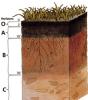
Soil and Environmental Consulting Services, Inc.



Friday, June 24, 2022

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

Re: Soil investigation for on-site septic disposal for the lot splits south of 3788 County Road 114, Harmony Township, Morrow County, Ohio

Enclosed you will find the requested detailed soil for the lot splits south of 3788 County Road 114, Harmony Township, Morrow County, Ohio

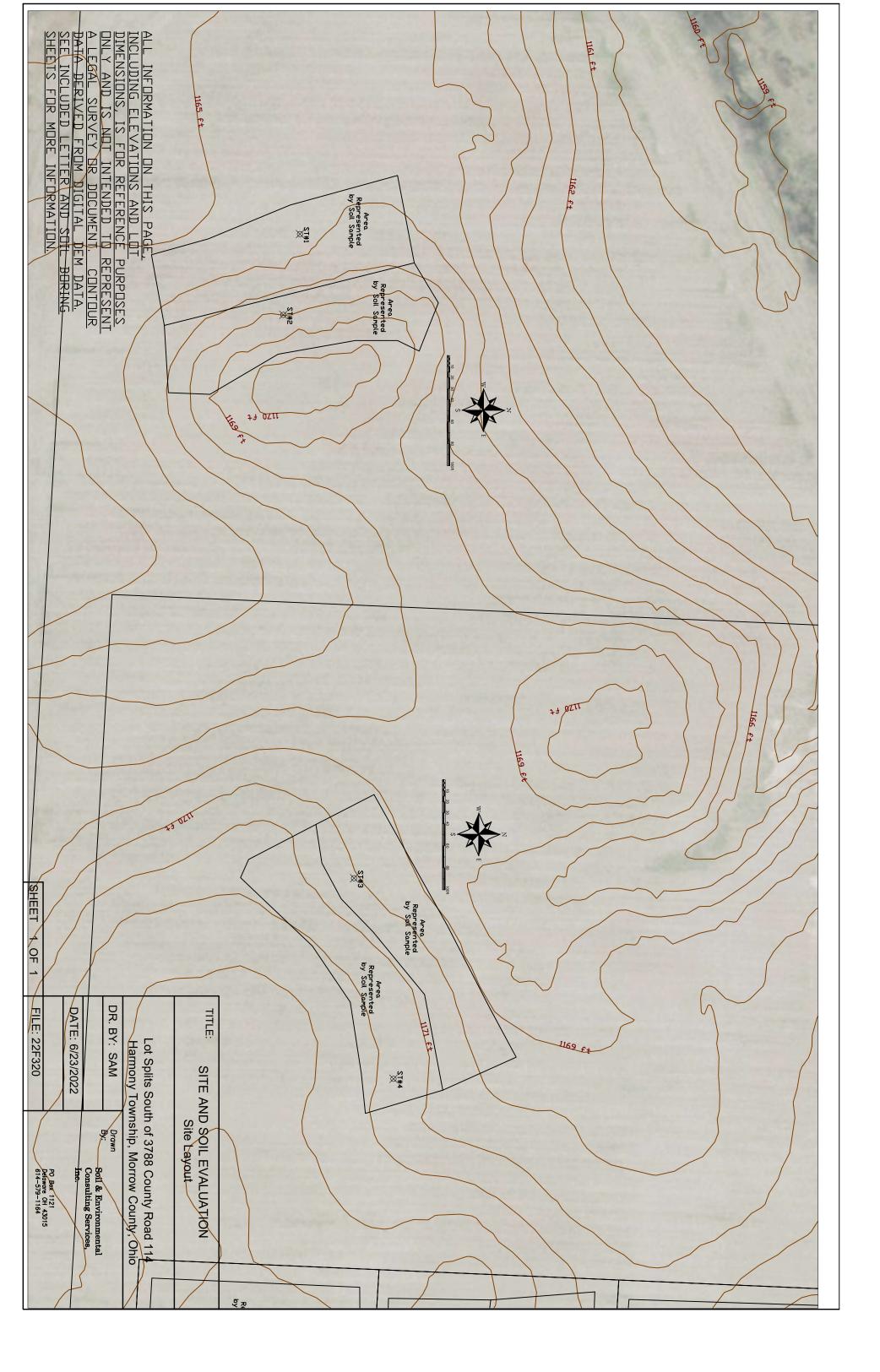
The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should 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.

