

April 22, 2024

Joe Clase, AICP Plan4 Land LLC 1 South Harrison St., P.O. Box 306 Ashley, Ohio 43003

Mr. Clase:

Please consider this a feasibility report for the property located at 4910 State Route 257, Delaware, Ohio, and Parcel Nos. are 500-320 – 02-016-000 and 500-320-02-017-000 (Property). Smart Services Inc. conducted a soil evaluation on February 1, 2024, It is our understanding that the project consists of a 41.84-acre parcel and proposed Equestrian and Event Center.

The soil evaluation was to determine if the proposed lots have sufficient areas suitable for primary and secondary soil-based Household Sanitary Treatment Systems (HSTS).

Soils on the Property are in the Glynwood catena, topographic sequence, and consist of deep somewhat poorly drained soils formed in loamy glacial till with expected perched seasonal high-water tables ranging from 8 to 10 inches below the soil surface and a dense till restrictive feature at 50 inches of the soil surface. Both lots have sufficient area for HSTS. The specific HSTS has not been determined but could include spray irrigation, drip, or engineered mound. Copies of this letter, soil profile description, and aerial mapping should be submitted to the Delaware County Health Department (DCHD) for their approval.

If you have questions or need more information, please do not hesitate to contact me at 614.202.821 or electronically at mstrain@smartservices-inc.com.

Sincerely,

Mitchel R Strain

**SMART SERVICES, INC.** Mitchel R. Strain, CPSS

Director of Environmental Services

## Site and Soil Evaluation for Sewage Treatment and Dispersal

Method:	Latitude/Longitude: N/A	Test Hole #:	Parcel #:	Phone #:		Address:	Applicant Name:		Property Address/Location 4910 SR 257 S.	Township / Sec: Concord	County:
Method: X Pit X Auger Probe	N/A		Parcel #: 500-320-02-016-000 & 500-320-02-017-00	833.752.6452	Ashley, Ohio 43003	Address: 1 S. Harrison St., P.O. Box 306	Joe Clase, AICP, Plan 4 Land LLC	Delaware, Ohio 43015	4910 SR 257 S.	Concord	County: Delaware
	z	8		Evaluator: N	Date: 2		Shape of Slope: L	Percent Slope: 1	Position on Landform: H	Landform: U	Land Use / Vegetation: $\underline{P}$

I and I lee / Veretation:	Ac/Cross & Forks
	Upland
Position on Landform:	Flat
Percent Slope:	1-4
	Linear
Date:	2/1/24
Evaluator:	Mitchel R. Strain
	Smart Services Inc.
	88 W. Church St
	Newark Ohio

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ddress/Location	ddress/Location 4910 SR 257 S.	Position on Landform:	Flat	
	Delaware, Ohio 43015	Percent Slope:	1-4	
pplicant Name:	Joe Clase, AICP, Plan 4 Land LLC	Shape of Slope: Linear	Linear	
Address:	Address: 1 S. Harrison St., P.O. Box 306			
	Ashley, Ohio 43003	Date:	Date: 2/1/24	Certification Stamp or #: 02619
Phone #:	833.752.6452	Evaluator:	Mitchel R. Strain	
Parcel #:	500-320-02-016-000 & 500-320-02-017-00		Smart Services Inc.	Signature: Mutchel R Strain
Test Hole #:	1		88 W. Church St	
tude/Longitude:	N/A		Newark, Ohio	Phone #: 614.202.8621
Method:	Method: X Pit X Auger Probe			

