

AOSE Report for

SUBDIVISION APPROVAL

Location of property:

The Farms at Turkey Run
Lot 22 Section , Subdivision , Albemarle County
GPIN or Tax Map #
Latitude/Longitude

Applicant or Client and address:

Murcielago Enterprises
1903 Manakin Road Suite F
Manakin-Sabot, Virginia 23103

Prepared by AOSE (name and address):

Steve Gooch
1821 Broadway Street
Charlottesville, Virginia 22902

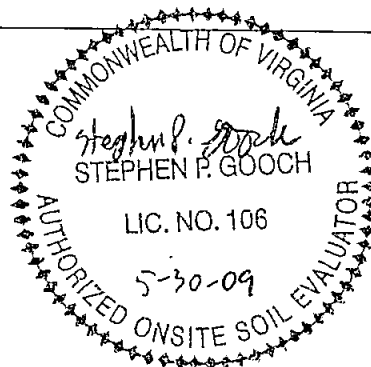
Date of Report: 5-30-09AOSE Job Number: (optional)Revision Date: , Health Dept. ID. No.:

Contents/Index of this report:

AOSE Cover Sheet	Abbreviated Design Form
Soil Profile Sheets	Survey Plat
Soil Summary Report	

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.

I recommend a subdivision approval be approved

Soil Profile
Revised Lot 22
The Farms at Turkey Run

Hole	Depth (in.)	Horizon	Material Description	Soil Texture
A	0-3	A	Yellowish brown (10YR 5/4) clay loam	3
	3-17	Bt	Reddish yellow (7.5YR 6/6) silty clay loam	3
	17-32	Bt ₂	Reddish yellow (5YR 6/8) clay loam	3
	32-38	C	Red (2.5YR 5/8) clay loam with weathered phyllite fragments	3
	38	Cr	50% + weathered phyllite fragments	
B	0-3	A	Gray (10YR 5/1) loam	2
	3-22	Bt	Reddish yellow (7.5YR 6/6) silty clay loam	3
	22-34	C	Light brown (7.5YR 6/4) clay loam with weathered phyllite fragment	3
	34	Cr	50% + weathered phyllite fragments	
C	0-4	A	Brown (7.5YR 5/4) clay loam	3
	4-24	BC	Reddish yellow (7.5YR 6/8) silty clay loam with weathered phyllite fragments	3
	24	Cr	50% + weathered phyllite fragments	
D	0-3	A	Dark gray (10YR 4/1) loam	2
	3-22	Bt	Yellowish red (5YR 5/8) silty clay loam	3
	22-41	BC	Yellowish brown (10YR 5/6) silty clay loam with weathered phyllite fragments	3
	41	Cr	50% + weathered phyllite fragments	
E	0-3	A	Brown (7.5YR 5/4) clay loam	2
	3-14	Bt	Brownish yellow (10YR 6/6) silty clay loam	3
	14-30	BC	Reddish yellow (5YR 6/6) silty clay loam with weathered phyllite fragments	3
	30	Cr	50% + weathered phyllite fragments	
F	0-2	A	Grayish brown (10YR 5/2) clay loam	3
	2-6	Bt	Brownish yellow (10YR 6/6) silty clay loam	3
	6-23	BC	Yellow (10YR 7/8) silty clay loam with weathered phyllite fragments	3
	23	Cr	50% + weathered phyllite fragments	

Soil Profile Continued
Revised Lot 22
The Farms at Turkey Run

Hole	Depth (in.)	Horizon	Material Description	Soil Texture
G	0-3	A	Grayish brown (10YR 5/2) clay loam	3
	3-12	Bt	Brownish yellow (10YR 6/6) silty clay loam	3
	12-22	BC	Yellow (10YR 7/8) silty clay loam with weathered phyllite fragments	3
	22	Cr	50% + weathered phyllite fragments	
H	0-3	A	Grayish brown (10YR 5/2) clay loam	3
	3-12	Bt	Reddish yellow (7.5YR 6/6) silty clay loam	3
	12-42	BC	Yellowish-red (5YR 5/8) silty clay loam with light reddish brown (2.5YR 6/4) silt loam phyllite saprolite	3
	42	Cr	50% + weathered phyllite fragments	

Appendix 2
Soil Summary Report

GENERAL INFORMATION

Date 5-30-09 Submitted to Albemarle County Health Department
 Applicant Murcielago Enterprises, LLC Telephone Number _____
 Address 1903 Manakin Road Suite F Manakin-Sabot, Virginia 23103
 Owner same Address same
 Location Farms at Turkey Run on Rt. 795 near Blenheim
 Tax Map _____ Subdivision Farms at Turkey Run
 Block/Section _____ Lot 22

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory? ☒ Yes ☐ No

Describe side slope

2. Slope 11 %

3. Depth to rock or impervious strata: Max. 41" Min. 23" None _____

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 II III IV
☐ No Estimated rate 90 min/inch

7. Permeability test performed ☐ Yes
☒ No

If yes, note type of test performed and attach

☒ Site Approved: Drainfield to be placed at 11" 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 _____

(attach additional pages if necessary)

Abbreviated Design Form

This form is for use with gravity, pump to gravity, enhanced flow, and low pressure distribution (LPD) sewage system designs and when applying for a certification letter or subdivision approval.

