
January 5, 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 # 6, 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

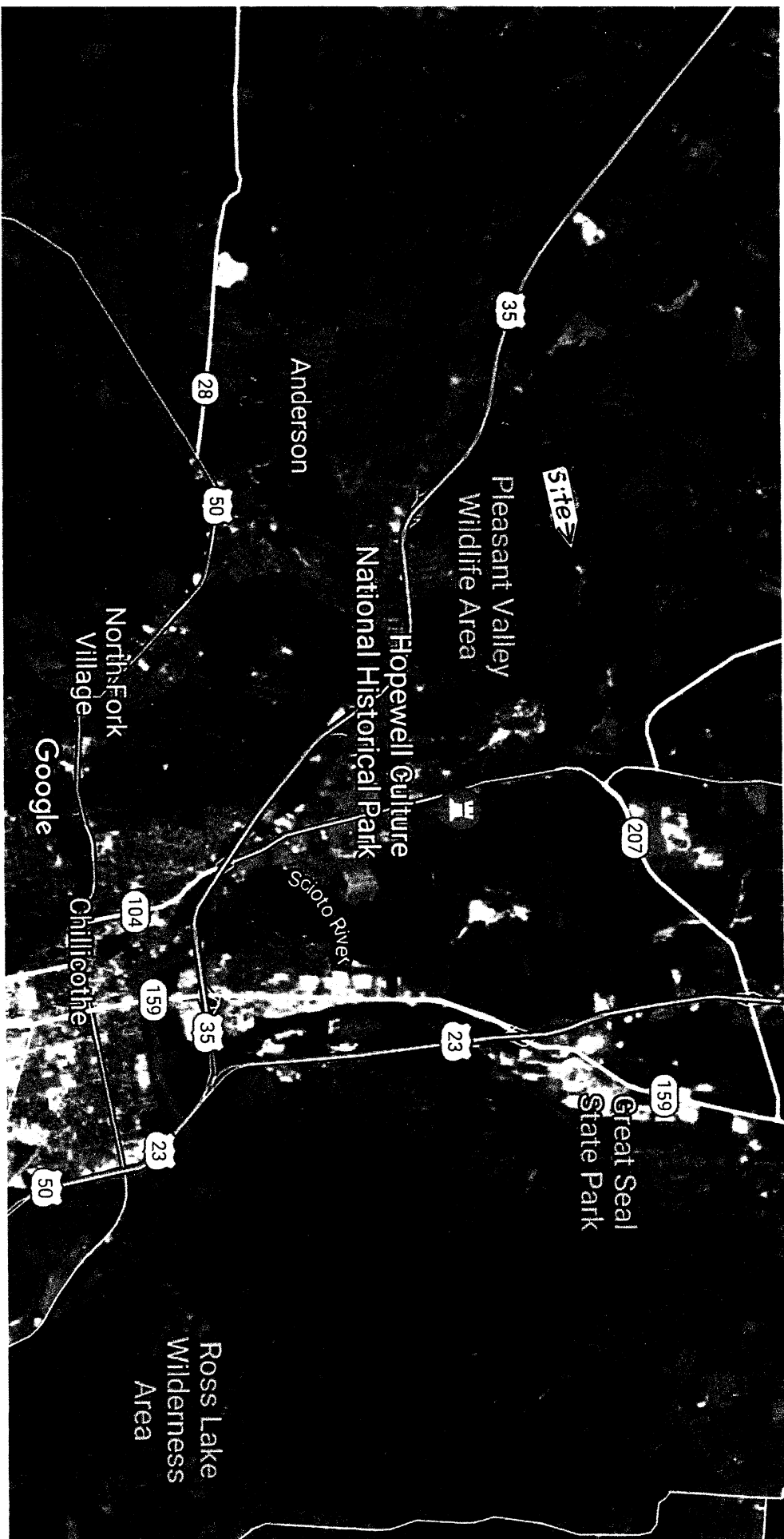
Soil and Site Evaluation Discussion

This soil evaluation is for a new STS (sewage treatment system) for a new home (we have located a possible new home location, but if changed make sure the new home is located upslope of the proposed leach field). We used a soils probe and examined the soils as best as possible to find the depth to seasonal high water table, soil textures, percent clay and any compacted or dense layers that would impact the ability of a leach field to work properly. We located this proposed leach field on a sloping area, downslope of a less sloping landform. These soils have developed in glacial till parent material, with a thin local alluvial cap of soils overlying the original top portion of the soil. We also noted in soil pit #3, at a depth of 45 inches the soil consistency changes to firm, a result, of a change to a more clayey parent material, of residual interbedded siltstone and shale weathered soil.

