Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

			Owner	· Information	*			
Date	7/8/2019			Sec / Twp / Rng	S-18, T-49, R	R-26		
Parcel ID	35-0-030203			LUG (county, city, township)	Aitkin Co.			
Property Owner:	James Sandi	perg		Owners address (if different)				
Property Address:	39406 498th	Ln. Palisade	MN 56469	530 Linden	Ln.			
City / State / Zip:				Lino Lakes MN 55014				
		Flow Infe	ormation a	nd Waste Type / Strengt	h			
Estimated Design flow				Anticipated Waste strength	☐ Hi Strength	☐ Domestic		
				Any Non-Domestic Waste	☐ Yes (class V)	□ No		
Comments: Alter	nate site for pro	perty split		Sewage ejector/grinder pump	□ Yes	□ No		
				Water softener	□ Yes	□ No		
				Garbage Disposal	☐ Yes	□ No		
,				Daycare / In home business	☐ Yes	□ No		
			G:					
			Site	nformation				
Existing & proposed lot			☑ No	Well casing depth	Existing deep well			
Easements on lot lo (see site map)	cated	☐ Yes	☑ No	Drainfield w/in 100' of residential well	✓ Yes	□ No		
Property lines deter (see site map)	mined By Others	☑ Yes	□ No	Site w/in 200' of transient noncommunity water supply (T	☐ Yes (NCWS)	☑ No		
Req'd setbacks dete (see site map)	rmined	✓ Yes	□ No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	Yes	☑ No		
Utilities located & i		☐ Yes	☑ No	Buried water supply pipe w/in 50' of system	☐ Yes	☑ No		
Access for system r (shown on site map)	naintenance	✓ Yes	□ No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	☑ Yes	□ No		
Soil treatment area	protected	✓ Yes	□ No	Site map prepared with previous items included	☑ Yes	□ No		
Construction related	d issues	Alternate si	te is in a woo	ded area West of Driveway.				
		Alt Site	50' x 100'					

			Evidence of site:		
_			Cut	☐ Yes	☑ No
			Filled	☐ Yes	☑ No
			Compacted	☐ Yes	☑ No
Onicinal calls	□ Va=	□ N-	Disturbed	☐ Yes	☑ No
Original soils	Yes	☐ No			
Soil logs completed and attached	✓ Yes	□ No	Perk test completed and	☐ Yes	☑ No
			attached (if applicable)		
Soil loading rate (gpd/ft ²)	0.60		Description of the second		
son loading rate (gpd/It)	0.60		Percolation rate (if applicable)		
Depth/elev to SHWT	16"		Flooding or run-on potential	☐ Yes	☑ No
			(comments)		
Depth to system bottom maximum (or elev minimum)	NA				
mannum (or elev minimum)			Flood elevation (if applicable)		
Depth/elev to standing			(if applicable)		
water (if applicable)			Election C. W		
Depth/elev to bedrock			Elevation of ordinary high water level (if applicable)		
if applicable)	V.		(ii applicable)		
Soil Survey information	☐ Yes	□ No	Floodplain designation and		
determined (see attachment)	□ 1C3		elev - 100 yr/10 yr (if applicable)		
Differences between soil survey and field evaluation (if applicable)					
and field evaluation (if applicable)	-				
(8)					
11 - 1 - 20 1 - 2	mar so w	rs.			
nereby certify this evaluation wa	s completed	in accor	dance with MN 7080 and any local req's.		
I hereby certify this evaluation wa	s completed		dance with MN 7080 and any local req's. Brummer Septic LLC.		I -134

