

# Southwest Soils, Inc.

On-site wastewater consulting

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October 5, 2018

RE: Pulaski County, Tract #4 of The A Dow Owens Farm , 14.583 acres

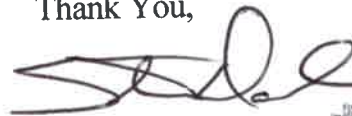
To Whom It May Concern,

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, AQSE



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 #4

Other Property Identification \_\_\_\_\_

Map Reference \_\_\_\_\_

Dimension/size of Lot/Property 14.583 acres

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 #4

**SOIL INFORMATION SUMMARY**

1. Position in landscape satisfactory Yes  No \_\_\_\_\_

Describe sideslope Physiographic Province Ridge and Valley

2. Slope 18 %

3. Depth to rock or impervious strata: Max. 48 Min. 44 in.

4. Depth to seasonal water table (gray mottling or gray color) No  Yes \_\_\_\_\_ inches

5. Free water present No  Yes \_\_\_\_\_ range in inches

6. Soil percolation rate estimated Yes  Texture group I IIA IIB III IV  
No \_\_\_\_\_ Estimated rate 75 min/inch

7. Permeability test performed Yes \_\_\_\_\_

No  Recommended Installation Depth 23 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	0-7	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	7-17	III	Strong Brown (7.5YR 5/6), SILTY CLAY LOAM,
B2t	17-30	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM
C	28-48	III	Yellowish Brown (10YR 5/8),heavy SILT LOAM
#2			
A	0-3	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	3-12	III	Yellowish Brown (10YR 5/6), CLAY LOAM,
B2t	12-30	III	Strong Brown (7.5YR 5/6), SILTY CLAY LOAM
C	30-48	III	Brownish Yellow (10YR 6/8),heavy SILT LOAM Weathered parent material
#3			
A	0-5	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	5-14	III	Yellowish Brown (10YR 5/6), CLAY LOAM,
B2t	14-32	III	Strong Brown (7.5YR 5/8), SILTY CLAY LOAM
C	32-44	III	Brownish Yellow (7.5YR 6/6),heavy SILT LOAM Weathered parent material, auger refusal at 44"

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 75 mpi
- B. Trench bottom square feet  
Required per bedroom (from  
Table 5.4 based on x Gravelless) 447
- C. Number of bedrooms 3

**Area calculations**

- D. Length of trench 90 ft. Length of available area 90 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required 43 ft. Width of available area 60 ft.  
G(F-1) + E
- I. Total square footage required  
(line B times line C) 1341
- J. Square footage in design  
(D\*E\*F) 1350
- K. Is a reserve area required? x Yes      No(50%)

