

Southwest Soils, Inc.

On-site wastewater consulting

P.O. Box 90
Woodlawn, VA 24381

Office (276) 733-5682
Fax (276) 728-4200
Email swsoils@wmbarqmail.com

May 14, 2014

The Helen M. and Henry A. Ross Revocable Trust

RE: Roanoke County, Tract #3, 20.480 acres, portion of Tax Parcel 111.00-02-09.00-0000

This letter is to summarize the soil suitability findings for the above referenced property. The soils were evaluated with a hand auger in three locations. An area suitable for a **(4) Four-bedroom TL-2 Treatment/Trenches** onsite sewage disposal system (OSDS) was found in the area evaluated. The drainfield area is staked with 36' stakes and pink flagging.

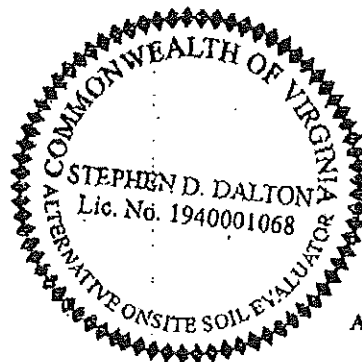
This is a letter of professional opinion (inclusive to supporting documentation) and no-way constitutes and/or guarantees an approved OSDS through the Roanoke County Health Department. The purchaser and/or agent thereof should contact the Roanoke County Health Department or Southwest Soils, Inc. once he/she elects to obtain a Sewage Disposal Permit.

If you have any questions please contact Stephen Dalton at (276) 733-5682.

Thank You,



Stephen Dalton
AOSE



Appendix I

Commonwealth of Virginia

Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID# _____ (VDH Use)

Owner The Helen M. and Henry A. Revocable Trust Address _____

Phone _____

Agent SW Soils, Inc. Address P.O. Box 90 Phone (276) 733-5682Woodlawn, VA 24381Directions to Property: Rte. 221 South to Bent Mtn. left on Fortunes Ridge, right on Slingsgap Road to property on left.Subdivision _____ Phase N/A Lot _____

Other Property Identification _____

Map Reference Tax map # 111.00-02-09.00-0000 portionDimension/size of Lot/Property 20.480 acresResidential Use ☒ Yes ☐ NoTermite Treatment ☒ Yes ☐ No☒ Single Family ☐ Multi-familyNumber of bedrooms 4 Number of Units _____Basement ☒ Undetermined ☐ NoFixtures in Basement ☐ Yes ☐ No

Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: ☒ Treatment Level 2/ TrenchesWater Supply: ☐ Public ☐ New ☐ Existing☒ Private ☒ New ☐ ExistingDescribe: Class III-B 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 5/14/14

Appendix 6
Abbreviated Design Form

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 45 mpi
- B. Trench Bottom based on table 4.6 258
- C. Number of bedrooms 4

Area calculations

- D. Length of trench 50 ft. Length of available area 50 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 7
- G. Center-to-center spacing 10 ft.
- H. Width required 63 ft. Width of available area 63 ft.
G(F-1) + E
- I. Total square footage required 1032
(B * C)
- J. Square footage in design 1050
(D * E * F)
- K. Is a reserve area required? Yes x No

Appendix 3

Evaluation Date: 5/14/14

Evaluator: Stephen Dalton

DRAINFIELD

#1

A	0-8	IIa	Dark Yellowish Brown (10YR 4/4), SANDY LOAM, common fine roots, friable, granular, many fine roots
B	8-38	IIb	Strong Brown (7.5YR 4/6), SANDY CLAY LOAM,, few fine roots,
C	38-50	IIa	Strong Brown (7.5YR 5/6), SANDY LOAM, few fine roots, Weathered parent material, auger refusal

#2

A	0-8	IIa	Dark Yellowish Brown (10YR 4/4), SANDY LOAM, common fine roots, friable, granular, many fine roots
B	8-26	IIb	Strong Brown (7.5YR 4/6), SANDY CLAY LOAM,, few fine roots,
C	26-60	IIa	Yellowish Brown (10YR 5/8), SANDY LOAM, few fine roots, Weathered parent material,

#3

A	0-8	IIa	Dark Yellowish Brown (10YR 4/4), SANDY LOAM, common fine roots, friable, granular, many fine roots
B	8-26	IIb	Strong Brown (7.5YR 4/6), SANDY CLAY LOAM,, few fine roots,
C	26-32	IIa	Brown (10YR 4/3), SANDY LOAM, few fine roots, Weathered parent material, auger refusal at 32"

Appendix 2

Soil Summary Report

GENERAL INFORMATION

Date 5/14/14 Submitted to Roanoke County Health DepartmentApplicant The Helen M. and Henry A. Ross Revocable Trust Telephone No. _____

Address _____

Owner _____ Address _____

Location: Slingsgap RoadTax Map 111.00-02-09.00-0000Subdivision Maplewood Phase N/A Lot _____

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. 60 Min. 30 in. None _____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 45 min/inch

7. Permeability test performed Yes _____

No ☒ Recommended Installation Depth 18 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 _____