Company

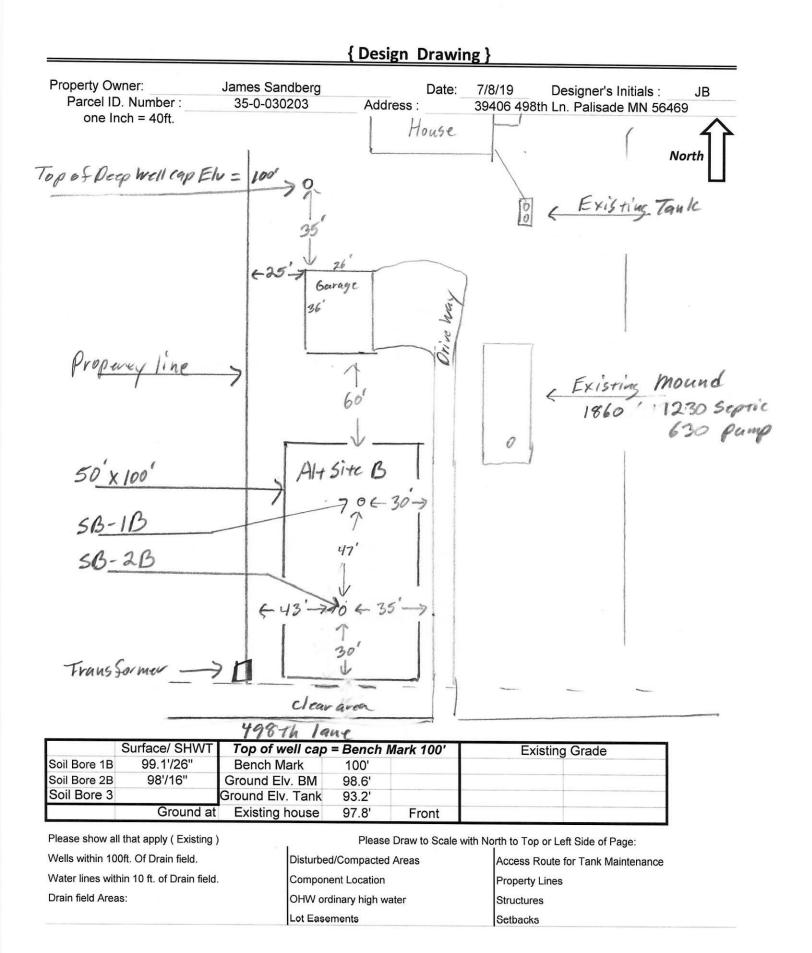
License #

Soil Observation Log

			Owner Info	ormation	www	.SepticResourc	ee.com vers 12.4
Property Ow Property Add		James Sano 39406 498	dberg th Ln. Palisade M	IN 56469	Date	7/8	/2019
			Soil Survey I	nformation	☐ refer t	o attached soil	survey
Parent matl's	:	☑ Till □	Outwash 🗆 La	custrine	vium 🗆 Org	ganic \square	Bedrock
landscape po	sition:	☐ Summit	☐ Shoulder	☑ Side slope	☐ Toe slope		
soil survey m	ap units:	204B & 928D		slope (3-6)	_% direction-	West	-
	Top of Deep W	ell Cap Elv.	= 100'				
			Soil Log #1B A	Alternite site			
	☑ Boring	☐ Pit	Elevation	99.1'	Depth to SHWT	26"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 26	Sandy Loam	<35	10YR4/4		Loose	Loose	Granular
26 - 29	Loam	<35	10YR5/4	7.5YR5/6 & 10YR6/2	Friable	Loose	Granular
		<35					
		<35					
Comments:		4					

39406 498	th Ln. Palisade N	/IN 56469	Soil Log	#2B Alternate	Site		
	☑ Boring	☐ Pit	Elevation	98'	Depth to SHWT	16"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	- shape
0 - 6	Topsoil Sandy Laom	<35	10YR3/2		Loose	Loose	Granular
6 - 16	Loam	<35	10YR6/3 E Horizon		Loose	Loose	Granular
16 - 21	Silt Loam	<35	10YR6/3E & 10YR4/4B E & B Horizon Blending	7.5YR5/4	Friable	Weak	Blocky
		<35					
		<35					
39406 498	th Ln. Palisade M	IN 56469	S	oil Log #3			
	☐ Boring	☐ Pit	Elevation		Depth to SHWT	,	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	– shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

I hereby certify this work was completed in accordance	with MN 7080 and any local reg's.	
Λ /// Λ		
July Brown	Brummer Septic LLC.	L-1347
Designer Sygnature	Company	License #





Detailed Parcel Report

Parcel Number: 35-0-030203

General Information

Township/City:

WAUKENABO TWP

Taxpayer Name:

SANDBERG, JAMES J & CYNTHIA

Taxpayer Address:

530 LINDEN LANE

LINO LAKES MN 55014

Property Address:

39406 498th Ln

Township:

49

Lake Number:

1014700

Range:

26

Lake Name:

ESQUAGAMAH LAKE

Section:

18

Acres:

6.00

Green Acres:

No

School District:

1.00

Plat:

Brief Legal Description:

BAL E 750 FT OF LOT 2 LESS 18.32 AC

Tax Information

Class Code 1:

Non-Comm Seasonal Residential Recreational

Class Code 2:

Unclassified

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2019

Estimated Land Value:

\$154,300.00

Estimated Building Value:

\$161,200.00

Estimated Total Value:

\$315,500.00

Prior Year Total Taxable Value:

\$248,200.00

Current Year Net Tax (Specials Not Included):

\$2,076.00

Total Special Assessments:

\$0.00

**Current Year Balance Not Including Penalty:

\$0.00

Delinquent Taxes:

No

^{*} For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

^{**} Balance Due on a parcel does not include late payment penalties.



