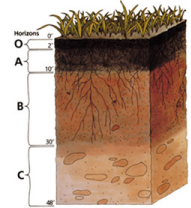


Soil and Environmental
Consulting Services, Inc.



Wednesday, August 10, 2022

Bruner Land Company
c/o Lori Bruner
brunerland@hotmail.com

Re: Soil investigation for on-site septic disposal for the lot splits at the corner of Roads 20 and 25, Harmony Township, Morrow County, Ohio

Enclosed you will find the requested detailed soil for the lot splits at the corner of Roads 20 and 25, Harmony Township, Morrow County, Ohio

The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should be submitted to local health department. The health department will make the determination if the soil and site area is suitable for onsite sewage treatment. It may also be necessary for the soil borings to be located by a surveyor.

Please protect all areas approved for septic disposal by having the contractor stake and rope off the proposed locations prior to driveway and basement excavation. No soil, building, or waste material should be stored on the proposed absorption areas. Disturbance to the areas may result in compaction and the subsequent failure of the system. Any disturbance to the absorption area voids the results of this analysis.

If you have any questions or want to move forward with the septic design process feel free to contact us.

Steven Miller, CPSS



ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND EBT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTACT DATA DERIVED FROM DIGITAL DEM DATA. SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.

TITLE: SITE AND SOIL EVALUATION Site Layout	
Parcel Splits at the Corner of Roads 20 and 25 Harmony Township, Morrow County, Ohio	
DR. BY: SAM	Drawn By:
DATE: 8/10/2022	Soil & Environmental Consulting Services, Inc. PO Box 1121 Delaware, OH 43015 614-579-7100
FILE: 22H126	SHEET: 1 OF 1

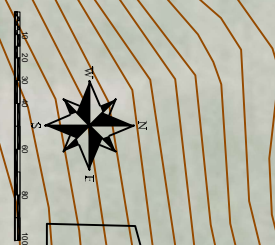


ST#13
 ALL INFORMATION ON THIS PAGE,
 INCLUDING ELEVATIONS AND LOT
 DIMENSIONS IS FOR REFERENCE PURPOSES
 AND IS NOT INTENDED TO REPRESENT
 A LEGAL SURVEY OR DOCUMENT. CONTOUR
 DATA DERIVED FROM DIGITAL DEM DATA.
 SEE INCLUDED LETTER AND SPIT BORING
 SHEETS FOR MORE INFORMATION.



ST#3
 Area
 Represented
 by Soil Sample

ST#4
 Area
 Represented
 by Soil Sample



ST#1
 Area
 Represented
 by Soil Sample

ST#2
 Area
 Represented
 by Soil Sample

SHEET 1 OF 1

TITLE: SITE AND SOIL EVALUATION Site Layout	
Parcel Splits at the Corner of Roads 20 and 25 Harmony Township, Morrow County, Ohio	
DR. BY: SAM	Drawn By:
DATE: 8/10/2022	Soil & Environmental Consulting Services, Inc.
FILE: 22H126	PO Box 1121 Delaware OH 43015 614-579-1164



ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND LOT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTOUR DATA DERIVED FROM DIGITAL DEM DATA. SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.

TITLE: **SITE AND SOIL EVALUATION**
 Site Layout

Parcel Splits at the Corner of Roads 20 and 25
 Harmony Township, Morrow County, Ohio

DR. BY: SAM

DATE: 8/10/2022

SHEET 1 OF 1

FILE: 22H126

Drawn By:

Soil & Environmental
 Consulting Services,
 Inc.

P.O. Box 1121
 Delaware OH 43015
 614-579-1164

Landforms
Upland*
Terrace
Flood Plain
Lake Plain
Beach Ridge
*Includes glacial till plain and end moraine

Position on Landform
Depression
Flat
Knoll
Crest
Hillslope
Footslope

Shape of Slope
Convex
Concave
Linear
Complex

Horizon Nomenclature		
Master Horizons	Horizon Suffixes	Horizon Modifiers
O	Predominantly organic matter (litter & humus)	Numerical Prefixes: Used to denote lithologic discontinuities.
A	Mineral, organic matter (humus) accumulation, loss of Fe, Al, clay	
E	Mineral, loss of Si, Fe, Al, clay, organic matter	Numerical Suffixes: Used to denote subdivisions within a master horizon.
B	Subsurface accumulation of clay, Fe, Al, Si, humus; sesquioxides; loss of CaCO ₃ ; subsurface soil structure	
C	Little or no pedogenic alteration, unconsolidated earthy material, soft bedrock	
R	Hard bedrock	
	a	Highly decomposed organic matter
	b	Buried genetic horizon
	d	Densic layer (physically root restrictive)
	e	Moderately decomposed organic matter
	g	Strong gley
	i	Slightly decomposed organic matter
	p	Plow layer or artificial disturbance
	r	Weathered or soft bedrock
	t	Illuvial accumulation of silicate clay
	w	Weak color or structure within B
	x	Fragipan characteristics