								Dense Till	_	50	yer	Restrictive Layer
									0	>60		Bedrock
									1e	None	able Material	Highly Permeable Material
									1e	None	er Table	Apparent Water Table
							atrix	Reduced Matrix		8	Perched Seasonal Water Table	Perched Seas
	tors:	Remarks / Risk Factors:	temarks /	R			Votes	Descriptive Notes	o (in.)	Depth to (in.)	Limiting Conditions	Limiting
	vfi	m	NA	0	5	40	cl	10YR 5/2	10YR 5/6	10YR 4/3	50-60	Cd
	fi	sbk	со	1	5	40	cl	10YR 5/2	7.5YR 5/6	10YR 4/4	30-50	BCt
	fi	sbk	m	2	5	35	sicl	None	7.5YR 5/4	10 YR 6/2	8-30	Btg
Few Fine Roots	fr	sbk	m	2	2	20	sil	None	None	10 YR 5/4	7-8	BE
Few Fine Roots	vfr	gr	f	2	0	15	sil	None	None	10YR 4/3	0-7	Ap
	Consistence	Type (shape)	Size	Grade	Approx. % Fragments	Approx. % Clay	Class	Depletions	Concentrations	Color	Depth (inches)	Horizon
Features			Structure		·e	Texture		iic Features	Redoximorphic Features	Matrix		
Othor Soil		y	Писарии	manng son i ei meabinty	Estillati			ર, chroma)	Munsell Color (hue, value, chroma)	Munseli	1101116	301
		4	maa kilit	or Soil Par	Estimativ			ration	Estimating Soil Saturation	Esti	Sail Drafila	2

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ongitude: N/A  Method: X Pit X Auger Probe	2	500-320-02-016-000 & 500-320-02-017-00	833.752.6452	Ashley, Ohio 43003	1 S. Harrison St., P.O. Box 306	Joe Clase, AICP, Plan 4 Land LLC	Delaware, Ohio 43015	4910 SR 257 S.	Concord	County: Delaware

			Evaluator:	Date:	Shape of Slope:	Percent Slope:	Position on Landform:	Landform:	Land Use / Vegetation:
Newark, Ohio	88 W. Church St	Smart Services Inc.	Mitchel R. Strain	2/1/24	Linear	1-4	Flat	Upland	Ag/Grass & Forbs

Signature: Mitchel R Strain

Phone #: 614.202.8621

Certification Stamp or #: 02619

BE	Ар	Horizon		1 1100	Sect 1	
8-10	0-8	Depth (inches)		эон гтоше	ma fila	
10 YR 5/4	10YR 4/3	Color	Matrix	Munsell	Esti	
None	None	Concentrations Depletions	Redoximorphic Features	Munsell Color (hue, value, chroma)	<b>Estimating Soil Saturation</b>	
None	None	Depletions	hic Features	e, chroma)	ration	
sil	sil	Class				
20	15	Approx. % Clay	Texture			
2	0	Approx. Approx. % % Clay Fragments	·e	ESHIIIAH	Fatimati	
2	2	Grade		Estillating Son Fermeability	ar Cail Da	
m	f	Size	Structure	Гшеарш	amaa kili	
sbk	gr	Type (shape)	C	ιy		
fr	vfr	Consistence				
Few Fine Roots	Few Fine Roots		Features	Othor Soil		

BCt

30-50

10YR 4/4

7.5YR 5/6

10YR 5/2

<u>c</u>

40

S

co

sbk

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Cd

50-60

10YR 4/3

10YR 5/6

10YR 5/2

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Btg

10-30

10 YR 6/2

7.5YR 5/4

None

sicl

35

2

В

sbk

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Limiting Conditions	Depth to (in.)	Descriptive Notes	Remarks / Risk Factors:
Perched Seasonal Water Table	10	Reduced Matrix	
Apparent Water Table	None		
Highly Permeable Material	None		
Bedrock	>60		
Restrictive Layer	50	Dense Till	

## Site and Soil Evaluation for Sewage Treatment and Dispersal

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			Evaluator:	Date:	Shape of Slope:	Percent Slope:	Position on Landform:	Landform:	Land Use / Vegetation:
Newark Ohio	88 W. Church St	Smart Services Inc.	Mitchel R. Strain	2/1/24	Linear	1-4	Flat	Upland	Residential/Maintained Grass

I	l	l	l		Į	ļ
			Evaluator:	Date:	Shape of Slope: Linear	Percent Slope:
Newark, Ohio	88 W. Church St	Smart Services Inc.	Mitchel R. Strain	2/1/24	Linear	1-4
Phone #: 614.202.8621		Signature: Mutchal R Strain		Certification Stamp or #: 02619	•	