This abbreviated design covers the ☒ primary and reserve area, ☐ only the primary area, ☐ only the reserve area (check one) for Lot 22 - The Farms at Turkey Run (property ID).

Design Basis

Total length of available area: 100' Total width of available area: 210'

Estimated Perc. Rate: 90 at 6" in. (depth) Number of bedrooms (or GPD): 6

Conveyance Method¹: Pump Distribution method² (specify): Pump

Dispersal system basis^{3c} Table 5.4 - LPD LGMI required? No (Yes/No)

Effluent quality required: Secondary (Primary, Secondary, Advanced Secondary)

Square feet per bedroom: 424 Total trench bottom area required: 17859*
*includes 17% increase for slope over 10%

Area Calculations

Number of trenches 90 Length of trenches: 100'

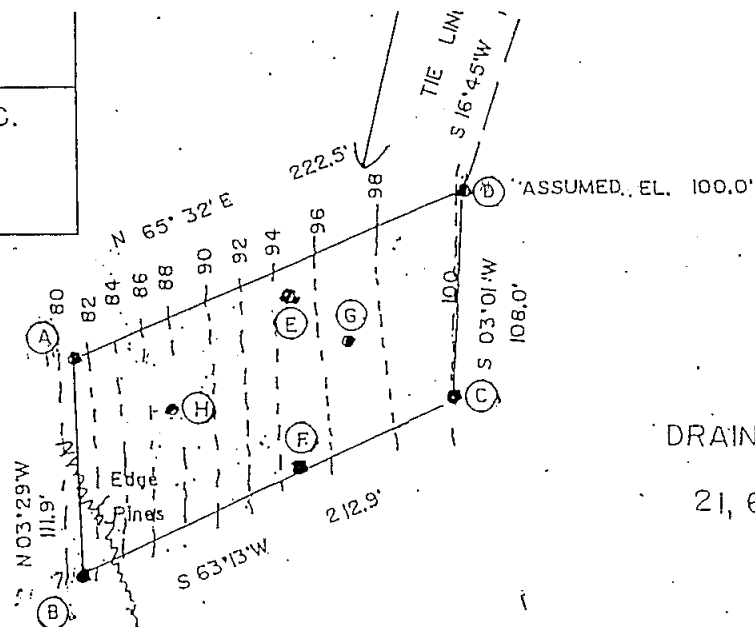
Width of trenches: 1" Center to center spacing: 2'

Reserve required? yes Percent reserve area required: 100%

Total width of absorption area required 178' Total trench bottom area provided: 18000

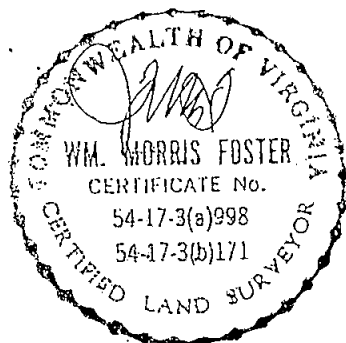
The required width is calculated by multiplying the center-to-center spacing by one less than the number of trenches and adding 1 trench width plus any required reserve area. If the topography is not uniform across the length of the site the trenches will need to flare apart on one end to maintain contour. When this occurs it is necessary to use a center-to-center spacing that accounts for the flair or the installer will not be able to fit the system within the approved area. It is perfectly acceptable to have more area available, especially up and down the slope, than is required.

The Farms at Turkey Run
Albemarle County, Virginia
Gooch Engineering & Testing, Inc.
1821 Broadway Street
Charlottesville, Virginia 22902



DRAINFIELD DETAIL

1" = 100'



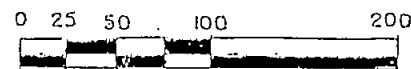
W. MORRIS FOSTER
LAND SURVEYOR
NELLYSFORD, VA.

DATE: '05-20-09

PLAT. SHOWING

PROPOSED DRAINFIELD REVISED LOT 22
"THE FARMS AT TURKEY RUN"
SCOTTSVILLE MAGISTERIAL DISTRICT
ALBEMARLE COUNTY, VIRGINIA

DRAINFIELD DETAIL



SCALE IN FEET

Page 6 of 6