Soil Texture	
Texture Class Abbreviations	Textural Class Modifiers
Course Sand	cos
Sand	s
Fine Sand	fs
Very Fine Sand	vfs
Loamy Coarse Sand	lcos
Loamy Sand	ls
Loamy Fine Sand	lfs
Loamy Very Fine Sand	lvfs
Coarse Sandy Loam	cosl
Sandy Loam	sl
Fine Sandy Loam	fsl
Very Fine Sandy Loam	vfsl
Loam	l
Silt Loam	sil
Silt	si
Sandy Clay Loam	scl
Clay Loam	cl
Silty Clay Loam	sicl
Sandy Clay	sc
Silty Clay	sic
Clay	c
*Estimate approximate clay percentage within 5 percent	
Gravelly	GR
Fine Gravelly	FGR
Medium Gravelly	MGR
Coarse Gravelly	CGR
Very Gravelly	VGR
Extremely Gravelly	XGR
Cobbly	CB
Very Cobbly	VCB
Extremely Cobbly	XCB
Stony	ST
Very Stony	VST
Extremely Stony	XST
Bouldery	BY
Very Bouldery	VBY
Extremely Bouldery	XBY
Channery	CN
Very Channery	VCN
Extremely Channery	XCN
Flaggy	FL
Very Flaggy	VFL
Extremely Flaggy	XFL

Soil Structure					
Grade	Size	Type (Shape)			
Structureless	0	Very Fine	vf	Granular	gr
Weak	1	Fine	f	Angular Blocky	abk
Moderate	2	Medium	m	Subangular Blocky	sbk
Strong	3	Coarse	co	Platy	pl
		Very Coarse	vc	Prismatic	pr
		Extr. Coarse	ec	Columnar	cpr
		Very Thin*	vn	Single Grain	sg
		Thin*	tn	Massive	m
		Thick*	tk	Cloddy	CDY
		Very Thick*	vk		
* The sizes Very Thin, Thin, Thick, and Very Thick, are used when describing platy structure only. Substitute thin for fine, and thick for coarse when describing platy structure.					

Moist Consistence	
Loose	l
Very Friable	vfr
Friable	fr
Firm	fi
Very Firm	vfi
Extremely Firm	efi

