
December 26, 2020

Dave Liskany (Countrytyme Land Specialist, Ltd)
3451 Cincinnati-Zanesville Rd, SW
Lancaster, OH 43130

Dear Mr. Liskany:

We would like to thank you for requesting our assistance to identify the specific soil properties on your property (**Track # 1, Pleasant Valley Woods - Union Road**), Chillicothe, in Ross County, Ohio.

Enclosed are the following:

1. Location map
2. Aerial Photo Sketch Map of Site
3. Soil Site Descriptions for the different Soil Areas
4. Soil and Site Evaluation and discussion, for the proposed waste water disposal

The information in this report is basic soils information as found on-site. This does not mean that this site is suitable for an STS, that is up to the Ross County Health Department. If I can be of further assistance, in helping to interpret, clarify or add additional information from my notes, please let me know at 304-372-4809 home or 304-532-4711 cell.

Thanks,



Carlos Cole
Soil Scientist

Cc: Logan Calhoun, R. S., Director of Environmental Health

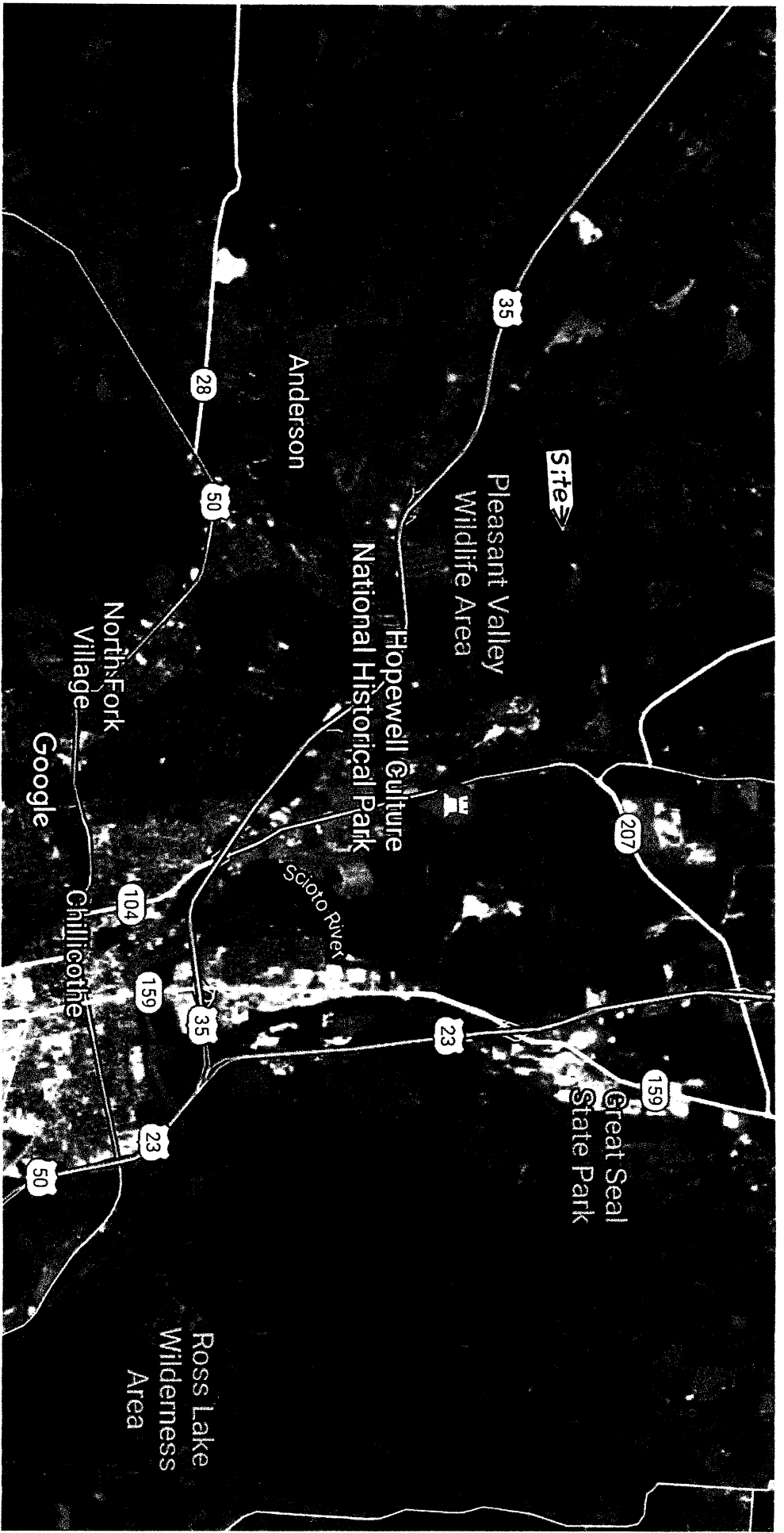
Soil and Site Evaluation Discussion

This soil evaluation is for a new STS (sewage treatment system) for a new home (example that may change) on your property. We probed these soils as best as possible to find the depth to seasonal high water table, more clayey soil textures and any compacted or dense layers that would impact the ability of a leach field to work properly. We located and proposed this leach field on the most sloping area on the property on the outer edge of a slight point like landform. These are limey soils that allow for a little better drainage when compared to more acid clayey soils. Typically these soils in the proposed leach field were a little more loamy in the middle and lower part of the leach field. We tried to select the better location for a leach field, however it's very difficult to find an area that is totally suitable for a septic leach field, when considering the Ross County Health Department criteria. If you find the best location for the leach field, provide for adequate surface drainage away from the leach field and pretreat waste water (aeration) is usually the only type system you can use for the STS in these glacial till soil areas.

This proposed filter field area is large and can serve as both the primary and secondary leach field areas. These soils are basically consistent in basic soil properties, as indicated by the soil site descriptions. We excavated soil pits to approximately 30 inches and then auger to 60 inches, if the auger is not stopped by rock fragments. These soils (soil site #2) seem to be a little more loamy and better drained on the steeper slope on more of the end of the landform/point. The soils (#1 soil and #3 soil) on the outer edge of the proposed leach field are not as well drained as the soil (#2 soil) in the center of the leach field. This is a result of more loamy soil and more free water flow on the end of the point, with a little steeper slope.