The depth to a seasonal high water table in the #1 and #2 soil is 23 inches, and the #3 soil is 20 inches. These are mostly loamy soils with the main restricting layers occurring with increased clay percentage, except for the #3 soil, a change in more clayey parent material occurred, with a total restricting layer at a depth of 45 inches. These soils do not have any bedrock to a depth of 60 inches. The upper part (#1 & #2 soils) of this proposed leach field seems to be a little better for use as an STS leach field area, however water flows down hill, so wherever you locate the filter lines may work similar. This proposed filter field area is large and can serve as both the primary and secondary leach field areas.

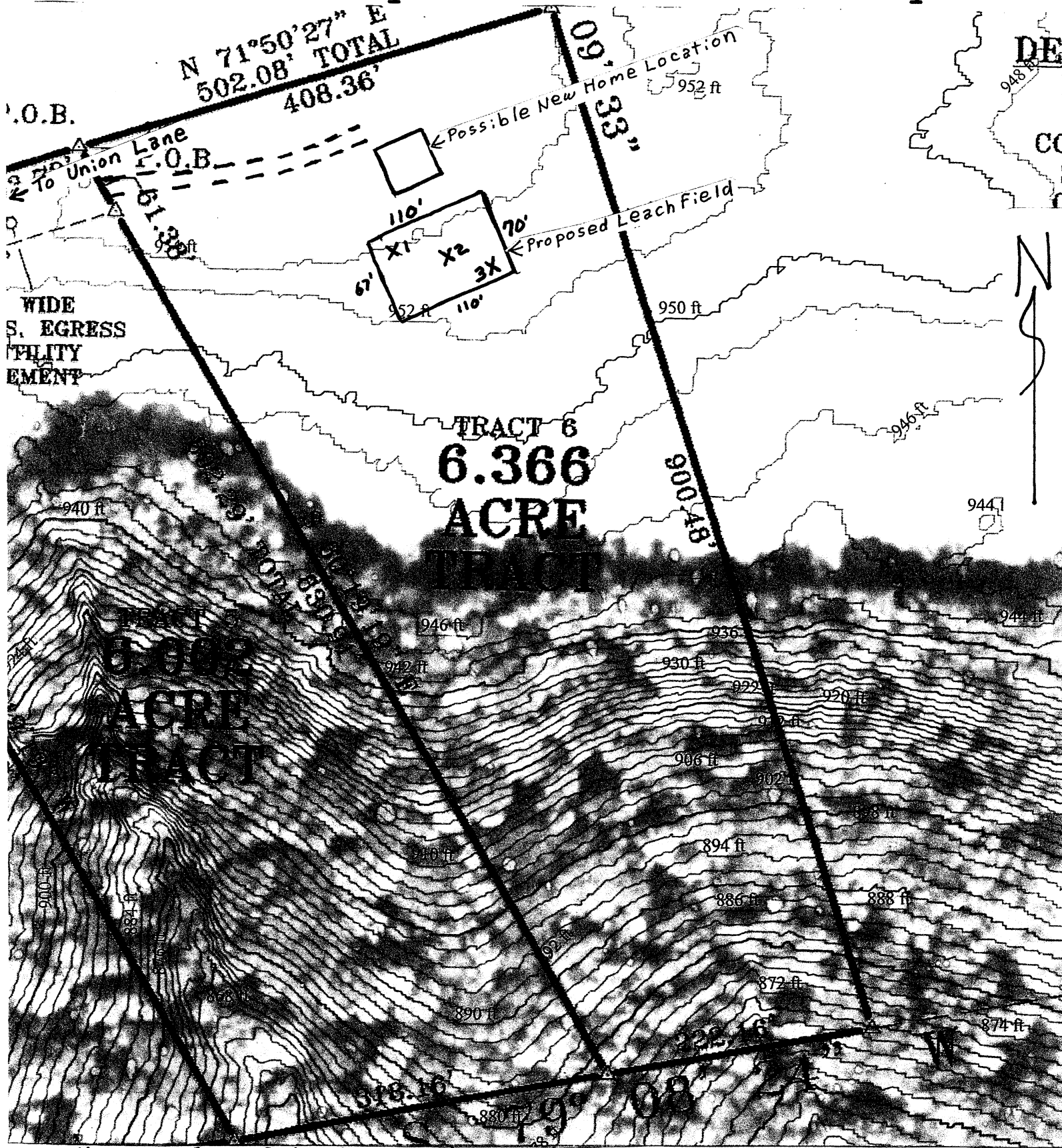
We have shown the location of the proposed STS leach field on the sketch map. We have marked the proposed filter field area with pink wire flags along the boundary and/or on the boundary corners. The soil description sites are marked with orange wire flags and the number of the description is marked 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 #6 Ross County