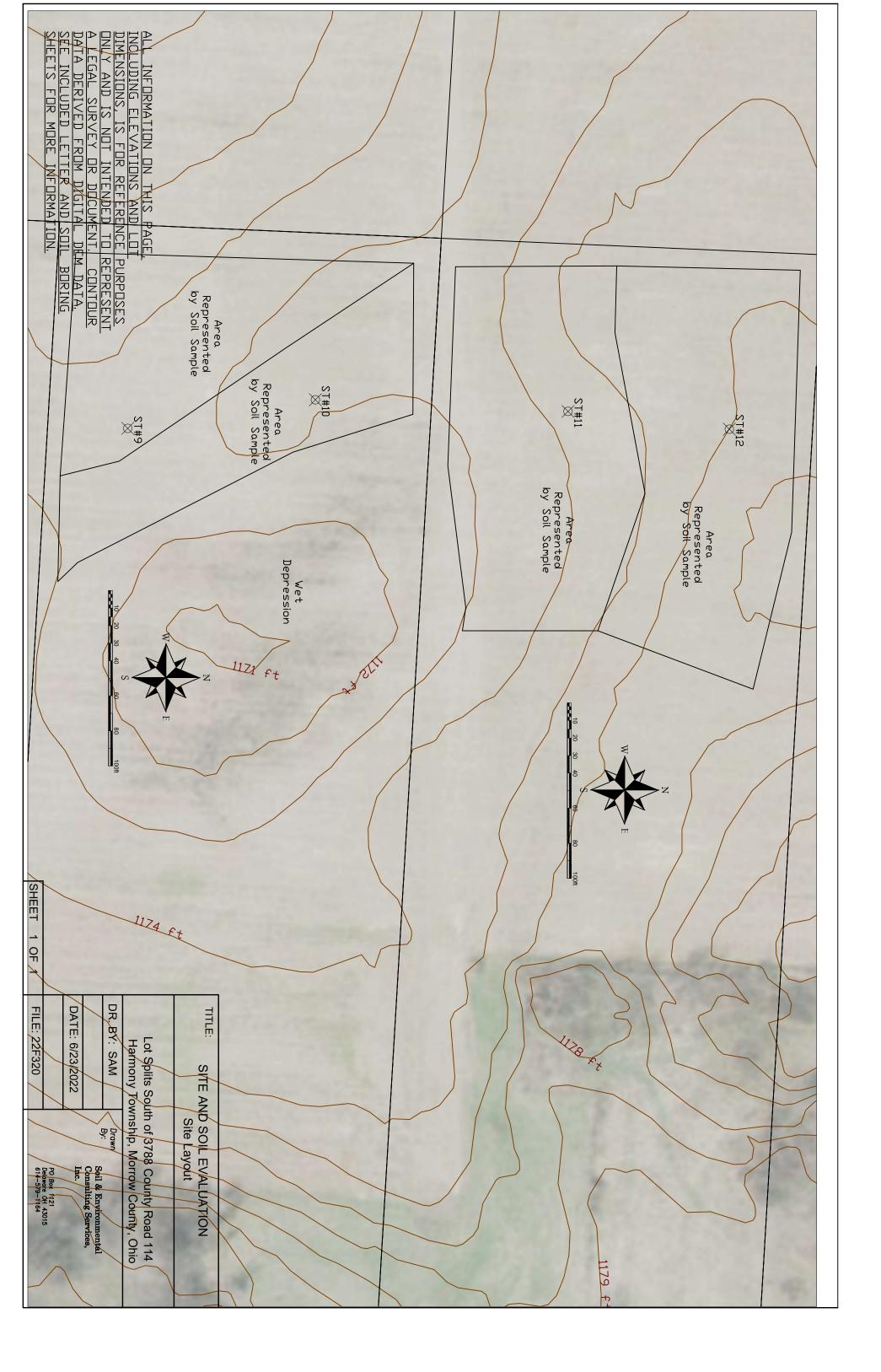
If you have any questions or want to move forward with the septic design process feel free to contact us.