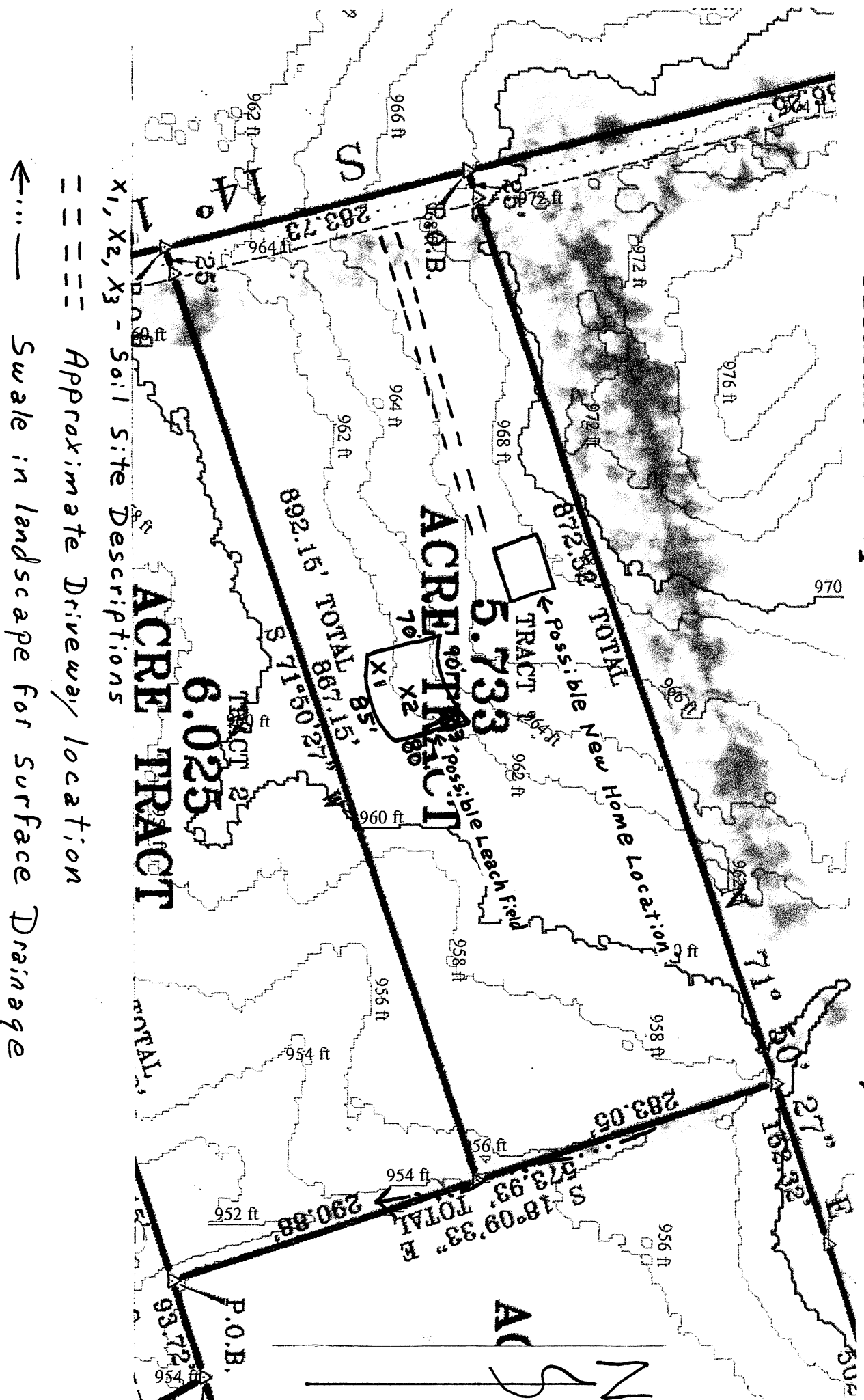
We have shown the location of the proposed STS leach field on the sketch map. We have marked the proposed filter field area with pink wire flags along the boundary and/or on the boundary corners. The soil description sites are marked with orange wire flags and the number of the description is marked on the flag. The approximate dominion, of the proposed filter field area, is marked on the sketch map. The proposed leach field area is just an indication of the area that can be used, the installer or the health department will determine where the filter lines will be located. The filter field lines would need to be located level on the contour around the slope. These soil descriptions were taken at random to show the soil properties at different areas within the proposed filter field area and the sketch map is not to scale. The proposed leach field can be extended around the slope if needed. We gave a house site location (example that may change with new owner) on the sketch map to give you a possible reference point, for this report.

Location Map



Sketch Map for Countrytyme Property

Pleasant Valley Woods-Track #1 Ross County



These are all Approximate Locations (not to Scale)

② we used the 12-24 Depth For H. Linear Loading Rate used 5-9% slope site and Soil Evaluation for Sewage Treatment and Dispersal

Lot #1

County: Ross
 Township / Sec: Union
 Property Address/Location: S. Union Rd. Chillicothe, OH 45601
 Applicant Name: Country Time Realty
 Address: Att: David Lishenz - Land Specialist 3451 Cincinnati - Zanesville Rd, SW Ohio
 Phone #: 614-429-8152
 Lot #: #1
 Land Use/Vegetation: Crop Field
 Landform: GLACIAL TILL
 Position on Landform: Point-outer Edge
 Percent Slope: 5%
 Shape of Slope: CONVEX
 Evaluator: 12-22-20 Carlos Cole
 Certification Stamp or Certification #: 24835
 Signature: Carlos Cole
 Phone #: 304-372-4809 Home 304-532-4711 cell

