasibility of locating an onsite sewage disposal system. The site was evaluated with a hand auger in the proposed location to determine if the soils were acceptable under the current Virginia Sewage Handling and Disposal Regulations. A suitable area was found that meets the regulations for a 3 Bedroom(450 GPD) onsite sewage system. The proposed area is identified with wooden stakes that are marked with pink flagging.

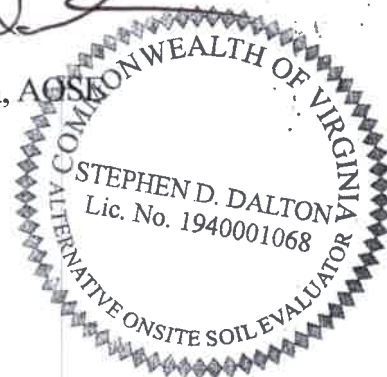
This report does not permit construction. A permit must be obtained from the Pulaski County Environmental Health Office prior to construction.

If you have any questions please feel free to contact Stephen Dalton at (276) 728-3222.

Thank You,



Stephen Dalton, AGS



Commonwealth of Virginia

Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID# _____ (VDH Use)

Owner The A Dow Owens Farm Address _____

Phone _____

Agent SW Soils, Inc. Address P.O. Box 90 Phone (276) 728-3222
Woodlawn, VA 24381

Directions to Property: 4219 Black Hollow Road Dublin, VA

Subdivision The A Dow Owens Farm Phase _____ Lot #1

Other Property Identification _____

Map Reference _____

Dimension/size of Lot/Property 6.879acres

Residential Use Yes No

Termite Treatment Yes No

Single Family Multi-family

Number of bedrooms 3 Number of Units _____

Basement Undetermined No

Fixtures in Basement Yes No

Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: Septic Tank Drainfield

Water Supply: Public New Existing

Private New Existing

Describe: Class III-C well

The property lines, building location and sewage disposal system site are clearly marked and the property is sufficiently visible to see the topography. 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.

Signature of Owner/Agent _____ Date _____

Soil Summary Report

GENERAL INFORMATION

Date 10/11/18 Submitted to Pulaski County Health Department

Applicant _____ Telephone No. _____

Address _____

Owner Same Address _____Location: 4219 Black Hollow Road Dublin, VA .

Tax Map _____

Subdivision The A Dow Owens Farm Phase _____ Lot #1

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No _____Describe sideslope Physiographic Province Ridge and Valley2. Slope 12 %3. Depth to rock or impervious strata: Max. 48 Min. 48 in.4. Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches5. Free water present No Yes _____ range in inches6. Soil percolation rate estimated Yes Texture group I IIA IIB III IV
No _____ Estimated rate 90 min/inch

7. Permeability test performed Yes _____

No Recommended Installation Depth 22 in.

If yes, note type of test performed and attach

___ Site Approved: Drainfield to be placed at _____ depth at site designated on permit.

___ Site Disapproved:

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 to seasonal water table.
4. ___ Rates of absorption too slow.
5. ___ Insufficient area of acceptable soil for required drainfield, and/or Reverse Area.
6. ___ Proposed system too close to well.
7. ___ Other Specify _____.

Appendix 3

Evaluation Date: 5/2/18
 Evaluator: Stephen Dalton

DRAINFIELD

#1

A	0-6	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	6-28	III	Strong Brown (7.5YR 5/8), SILTY CLAY LOAM,
Bt2	28-48	III	Brownish Yellow (10YR 6/8), heavy SILTY CLAY LOAM Manganese

#2

A	0-7	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	7-20	III	Strong Brown (7.5YR 5/6), SILTY CLAY LOAM,
Bt2	20-28	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM Manganese
Bt3	28-48	IV	Strong Brown (7.5YR 5/8), SILTY CLAY Manganese

#3

A	0-5	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	5-20	III	Yellowish Red (5YR 5/6), SILTY CLAY LOAM,
Bt2	20-32	III	Yellowish Red (5YR 5/8), heavy SILTY CLAY LOAM Manganese
Bt3	32-48	IV	Strong Brown (7.5YR 5/8), SILTY CLAY Manganese

For use with gravity and pump drainfields, enhanced flow systems and low pressure distribution systems when applying for a certification letter or subdivision approval.

Design Basis

- A. Estimated Percolation Rate _____ 90 mpi _____
- B. Trench bottom square feet
Required per bedroom (from
Table 5.4 based on x Gravelless) _____ 590 _____
- C. Number of bedrooms _____ 3 _____

Area calculations

- D. Length of trench 100 ft. Length of available area 100 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 6
- G. Center-to-center spacing 10 ft.
- H. Width required 53 ft. Width of available area 66 ft.
G(F-1) + E
- I. Total square footage required _____ 1770 _____
(line B times line C)
- J. Square footage in design _____ 1800 _____
(D*E*F)
- K. Is a reserve area required? x Yes No(50%)