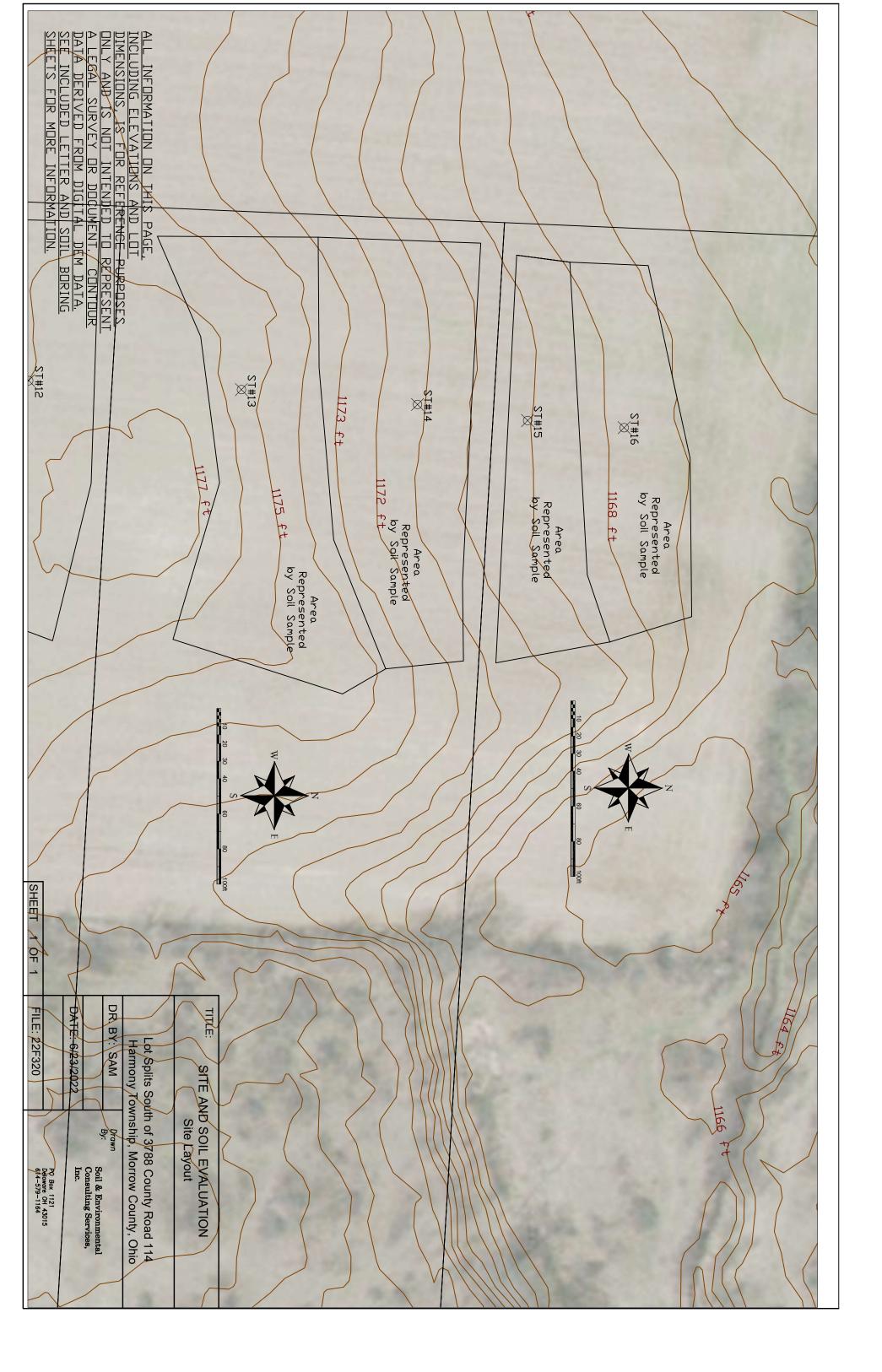
Steven Miller, CPSS











County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	:S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	.ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	÷	_	Percent Slope:						11	CREPACS !!!
Ap	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	ſ			155	the states of th
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
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	Lot #:	<u>-</u> 1					conmental Consu	-	Signature:	the	A the	2842
	Test Hole #:	1					P.O. Box 1121					
Latitu	ide/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
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Horizon	Depth (inches)	Matrix Color	Concentrations	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features	
Ар	0 to 9	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	9 to 22	10YR 5/4		25%10yR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	22 to 30	10YR 5/4		30%10YR 5/2	sicl	35	2	2	m	sbk	fi	
BC	30 to 33	10YR 5/4		25%10YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	33+	10YR 4/4		20%10YR 5/2	sil	30	5	0		m	vfi	
Limiting	Conditions	Depth (in	1)	Description				Rem	1arks / Risk Fac	ctors:		
Perched Seasonal Water Table 9 perc			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		33		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
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	_	Carding	-		Percent Slope:						1 1	CREPACS !!!
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	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
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	Test Hole #:	2					P.O. Box 1121					
Latitu	ude/Longitude:			,			elaware OH 430	/15	Phone#: <u>p</u>			
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					Soil Series:							
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5011	rome		ll Color (hue, value,		1		Estimatin	g Son rermea	ability		· · · · · · · · · · · · · · · · · · ·	
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	Depth	Matrix	itedoxiniorp	life I catures	<u> </u>	Approx.	Approx. %			Туре	1 1	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 9	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	9 to 25	10YR 5/4		15%10YR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	25 to 32	10YR 5/4		20%10YR 5/2	sicl	36	2	2	m	sbk	fi	
BC	32 to 36	10YR 5/4		30%10YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	36+	10YR 4/4		25%10YR 5/2	sil	32	5	0		m	vfi	
	Limiting Conditions Depth (in)			Description					1arks / Risk Fac			
			ched on glacial till	Surface wate	r should be di	verted around s	ystem. Subsur	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Sedrock >60					_							
Restrictive Layer		36		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	<u> </u>	_	Percent Slope:						11	CREPACS !!!
Apj	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1	States and and and
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
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	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	3					onmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	3					P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430	/15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			solicon	nsultant@ya	<u>ahoo.com</u>
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	Depth	Matrix	Redoxiniorp	life reatures	l	Approx.	Approx. %			Туре		
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 8	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	8 to 15	10YR 5/4		20%10yR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	15 to 21	10YR 5/4		25%!0YR 5/2	sicl	35	2	2	m	sbk	fi	
BC	21 to 24	10YR 5/4		20%10YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	24+	10YR 4/4		15%!10YR 5/2	sil	30	5	0		m	vfi	
	Limiting Conditions Depth (in)			Description					1arks / Risk Fac			
	Perched Seasonal Water Table 8 perch			ched on glacial till	Surface wate	r should be di	verted around s	ystem. Subsu-	rface ag drainag	ge may be pre	esent.	
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		24		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	:S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	
	_	Carding	÷	_	Percent Slope:						11	CREPACS !!!
Ap	oplicant Name:	Bruner Land	Company	_	Shape of Slope:		Linear / Linear	ſ			1	States and and and and
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	<u>-</u> 4					conmental Consu	-	Signature:	the	A the	2842
	Test Hole #:	4					P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
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Soll F	Profile		imating Soil Satura		4		Estimatin	ng Soil Permea	ability			
		Munsen	ll Color (hue, value,	ohic Features	L	Texture			Structure		<i>!</i>	
	Depth	Motrix	Kedoximorp	nic Features	l	1	Approx. %			Tumo	4 /	