#1 Test Hole #1
 Latitude/Longitude: N39°23.698', W83°03.172'
 Method: Pit Auger Probe
Dug to 30" + Augered Remainder

Soil Profile	Depth (Inches)	Matrix Color	Estimating Soil Saturation		Class	Texture		Grade	Structure		Consistence	Infiltration Loading Rate gal./day/ft ²	Hydraulic Linear Loading Rate
			Munsell Color (hue, value, chroma)	Redoximorphic Features		Approx. % Clay	Approx. % Fragments		Size	Type (Shape)			
Ap	0-8	10YR 4/3	+5/3	-	L/s/L	15-17	2-5 ⁺	2-1	M-SbH Fm Gr	SbH Gr	Fr-vfr	.6	4.1
BA	8-13	10YR 6/4	-	-	L	18-21	2-5 ⁺	2-1	M	SbH	Fr	.6	4.1
Bt ₁	13-19	10YR 6/3	+5/6	-	L	24-27	2-5 ⁺	2-1	M	SbH	Fr	.6	4.1
Bt ₂	19-29	10YR 6/2	+5/6	-	CL/L	21-30	2-5 ⁺	2-1	M	SbH	Fr	.4	3.0
BC	29-38	10YR 6/6 + 5/6	5/6	-	CL	29-32	2-5 ⁺	1-2	M	SbH	Fr	.2	2.7
C ₁	38-45	10YR 5/6	6/3	-	CL/L	27-30	2 ⁺	-	-	-	Fr	Wet	
C ₂	45-60	10YR 5/6	+6/3	-	L/CL	26-28	5-10 ⁺	-	-	-	Fr	Dry	
Limiting Conditions													
Period Seasonal Water Table		Depth to (in.)		Descriptive Notes									
Apparent Water Table		19											
Highly Permeable Material		-											
Bedrock		None											
Restrictive Layer		None											
Remarks / Risk Factors													

Note: The evaluation should include a complete site plan or site drawing.

*Gravel mostly, Rounded

② we used their 24 Depth For H. Linear Loading Rate
 used 5-9 % slope site and Soil Evaluation for Sewage Treatment and Dispersal

Lot # 1

County: Ross
 Township / Sec: Union
 Property Address/Location: 5 Union Rd. Chillicothe, OH 45601
 Applicant Name: COUNTRYVIEW REALTY
 Address: ATT: David Lisheny - Land Specialist
3451 Cincinnati - Zanesville Rd, SW Ohio
 Phone #: 614-427-8152
 Lot #: 1

Land Use / Vegetation: Crop Field
 Landform: Glacial Till
 Position on Landform: Point - over Edge
 Percent Slope: 5%
 Shape of Slope: CONVEX
 Evaluator: 12-22-26
Charles Cole

Certification Stamp or Certification #: 24835
 Signature: Charles Cole
 Phone: 304-372-4809 Home
304-532-4711 cell