X1, X2, X3 - Soil Site Descriptions

==== Approximate "Possible" Driveway Location

These are all Approximate Locations "not to scale"

② used 5-9% slope site and Soil Evaluation for Sewage Treatment and Dispersal

Lot #6 County: Ross

Township / Sec: Union
 Property Address/Location: 5. Union Rd.
 Land Use / Vegetation: Crop Field
 Landform: Clayey Till
 Position on Landform: slight slope
 Percent Slope: 5-6%
 Shape of Slope: convex

Applicant Name: Chitticothie, OH 45601
 Address: Country Time Realty
 ATT: David Lisheny - Land Specialist
 3451 Cincinnati - Zanesville Rd, SW corner
 Phone #: 614-427-8152
 Lot #: 6
 Evaluator: Carlos Cole

#1 Test Hole #1
 Latitude/Longitude: N39° 23.665' W 83° 02.975'
 Method: Pit Auger Probe
 Certification Stamp or Certification #: 24835
 Signature: *Carlos Cole*
 Phone #: 304-372-4809 Home
 304-532-4711 cell

Dug to 30" + Augered Remainder

Soil Profile	Depth (Inches)	Matrix Color	Estimating Soil Saturation			Class	Texture			Structure			Infiltration Loading Rate gal./day/ft ²	Hydraulic Linear Loading Rate
			Moisture	Redoximorphic Features	Depletions		Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence		
Ap1	0-5	10YR 4/3	4 1/4	-	-	L	18-21	-	2-1	F	Gr	Fr	.6	4.1
BA	5-10	10YR 5/4	-	-	-	L/S:1L	21-23	1+	2-1	F+m	sbh	Fr	.6	4.1
2A6	10-17	10YR 3/3	3/4	-	-	L	15-18	-	2-1	F+m	sbh	Fr	.6	4.1
Bt1	17-23	10YR 6/4	5/6 + 6/3	-	-	L	23-26	1-2+	2-1	M	sbh	Fr	.6	4.1
Bt2	23-33	10YR 5/6	-	10YR 7/2	-	CL	27-29	1-2+	2-1	M	sbh	Fr	.4	3.0
Bt3	33-41	10YR 5/6	5/4	6/2	-	CL	30-34	2+	1-2	M+c	sbh	Fr-Fi	.2	2.7
Bc	41-45	10YR 5/6	5/4	6/1	-	CL	27-31	5+	1	C	sbh	Fr	.2	2.7
C	45-55	10YR 5/6	5/4	6/1	-	CL	27-33	5-10+	-	-	-	Fr	-	-
Limiting Conditions		Depth to (in.)		Descriptive Notes		Remarks / Risk Factors								
Perched Seasonal Water Table		23"												
Apparent Water Table		-												
Slightly Permeable Material		-												
Bedrock		none		to 55"										
Restrictive Layer		-		some at 33-41										

Note: The evaluation should include a complete site plan or site drawing.
 This soil has been subject to some kind of Alluvial over wash, buried A (Ab) horizon.
 x gravel

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 # 6

Ross

Land Use/Vegetation: Crop Field

Glacier Till

Township / Sec: Union Rd.

Landform: Sloping Area

5% Convex

Property Address/Location: Chillicothe, OH 45601

Position on Landform: Percent Slope:

Applicant Name: County of Licking, Realty Address: Rt. David Lister, Land Specialist

Phone #: 614-427-8152

Evaluator: Charles Cole

Certification Stamp or Certification #: 24835

Lot #: 6

#2 Test Hole #: 2

Latitude/Longitude: N 39° 23.661' W 83° 02.967'