Horizon	(inches)	Color	Matrix Color Concentrations Depletions			Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	8 to 16	10YR 5/4		15%10YR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	16 to 20	10YR 5/4		20%10YR 5/2	sicl	36	2	2	m	sbk	fi	
BC	20 to 22	10YR 5/4		25%!0YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	22+	10YR 4/4		30%10YR 5/1	sil	32	5	0		m	vfi	
Limiting	Conditions	Depth (in	i)	Description				Rem	1 narks / Risk Fac	ctors:		
Perched Seasonal Water Table 8 perc			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		22		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	<i>:</i> S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	÷	_	Percent Slope:						11	CREPACS !!!
Ap	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1.55	the states of th
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1	5 6	CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	5					conmental Consu	_	Signature:	Ale	A the	2842
	Test Hole #:	5					P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430	115	Phone#: <u>p</u>			1
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			solicon	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
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5011 1	Profile		ll Color (hue, value,		1		Estimatin	ng Soil Permea	ibility			
	Τ			ohic Features	l	Texture	—		Structure		·	
	Depth	Matrix	itedoxiniorp	life i catures	l	Approx.	Approx. %			Туре	1 /	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 9	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	9 to 19	10YR 5/4		20%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	19 to 30	10YR 5/4		25%10YR 5/2	sicl	37	2	2	m	sbk	fi	
BC	30 to 32	10YR 5/4		30%10YR 5/2	sicl	36	2	1	m	sbk	fi	
Cd	32+	10YR 4/4		25%10YR 5/2	sil	34	5	0		m	vfi	
Limiting Conditions Depth (in)			Description				Rem	arks / Risk Fac	ctors:			
			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsur	rface ag drainag	e may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		32		glacial till								

County: Morr			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	:S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony	_	Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(all))
	_	Cardin	÷	-	Percent Slope:						11	CREPACS !!!
App	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	1			1	in the second of
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL SOLE SCIENTIST J.S.
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	<u>-</u> 6					conmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	6					P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			solicon	nsultant@ya	<u>ahoo.com</u>
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	T			ohic Features		Texture	T		Structure		·/	
	Depth	Matrix	Kedoxiniorp			Approx.	Approx. %			Туре	-	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 9	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	9 to 18	10YR 5/4		15%10YR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	18 to 26	10YR 5/4		20%10YR 5/2	sicl	36	2	2	m	sbk	fi	
BC	26 to 29	10YR 5/4		25%!0YR 5/2	sicl	35	2	1	m	sbk	fi	
Cd	29+	10YR 4/4		20%10YR 5/2	sil	34	5	0		m	vfi	
	Limiting Conditions Depth (in)			Description					1arks / Risk Fac			
Perched Seasonal Water Table 9 perc			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsur	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock >60												
Restrictive Layer		29		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	:S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ac	.ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	÷	_	Percent Slope:						11	CREPACS !!!
Ap	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	ſ			1.55	the states of th
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL
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	Lot #:						conmental Consu	-	Signature:	the	A la	28423
	Test Hole #:	7					P.O. Box 1121				0	
Latitu	ide/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
<u> </u>							D	3. U.D.				
Soll F	Profile		imating Soil Satura		1		Estimatin	ng Soil Permea	ability		/	
		Munsel	ll Color (hue, value,		l	Tautuna			Strastara		!	
	Danth	Matuin	Redoximorp	phic Features	l	Texture	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Structure	T	4 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features	
Ар	0 to 10	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	10 to 17	10YR 5/4		20%10YR 5/2	sicl	35	2	2	m	sbk	fi	
Bt2	17 to 28	10YR 5/4		25%10RY 5/2	sicl	36	2	2	m	sbk	fi	
BC	28 to 30	10YR 5/4		20%10YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/2	sil	32	5	0		m	vfi	
Limiting	Conditions	Depth (in	ı)	Description				Rem	1arks / Risk Fac	ctors:		
Perched Seasonal Water Table 10 perc			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	irface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		30		glacial till								