Dug to 30" + Augered Remainder

Soil Profile	Depth (inches)	Matrix Color	Bestimating Soil Saturation		Clas	Texture		Bestimating Soil Permeability			Infiltration Loading Rate gal./day	Hydraulic Linear Loading Rate	
			Munsell Color (hue, value, chroma)	Redoximorphic Features		Approx. % Clay	Approx. % Fragments	Grade	Structure	Consistence			
AP1	0-5	10YR 4/4 + 5/4	-	-	L	16-19	2+	2-1	M	SbT +	Fr - Gr - Fr - v	.6	4.4
AP2	5-9	10YR 4/4 + 5/6	-	-	L	18-21	0-2+	2-1	M	SbH	Fr	.6	4.1
Bt1	9-16	10YR 5/6 coats of 10YR 5/4	-	-	CL/L	26-31	2+	2-1	M	SbH	Fr	.4	3.0
Bt2	16-24	10YR 5/6 coats of 10YR 6/3	-	-	CL/L	26-29	2+	2-1	M	SbH	Fr	.4	3.0
Bt3	24-30	10YR 5/6	-	-	L	25-28	2+	1-2	M	SbH	Fr	.4	3.8
Bt4	30-34	10YR 6/6 + 5/6	-	-	CL	27-30	2+	1-2	M	SbH	Fr	.2	2.7
BC	34-41	10YR 5/6	-	-	L	25-27	2-5+	1	M	SbH	Fr	.4	3.8
Limiting Conditions		10YR 5/6 .5/4 .6/8	10YR 7/1	L/C/L	24-30	2-5+	-	-	-	-	-	-	-
Period Seasonal Water Table		24'	Descriptive Notes										
Apparent Water Table													
Highly Permeable Material													
Bedrock		52"	Hit Rock - Bot not		Bed Rock								
Restrictive Layer		none	to 52"		+ gravel								

Note: The evaluation should include a complete site plan or site drawing.

② we used the 12-24 Depth For H. Linear Loading Rate
 used 5-9 % slope site and Soil Evaluation for Sewage Treatment and Dispersal

Lot # 1

County: Ross
 Township / Sec.: Union
 Property Address/Location: 5, Union Rd. Chillicothe, OH 45601
 Applicant Name: COUNTRYTOWN REALTY
 Address: ATT: Dave Lishenz - Land Specialist
3451 Cincinnati - Zanesville Rd, SW Ohio
 Phone #: 614-427-8152
 Lot #: 1

Land Use / Vegetation: Crop Field
 Landform: Glacier Till
 Position on Landform: side of Point
 Percent Slope: 4-5%
 Shape of Slope: convex
 Date: 12-22-20
 Evaluator: Carlos Cole

Certification Stamp or Certification #: 24835
 Signature: Carlos Cole
 Phone #: 304-372-4809 Home
304-532-4711 cell

Dug to 36" + Augered Remainder

Soil Profile	Depth (Inches)	Matrix Color	Bedrocking Soil Saturation		Class	Texture		Estimating Soil Permeability		Structure	Consistence	Infiltration Loading Rate gal./day/ft ²	Hydraulic Linear Loading Rate
			Munsell Color (hue, value, chroma)	Redoximorphic Features		Approx. % Clay	Approx. % Fragments	Grade	Size				
Ap	0-6	10YR 4/4	-	-	L	16-19	2+	2	F+M	Gr	VFr	.6	4.1
BA	6-11	7.5YR 5/4	-	-	L	20-23	2+	2-1	M	SbH	Fr	.6	4.1
Bt1	11-17	7.5YR 5/4	10YR 6/4	+6/3	CL	27-30	2+	2	M	SbH	Fr	.4	3.0
Bt2	17-23	10YR 5/4			CL	27-30	2+	2-1	M	SbH	Fr	.4	3.0
BC1	23-31	10YR 5/4 + 5/6			CL/L	26-29	2+	1-2	M	SbH	Fr	.2	2.7
BC2	31-37	10YR 5/4 + 5/6			CL	28	2+	1	M	SbH	Fr	.2	2.7
C1	37-42	10YR 5/4 + 5/6			L	25-28	5+	-	-	-	Fr-Fr	-	-
C2		4-2-5/1	10YR 5/4	5/6	10YR 6/2	L	27-29	5-8+	-	-	Fr	-	-
Limiting Conditions		Depth to (in.)		Descriptive Notes		Remarks / Risk Factors							
Periodic Seasonal Water Table		17											
Apparent Water Table		-											
Easily Permeable Material		-											
Bedrock		none		Hit Large		Rock could not Auger Deeper Than 51"							
Restrictive Layer		none		to 51" to 51"		+ grave!							

Note: The evaluation should include a complete site plan or site drawing.