Method: Pit Auger Probe

Dug to 30" + Augered Remainder

Phone #: 304-372-4809 Home

Signature: Charles Cole

Soil Profile	Depth (Inches)	Matrix Color	Estimating Soil Saturation			Class	Texture	Approx. % Clay	Approx. % Fragments	Grade	Structure		Consistence	Infiltration Loading Rate gal./day/ft ²	Hydraulic Linear Loading Rate
			Moisture Color (hue, value, chroma)	Redoximorphic Features	Depletions						Concentrations	Size			
Ap1	0-6	10YR 4/3	-	-	L	18-21	2+	2-1	F	Gr	Fr-vFr	.6	4.1		
2 Ap2	6-10	10YR 3/3 + 4/3	-	-	L	15-18	1-2+	2	F+m	Gr	vFr	.6	4.1		
2 Bt1	10-15	10YR 5/6 + 5/4	-	-	L	23-26	2-5+	2-1	M	sbh	Fr	.6	4.1		
2 Bt2	15-23	10YR 5/6 + 5/4	-	-	CL/L	26-29	2+	2	M	sbh	Fr	.4	3.0		
2 Bt3	23-32	10YR 5/4 + 5/6	-	-	CL	28-32	5+	2-1	M	sbh	Fr	.4	3.0		
2 Bc	32-36	10YR 5/4 + 5/6	-	-	CL/L	26-30	2-5+	1	M	sbh	Fr	.2	2.7		
2 C	36-47	10YR 5/4	-	-	L	25-28	5-10	-	-	-	Fr	-	-		
47"	Hit Rock	-	-	-	Not Bed Rock	-	-	-	-	-	-	-	-		
Limiting Conditions		Depth to (in)		Descriptive Notes		Remarks / Risk Factors									
Periodic Seasonal Water Table		2.3"													
Apparent Water Table		-													
Slightly Permeable Material		-													
Bedrock		Hit Rock		Loose		AT 47"		This is not Bedrock just stopped Auger							
Restrictive Layer		None													

Note: The evaluation should include a complete site plan or site drawing. Top 6" of soil is over wash

x gravel ? How

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 #6 County: Ross
 Township / Sec: Union
 Property Address/Location: S. Union Rd., Chillicothe, OH 45601
 Applicant Name: Countrytyme Realty
 Address: Attn: David L. Sherry - Land Specialist
 Phone #: 614-427-8152
 Land Use / Vegetation: Crop Field
 Landform: Glacier Till
 Position on Landform: Lower slope
 Percent Slope: 4-5 %
 Shape of Slope: convex
 1-4-21
 Evaluation: Carlos Cole
 Certification Stamp or Certification #: 24835
 Signature: Carlos Cole
 Phone: 304-372-4809 Home
 304-532-4711 cell

#3 Test Hole # 3
 Latitude/Longitude: N39°23.659'
 Method: Pit Auger Probe
 Lot #: 6
 Dug to 28" + Augered Remainder

Soil Profile	Depth (Inches)	Matrix Color	Redoximorphic Features		Class	Texture		Structure			Infiltration Loading Rate gal/day/ft	Hydraulic Linear Loading Rate	
			Concentrations	Depletions		Approx. % Clay	Approx. % Fragments	Grade	Size	Type (Shape)			Consistence
Horizon Ap1	0-7	10YR 4/3	-	-	L	17-19	1-2+	2-1	F	Gr	Fr-vfr		
2 Ap2	7-12	10YR 3/3	+Y/3	-	L	15-18	2+	2-1	F+M	Gr	Fr-vfr		
2 Bt1	12-20	10YR 5/6	+5/4 . 6/3		CL	26-30	2+	2	M	sbH	Fr		
2 Bt2	20-31	10YR 5/6	+5/4		CL	27-32	2-4+	2	M	sbH	Fr		
2 Bt3	31-37	10YR 5/6	+5/4 + 7.5YR 6/6	10YR 6/2	CL	29-34	5-8+	2-1	M	sbH	Fr		
2 BC	37-45	7.5YR 6/6	10YR 6/4	10YR 6/2	CL	34-38	2-5	1	M+C	sbH	Fr-F!		
3 C1	45-60	10YR 6/1	10YR 5/4	10YR 4/2	s:CL	5 stratified 35+	field 4+	CL Higher clay	Lower	-	F!		
Limiting Conditions		Depth to (in.)		Descriptive Notes		Remarks / Risk Factors							
Period Seasonal Water Table		20											
Apparent Water Table													
Highly Permeable Material													
Bedrock		none											
Restrictive Layer		45											

3C1 Horizon Developed from Residual sedimentary siltstone Rock (in place)
 Note: The evaluation should include a complete site plan or site drawing.
 Top 7" of soil is over wash