County: Mo			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain				-	
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1 1	(all))
	_	Cardin	÷		Percent Slope:						11	CREPACS !!!
App	oplicant Name:	Bruner Land	Company		Shape of Slope:		Linear / Linear	<u>. </u>			1	in the second of
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1	1	CERTIFIED PROFESSIONAL SOLE SCIENTIST J.S.
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						onmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	8					P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430	115	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			solicon	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
6-91	D Cl-	I Eat	ing Soil Sotur				Estimatio	Call Damas	1.1114-1			
5011 1	Profile		imating Soil Satura ll Color (hue, value,				Estimatin	ng Soil Permea	ability		,	
	T		Redoximorp			Texture	T		Structure		·/	
	Depth	Matrix	Kedoxiniorpi			Approx.	Approx. %			Туре	1 1	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 9	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	9 to 22	10YR 5/4		15%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	22 to 30	10YR 5/4		25%10Yr 5/2	sicl	35	2	2	m	sbk	fi	
BC	30 to 35	10YR 5/4		15%!0Ry 5/2	sicl	34	2	1	m	sbk	fi	
Cd	35+	10YR 4/4		12%10YR 5/2	sil	32	5	0		m	vfi	
Limiting	Conditions	Depth (in	i)	Description				Rem	1 narks / Risk Fac	ctors:		
Perched Seasonal Water Table 9 perc			ched on glacial till	Surface wate	r should be di	verted around s	ystem. Subsur	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
edrock		>60										
Restrictive Layer		35		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	: 7	Forbs & Grasses	;S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:	:	Till Plain					
Property Ac	.ddress/Location:	Lot Splits South o		Posi	ition on Landform:	:	Backslope				1.	(a la la
	_	Carding	igton		Percent Slope:						11	CREEPacs)
Ap	plicant Name:	Bruner Land	l Company	_	Shape of Slope:		Linear / Linear	t				Ser les strange !!
	Address:			F	Bedrooms or GPD:						1	STEVENA MILLER
	_			-	Date:		sday, June 21, 2			1	1	CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:	<u>-</u> 9		-			conmental Consu	_	Signature:	the	A the	28423
	Test Hole #:	9					P.O. Box 1121				0	
Latitu	ude/Longitude:			-			elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	er <u>X</u> Probe		Job Number:		22F321			<u>soilcor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
6.31												
Soll F	Profile		timating Soil Satura		4		Estimatin	ng Soil Permea	ability			
		Munser	ll Color (hue, value,	e, chroma) phic Features	 	Texture	——		Stanoture			
	Douth	Motein	Kedoximorp	hic Features	 	1	1 A		Structure	Trme	1 /	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ар	0 to 8	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	8 to 15	10YR 5/4		10%10yR 5/2	sicl	30	2	2	m	sbk	fi	
Bt2	15 to 21	10YR 5/4		15%!0YR 5/2	sicl	35	2	2	m	sbk	fi	
BC	21 to 24	10YR 5/4		20%10YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	24+	10YR 4/4		15%!0YR 5/2	sil	30	5	0		m	vfi	
Limiting	Conditions	Depth (in	1)	Description				Rem	1 narks / Risk Fac	ctors:		
Perched Seasonal Water Table 8 perc			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		24		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	: 1	Forbs & Grasses	;S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	÷		Percent Slope:						11	CREPACS !!!
Ap	oplicant Name:	Bruner Land	Company	<u>.</u>	Shape of Slope:		Linear / Linear	:			1	States and a state of
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		esday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:)				ronmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	10	<u>) </u>				P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430	115	Phone#: p			1
	Method:	Pit Auger	er <u>X</u> Probe		Job Number:		22F321			<u>solicor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil I	Profile	- Fet	imating Soil Satura	ation			Estimativ	ng Soil Permea	ability			
5011 1	rome		ll Color (hue, value,		1		Estimatio	ig Son rermea	adinty			
	T		Redoximorp		I	Texture			Structure			
	Depth	Matrix		ine i catares	l	Approx.	Approx. %			Туре	1 /	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 8	10YR 4/3			sil	22	2	1	m	gr	fr	
Bt1	8 to 16	10YR 5/4		15%!0YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	16 to 22	10YR 5/4		18%10YR 5/2	sicl	35	2	2	m	sbk	fi	
BC	22 to 25	10YR 5/4		15%!0YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	25+	10YR 4/4		15%!0YR 5/2	sil	30	5	0		m	vfi	
	Limiting Conditions Depth (in)			Description					narks / Risk Fac			
			ched on glacial till	Surface wate	r should be di	iverted around s	ystem. Subsu	rface ag drainag	e may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		25		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	: 1	Forbs & Grasses	:S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ad	.ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	
	_	Carding	÷	_	Percent Slope:						1 1	CREPACS !!!
Арј	plicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1.55	States and and and
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		esday, June 21, 2			1	1	CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:						ronmental Consu	-	Signature:	the	A the	2842
	Test Hole #:	11	<u>. </u>				P.O. Box 1121					
Latitu	ide/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
<u> </u>							R 4 4	2.0.0				
Soll F	Profile		imating Soil Satura		4		Estimatin	ng Soil Permea	ability		· · · · · · · · · · · · · · · · · · ·	
		Munsen	ll Color (hue, value,	ohic Features	 	Texture			Structure		/	
	Depth	Matrix	Kedoximorp	nic Features	l	1	Approx. %			Tumo		
Horizon	(inches)	Color	Concentrations	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features	
Ар	0 to 10	10YR 3/3			sil	20	2	1	m	gr	fr	
Bt1	10 to 19	10YR 5/4		25%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	19t o 25	10YR 5/4		30%10yR 5/2	sicl	36	2	2	m	sbk	fi	
BC	25 to 30	10YR 5/4		25%10YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/2	sil	30	5	0		m	vfi	
Limiting (Conditions	Depth (in	i)	Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal Water Table 10 perch			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	ırface ag drainag	ge may be pro	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		30		glacial till								