2	Destila	Esti	<b>Estimating Soil Saturation</b>	ration			Fatimatin	a Sail Da	maa kilid			
3011	Son Prome	Munsel	Munsell Color (hue, value, chroma)	e, chroma)			ESUMAUI	amating Son Fermeability	rmeabill	ý		Othan Call
		V fatair.	Redoximorphic Features	nic Features		Texture	e		Structure			Features
Horizon	Depth (inches)	Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	A Caral Co
Ap	0-7	10YR 4/3	None	None	sil	15	0	2	f	gr	vfr	Few Fine Roots
BE	7-8	10 YR 5/4	None	None	sil	20	2	2	m	sbk	fr	Few Fine Roots
Btg	8-30	10 YR 6/2	7.5YR 5/4	None	sicl	35	5	2	m	sbk	fĭ	
BCt	30-50	10YR 4/4	7.5YR 5/6	10YR 5/2	cl	40	5	1	со	sbk	fi	
Cd	50-60	10YR 4/3	10YR 5/6	10YR 5/2	cl	40	5	0	NA	m	fi	
Limiting	Limiting Conditions	Depth to (in.)	o (in.)	Descriptive Notes	Votes			F	Remarks	Remarks / Risk Factors:	ors:	
Perched Seaso	Perched Seasonal Water Table	8		Reduced Matrix	ıtrix							
Apparent Water Table	er Table	None	ne e									
Highly Permeable Material	able Material	None	ne									
Bedrock		>60	0									
Restrictive Layer	yer	50		Dense Till								

Eam/forms
Upland*
Terrace
Flood Plain
Lake Pain
Beach Ridge
*Includes glacial till
plain and end moraine

Caritica m	Landieria
Depression	
Flat	
Knoll .	
Crest	
Hillslope	
Footslope	

Shape of Step	
Convex	
Concave	
Linear	
Complex	

123	MENDO CONTRACTOR AND
	Master Horizons
0	Predominantly organic matter (litter & humus)
Α	Mineral, organic matter (humus) accumulation, loss of Fe, Al, clay
E	Mineral, loss of Si, Fe, Al, clay, organic matter
В	Subsurface accumulation of clay, Fe, Al, Si, humus, sesquioxides, loss of CaCo;, subsurface soil structure
С	Little or no pedogenic alteration, unconsoilidated earthy material, soft bedrock
R	Hard bedrock

	Horizon Suffixes	
a	Highly decomposed organic matter	
ь	Buried genetic horizon	
d	Densic layer (physically root restrictive)	
đ	Moderately decomposed organic matter	
3	Strong gley	
1	Slightly decomposed organic matter	
D	Plow layer or artificial disturbance	
ť	Weathered or soft bedrock	
	Illuvial accumulation of silicate clay	
w	Weak color or structure within B	
x	Fragipan characteristics	

lithologic discontinuities
Numerical Suffixes Used to denote
subdivisions within a master

horizon

Horizon Modifiers

Numerical Prefixes Used to denote

(1) 经证明第三级数	504	Texture	19 25
Texture Class Abbreviat	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	СВ
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	vťsl	Extremely Stony	XST
Loam		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	sici	Extremely Channery	XCN
Sandy Clay	3C	Flaggy	FL
	SIC	Very Flaggy	VFL
Silty Clay	C	Extremely Flaggy	XFL
Clay *Estimate <b>approxi</b> mate c	1		

	- 2	1 0	-	Type (Shape	
Grade		Size			
Structureless	0	Very Fine	νf	Granular	gr
Weak	1	Fine	f	Angular Blocky	abk
Moderate	2	Medium	m	Subangular Blocky	sbk
Strong	3	Coarse	co	Platy	pl
o ii o ii g	-	Very Coarse	VC	Prismatic	рг
		Extr Coarse	ec	Columnar	cpr
		Very Thin*	vn	Single Grain	sg
		Thin*	tn	Massive	m
		Thick*	tk	Cloddy	CDY
		Very Thick*	vk		

<sup>\*</sup> 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

Model Cnatherines		
Loose	1	
Very Friable	vtr	
Friable	្រំ	
Firm	fi 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.