For a more detailed explanation on describing and sampling soils, please refer to the "Field Book for Describing and Sampling Soils" Schoeneberger, P.J., Wysocki, D.A., Benham, E.C., and Broderson, W.D. (editors) 2002. Field book for describing and sampling soils, version 2.0. Natural Resources Conservation Service, USDA, National Soil Survey Center, Lincoln, NE.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 1
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 9.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	8 to 11	10YR 5/6		15%10YR 5/3	sic1	35	2	2	m	sbk	fi	
Bt2	11 to 22	10YR 5/4		20%10yR 5/2	sic1	38	2	2	m	sbk	fi	
BC	22 to 25	10YR 5/4		30%10YR 5/2	sic1	36	2	1	m	sbk	fi	
Cd	25+	10YR 5/4		20%10YR 5/2	cl	35	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	11	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	25	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 2
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 9.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	8 to 18	10YR 5/6		5%10yR 5/3	sic1	32	2	2	m	sbk	fi	
Bt2	18 to 28	10YR 5/4		15%10YR 5/2	sic1	36	2	2	m	sbk	fi	
BC	28 to 30	10YR 5/4		20%10YR 5/2	sic1	35	2	1	m	sbk	fi	
Cd	30+	10YR 5/4		15%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	18	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	30	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 3
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 9.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 7	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	7 to 15	10YR 5/6			sic1	30	2	2	m	sbk	fi	
Bt2	15 to 22	10YR 5/4		10%10YR 5/2	sic1	35	2	2	m	sbk	fi	
BC	22 to 25	10YR 5/4		15%10YR 5/2	sic1	33	2	1	m	sbk	fi	
Cd	25+	10YR 5/4		10%10Yr 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	15	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	25	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 4
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 9.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Redoximorphic Features			Texture			Structure	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
Ap	0 to 9	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	9 to 17	10YR 5/6			sic1	32	2	2	m	sbk	fi	
Bt2	17 to 42	10YR 5/4		15%10YR 5/2	sic1	36	2	2	m	sbk	fi	
BC	42 to 48	10YR 5/4		20%10YR 5/2	sic1	34	2	1	m	sbk	fi	
Cd	48+	10YR 5/4		15%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	17	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	48	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 5
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 2 to 3%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	8 to 22	10YR 5/4		20%10YR 5/2	sic1	34	2	2	m	sbk	fi	
Bt2	22 to 45	10YR 5/4		30%10YR 5/2	sic1	36	2	2	m	sbk	fi	
BC	45 to 49	10YR 5/4		35%10YR 5/2	sic1	35	2	1	m	sbk	fi	
Cd	49+	10YR 5/4		30%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	49	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 6
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 2 to 3%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Btg	6 to 18	10YR 5/2	35%10YR 5/4		sicl	32	2	2	m	sbk	fi	
Bt	18t o 50	10YR 5/3		25%10yR 5/2	sicl	36	2	2	m	sbk	fi	
BC	50 to 55	10YR 5/4		30%10YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	55+	10YR 5/4		25%10Yr 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	55	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 7
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 2 to 3%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Btg1	6 to 24	10YR 5/2	35%10YR 5/4		sic1	35	2	2	m	sbk	fi	
Btg2	24 to 42	10YR 5/2	40%10YR 5/4		sic1	37	2	2	m	sbk	fi	
BC	42 to 52	10YR 5/4		25%10YR 5/2	sic1	36	2	1	m	sbk	fi	
Cd	52+	10YR 5/4		35%10YR 5/1	cl	34	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	52	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 8
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 2 to 3%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Btg1	6 to 19	10YR 5/1	25%10YR 5/6		sicl	32	2	2	m	sbk	fi	
Btg2	19 to 46	10YR 5/2	30%10YR 5/4		sicl	35	2	2	m	sbk	fi	
BC	46 to 56	10YR 5/4		35%10YR 5/1	sicl	32	2	1	m	sbk	fi	
Cd	56+	10YR 5/4		40%10YR 5/1	cl	30	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	56	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 9
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	6 to 16	10YR 5/3		25%10YR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	16 to 42	10YR 5/4		30%10YR 5/2	sicl	36	2	2	m	sbk	fi	
BC	42 to 44	10YR 5/4		40%10YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	44+	10YR 5/4		35%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	44	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 10
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	6 to 20	10YR 5/3		30%10YR 5/2	sic1	32	2	2	m	sbk	fi	
Bt2	20 to 35	10YR 5/4		35%10YR 5/2	sic1	38	2	2	m	sbk	fi	
BC	35 to 40	10YR 5/4		30%10YR 5/2	sic1	36	2	1	m	sbk	fi	
Cd	40+	10YR 5/4		25%10YR 5/2	cl	34	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	6	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	40	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 11
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	8 to 22	10YR 5/4			sic1	32	2	2	m	sbk	fi	
Bt2	22 to 35	10YR 5/4		15%10yR 5/2	sic1	36	2	2	m	sbk	fi	
BC	35 to 38	10YR 5/4		20%10YR 5/2	sic1	35	2	1	m	sbk	fi	
Cd	38+	10YR 5/4		15%10YR 5/2	cl	34	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	22	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	38	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 12
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
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Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Redoximorphic Features			Texture			Structure	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
Ap	0 to 8	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	8 to 20	10YR 5/6			sic1	30	2	2	m	sbk	fi	
Bt2	20 to 35	10YR 5/6			sic1	36	2	2	m	sbk	fi	
BC	35 to 40	10YR 5/4		5%10YR 5/2	sic1	34	2	1	m	sbk	fi	
Cd	40+	10YR 5/4		2%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	35	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	40	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 13
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 11.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 6	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	6 to 26	10YR 5/6			sic1	32	2	2	m	sbk	fi	
Bt2	26 to 32	10YR 5/6		5%10YR 5/2	sic1	36	2	2	m	sbk	fi	
BC	32 to 35	10YR 5/4		10%10YR 5/2	sic1	35	2	1	m	sbk	fi	
Cd	35+	10YR 5/4		5%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	26	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	35	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Morrow
 Township / Sec.: Harmony
 Property Address/Location: Corner of Roads 20 & 25
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 14
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Forbs & Grasses
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 11.0%
 Shape of Slope: Linear/ Linear
 Bedrooms or GPD: _____
 Date: Tuesday, August 09, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22H126
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 7	10YR 4/3			sil	20	2	2	m	gr	fr	
Bt1	7 to 23	10YR 5/6			sic1	34	2	2	m	sbk	fi	
Bt2	23 to 38	10YR 5/6			sic1	36	2	2	m	sbk	fi	
BC	38 to 42	10YR 5/4		5%10YR 5/2	sic1	34	2	1	m	sbk	fi	
Cd	42+	10YR 5/4		2%10YR 5/2	cl	32	5	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	38	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	42	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.