County: Morrow			ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	:S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	(a la la
	_	Carding	÷		Percent Slope:						11	CREPACS !!!
Ap	oplicant Name:	Bruner Land	Company	<u>.</u>	Shape of Slope:		Linear / Linear	ſ			1	States and and and and
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	12					conmental Consu	-	Signature:	the	A the	2842
	Test Hole #:	12	<u>. </u>				P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
<u> </u>							D	3. U.D.				
Soll F	Profile		imating Soil Satura		4		Estimatin	ng Soil Permea	ability			
		Munser	ll Color (hue, value, Redoximorp		 	Texture			Structure		<i>!</i>	
	Depth	Matrix	Kedoximorp	nic Features	l	1	Approx. %			Tumo	4 /	
Horizon	(inches)	Color	Concentrations	Class	Approx. % Clay	Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features	
Ap	0 to 9	10YR 3.5/3			sil	20	2	1	m	gr	fr	
Bt1	9 to 18	10YR 5/4		15%10YR 5/2	sicl	34	2	2	m	sbk	fi	
Bt2	1 8 to 30	10YR 5/4		20%10YR 5/2	sicl	37	2	2	m	sbk	fi	
BC	30 to 32	10YR 5/4		15%10YR 5/2	sicl	36	2	1	m	sbk	fi	
Cd	32+	10YR 4/4		10%10YR 5/2	sil	34	5	0		m	vfi	
Limiting	Conditions	Depth (in	1)	Description				Rem	1 narks / Risk Fac	ctors:		
Perched Seasonal Water Table 9 perch			ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu	rface ag drainag	ge may be pre	esent.		
Apparent Water Table >60												
Highly Permeable Material >60												
Bedrock		>60										
Restrictive Layer		32		glacial till								

	County:	Morr	ow	Land	Use / Vegetation:]	Forbs & Grasse	s				* * * * * * * * * * * * * * * * * * *
То	wnship / Sec.:	Harm	ony		Landform:		Till Plain					
Property A	ddress/Location:	Lot Splits South c	of 3788 CR 114	Posi	tion on Landform:		Backslope				1	(all it
		Cardin	gton		Percent Slope:		2 to 3%				11	CREPACS !!
Ар	plicant Name:	Bruner Land	Company		Shape of Slope:		Linear / Linear	r			15	the second s
	Address:			I	Bedrooms or GPD:						1 1 24	STEVENA MILLER
					Date:	Tue	sday, June 21, 2	2022			1 2	CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:	Ste	ven Miller, CP	SSc		b	103	O SUE SUEINS
	Lot #:	_				Soil & Envir	onmental Cons	ulting, Inc.	Signature:	XD.	A la	28423
	Test Hole #:	13					P.O. Box 1121			with	020-2	
Latitu	ide/Longitude:					De	elaware OH 430)15	Phone#: 1			
	Method:	PitAuger	X Probe		Job Number:		22F321			<u>soilcor</u>	nsultant@ya	ahoo.com
					Soil Series:							
				-	-							
Soil 1	Profile		imating Soil Satur				Estimatin	ng Soil Perme	ability			
	1	Munsel	l Color (hue, value,			T (<u> </u>			
			Redoximorp	hic Features		Texture			Structure	Т	- 1	
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap	0t o 12	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	12 to 15	10YR 5/4		10%10yR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	15 to 20	10YR 5/4		15%!0RY 5/2	sicl	36	2	2	m	sbk	fi	
BC	20 to 25	10YR 5/4		10%10YR 5/2	sicl	35	2	1	m	sbk	fi	
Cd	25+	10YR 4/4		12%10YR 5/2	sil	34	5	0		m	vfi	
Limiting	Conditions	Depth (in	.)	Description				Rem	arks / Risk Fac	ctors:		
Perched Seasonal		12	perc	hed on glacial till	Surface wate	r should be di	verted around s	system. Subsu	rface ag drainag	e may be pro	esent.	
Apparent Water 7		>60										
Highly Permeable	e Material	>60										
Bedrock		>60										
Restrictive Layer		25		glacial till								

	County:	Morro	ow	Land	d Use / Vegetation:	: 1	Forbs & Grasses	;S				* = = : = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	
	_	Carding	<u> </u>	_	Percent Slope:	ope: 2 to 3%				11	CREPACS !!!	
Ap	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1	States and and and
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		esday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	14					ronmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	14	<u>i </u>				P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430)15	Phone#: p			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			<u>solicor</u>	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil I	Profile	- Est	imating Soil Satura	ation			Estimatia	ng Soil Permea	-1-11:4			
5011	rome		ll Color (hue, value,		1		Estimatin	g Son rermea	adinty			
	Τ			ohic Features	l	Texture	—		Structure		·/	
	Depth	Matrix		life i catures	<u> </u>	Approx.	Approx. %			Туре	1 1	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 10	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	10 to 18	10YR 5/4		15%10Yr 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	18t o 24	10YR 5/4		20%10yR 5/2	sicl	37	2	2	m	sbk	fi	
BC	24 to 30	10YR 5/4		25%10YR 5/2	sicl	36	2	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/2	sil	35	5	0		m	vfi	
	Conditions	Depth (in	i)	Description				Rem	narks / Risk Fac	ctors:		
Perched Seasonal		10	perc	ched on glacial till	Surface wate	r should be di	verted around s	system. Subsu-	ırface ag drainag	ge may be pre	esent.	
Apparent Water T		>60										
Highly Permeable	e Material	>60										
Bedrock		>60										
Restrictive Layer		30		glacial till								

	County:	Morro	ow	Land	d Use / Vegetation:	: 7	Forbs & Grasses	:S				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:	:	Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:	:	Backslope				1.	(a la la
	_	Carding	-	_	Percent Slope:	ent Slope: 2 to 3%				11	CREPACS !!!	
Apj	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear	:			1 150	States and and and
	Address:			_ F	Bedrooms or GPD:							STEVENA MILLER
	_			-	Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:			-	Evaluator:		even Miller, CPS			V	103	0
	Lot #:	15		-			conmental Consu	-	Signature:	the	A the	2842
	Test Hole #:	15	<u>.</u>	-			P.O. Box 1121					
Latitu	ude/Longitude:			-			elaware OH 430)15	Phone#: <u>p</u>			
	Method:	PitAuger	er <u>X</u> Probe		Job Number:		22F321			soilcor	nsultant@ya	ahoo.com
					Soil Series:							
<u> </u>								3. U.D.				
Soll F	Profile		timating Soil Satur		4		Estimatin	ng Soil Permea	ability			
		Wunser	ll Color (hue, value,	phic Features	 	Texture			Structure			
	Donth	Motrix	Kedoximorp	hic reatures	l	1	1 Among 0/			Tuno		
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Other Soil Features
Ap	0 to 8	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	8 to 17	10YR 5/4		20%10YR 5/2	sicl	33	2	2	m	sbk	fi	
Bt2	17 to 28	10YR 5/4		25%10YR 5/2	sicl	36	2	2	m	sbk	fi	
BC	28t o 32	10YR 5/4		20%10YR 5/2	sicl	34	2	1	m	sbk	fi	
Cd	32+	10YR 4/4		10%10YR 5/2	sil	32	5	0		m	vfi	
	Conditions	Depth (in	1)	Description					1arks / Risk Fac			
Perched Seasonal		8	perc	ched on glacial till	Surface wate	r should be di	verted around s	system. Subsur	rface ag drainag	ge may be pre	esent.	
Apparent Water T		>60										
Highly Permeable	e Material	>60										
Bedrock		>60										
Restrictive Layer		32		glacial till								

	County:	Morro	ow	Land	d Use / Vegetation:	. Ј	Forbs & Grasses	S.				* = = = · = · · · · · · · · · · · · · ·
To	ownship / Sec.:	Harmo	ony		Landform:		Till Plain					· · · · · · · · · · · · · · · · · · ·
Property Ac	ddress/Location:	Lot Splits South o	of 3788 CR 114	Posi	ition on Landform:		Backslope				1.	
	_	Carding	÷	_	Percent Slope:	: 2 to 3%				11	CREPACS !!!	
Ap	oplicant Name:	Bruner Land	Company	-	Shape of Slope:		Linear / Linear				1.55	the states of th
	Address:			. F	Bedrooms or GPD:							STEVENA MILLER
	_				Date:		sday, June 21, 2			1		CERTIFIED PROFESSIONAL
	Phone #:				Evaluator:		even Miller, CPS			V	103	0
	Lot #:	16	-				onmental Consu	-	Signature:	Ale	A the	2842
	Test Hole #:	16	<i>i</i>				P.O. Box 1121					
Latitu	ude/Longitude:						elaware OH 430	115	Phone#: <u>p</u>			
	Method:	PitAuger	r <u>X</u> Probe		Job Number:		22F321			solicon	nsultant@ya	<u>ahoo.com</u>
					Soil Series:							
Soil I	Profile	I Est	imating Soil Satura	ation			Estimatia	ng Soil Permea	-1-1164-1			
5011	Prome		ll Color (hue, value,				Estimatin	g Son rermea	ability			
	Τ			ohic Features	l	Texture	T		Structure			
	Depth	Matrix	itedoxiniorp	life i catures	<u> </u>	Approx.	Approx. %			Туре	1 1	
Horizon	(inches)	Color	Concentrations	Depletions	Class	% Clay	Fragments	Grade	Size	(shape)	Consistence	Other Soil Features
Ap	0 to 6	10YR 4/3			sil	20	2	1	m	gr	fr	
Bt1	6 to 20	10YR 5/4		15%10YR 5/2	sicl	32	2	2	m	sbk	fi	
Bt2	20 to 25	10YR 5/4		20%10YR 5/2	sicl	35	2	2	m	sbk	fi	
BC	25 to 30	10YR 5/4		25%10YR 5/2	sicl	32	2	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/2	sil	30	5	0		m	vfi	
	Conditions	Depth (in	ı)	Description					1arks / Risk Fac			
Perched Seasonal		6	perc	ched on glacial till	Surface wate	r should be di	verted around s	ystem. Subsur	rface ag drainag	ge may be pre	esent.	
Apparent Water T		>60										
Highly Permeable	• Material	>60										
Bedrock		>60			_							
Restrictive Layer		30		glacial till								

Landforms
Upland*
Terrace
Flood Plain
Lake Pain
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
0	Predominantly organic matter (litter &	а	Highly decomposed organic matter	
	humus)	b	Buried genetic horizon	Numerical Prefixes: Used to denote
А	Mineral, organic matter (humus)	d	Densic layer (physically root restrictive)	lithologic discontinuities.
	accumulation, loss of Fe, Al, clay	e	Moderately decomposed organic matter	
Е	Mineral, loss of Si, Fe, Al, clay, organic	g	Strong gley	
	matter	i	Slightly decomposed organic matter	Numerical Suffixes: Used to denote
В	Subsurface accumulation of clay, Fe, Al, Si,	р	Plow layer or artificial disturbance	subdivisions within a master
	humus; sesquioxides; loss of CaCo ₃ ;	r	Weathered or soft bedrock	horizon.
	subsurface soil structure	t	Illuvial accumulation of silicate clay	
С		w	Weak color or structure within B	
	Little or no pedogenic alteration,	х	Fragipan characteristics	
	unconsoilidated earthy material, soft bedrock		·	
R	Hard bedrock			

Soil Texture									
Texture Class Abbreviation	ons		Textural Class Modifiers						
Course Sand	cos		Gravelly	GR					
Sand	S		Fine Gravelly	FGR					
Fine Sand	fs		Medium Gravelly	MGR					
Very Fine Sand	vfs		Coarse Gravelly	CGR					
Loamy Coarse Sand	lcos		Very Gravelly	VGR					
Loamy Sand	ls		Extremely Gravelly	XGR					
Loamy Fine Sand	lfs		Cobbly	CB					
Loamy Very Fine Sand	lvfs		Very Cobbly	VCB					
Coarse Sandy Loam	cosl		Extremely Cobbly	XCB					
Sandy Loam	sl		Stony	ST					
Fine Sandy Loam	fsl		Very Stony	VST					
Very Fine Sandy Loam	vfsl		Extremely Stony	XST					
Loam	1		Bouldery	BY					
Silt Loam	sil		Very Bouldery	VBY					
Silt	si		Extremely Bouldery	XBY					
Sandy Clay Loam	scl		Channery	CN					
Clay Loam	cl		Very Channery	VCN					
Silty Clay Loam	sicl		Extremely Channery	XCN					
Sandy Clay	sc		Flaggy	FL					
Silty Clay	sic		Very Flaggy	VFL					
Clay	с		Extremely Flaggy	XFL					
*Estimate approximate cl	ay perc	cei	ntage within 5 percent						

Soil Structure									
Grade		Size		Type (Shap	e)				
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	1							
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.