Minnesota Well Index

SANDBERG, 615273 Quat. buried artes. Well Name: County: Aitkin Aquifer: JIM aquifer Drilled Depth Well Completed 1266 92 92 Date Drilled: 07/09/1998 (ft): Range: 26 Dir: W Section: 18 Depth To ABDADB Use: domestic Well Status: Active Bedrock: **Northland Well** Entry Date: 05/19/1999 Update Date: 11/21/2017

Related Resources:

General Information

Well Elevation (msl in

Unique Well ID:

feet):

Driller:

Township:

Subsection:

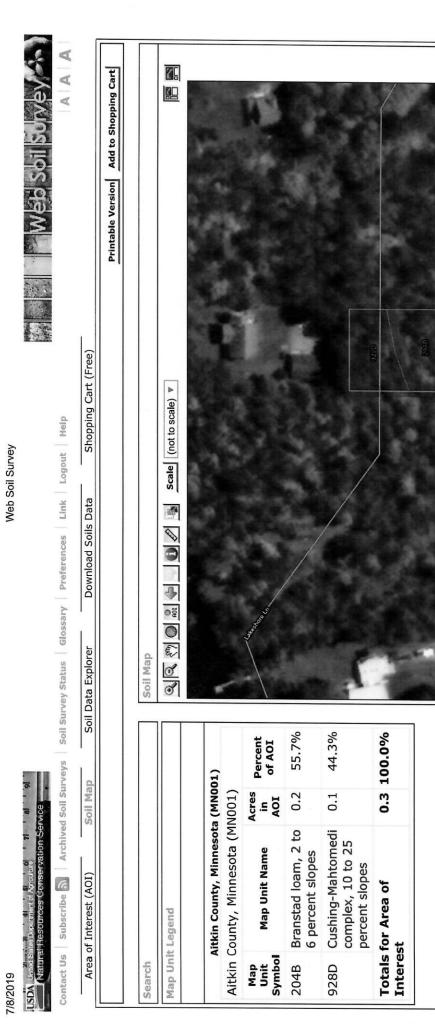
Go to MN Well Index Map Well Log Report Scanned Record(s) Stratigraphy Report

More Details Stratigraphy Address Chemical Data Construction Pump Test Static Water Comments

Location Changes Overview Map

Co.

Description	From(ft)	To(ft)	Color	Hardness	Lith Primary	Lith Secondary	Interpretation
SANDY CLAY (ROCKS)	0	20	BROWN	MEDIUM	CLAY	COBL	pebbly sand/silt/clay-brown
CLAY	20	55	GRAY	MEDIUM	CLAY		clay-brown
SAND (ROCKS)	55	92	GRAY	SOFT	SAND		sand +larger-gray



Warning: Soil Map may not be valid at this scale.

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map scale.

X

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Aitkin County, Minnesota

204B—Branstad loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: gjfx Elevation: 980 to 1,640 feet

Mean annual precipitation: 25 to 30 inches Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 140 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Branstad and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Branstad

Setting

Landform: Moraines

Landform position (two-dimensional): Backslope, summit

Down-slope shape: Linear Across-slope shape: Concave Parent material: Loamy till

Typical profile

A - 0 to 2 inches: loam

E,Bw,E',E/B - 2 to 17 inches: fine sandy loam

Bt1,Bt2 - 17 to 36 inches: loam Bt3 - 36 to 43 inches: loam C - 43 to 60 inches: loam

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: About 30 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Available water storage in profile: Moderate (about 8.5 inches)

Interpretive groups

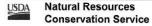
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C

Forage suitability group: Sloping Upland, Neutral (G090AN002MN)

Hydric soil rating: No



Minor Components

Alstad and similar soils

Percent of map unit: 3 percent Hydric soil rating: No

Cromwell and similar soils

Percent of map unit: 3 percent Hydric soil rating: No

Cutaway and similar soils

Percent of map unit: 3 percent Hydric soil rating: No

Hamre and similar soils

Percent of map unit: 2 percent Landform: Depressions Hydric soil rating: Yes

Seelyeville and similar soils

Percent of map unit: 2 percent Landform: Bogs Hydric soil rating: Yes

Talmoon and similar soils

Percent of map unit: 2 percent Landform: Swales Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 19, Sep 12, 2018

Aitkin County, Minnesota

928D—Cushing-Mahtomedi complex, 10 to 25 percent slopes

Map Unit Setting

National map unit symbol: gjk5 Elevation: 980 to 1,640 feet

Mean annual precipitation: 25 to 30 inches Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Cushing and similar soils: 45 percent Mahtomedi and similar soils: 40 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Cushing

Setting

Landform: Moraines

Landform position (two-dimensional): Shoulder, backslope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy till

Typical profile

E - 0 to 7 inches: loam B/E - 7 to 17 inches: loam Bt - 17 to 30 inches: loam C - 30 to 60 inches: loam

Properties and qualities

Slope: 10 to 25 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Forage suitability group: Sloping; Fine Texture (G090AN023MN)

Hydric soil rating: No



Description of Mahtomedi

Setting

Landform: Moraines

Landform position (two-dimensional): Shoulder, backslope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy and gravelly outwash

Typical profile

A - 0 to 3 inches: loamy coarse sand E - 3 to 13 inches: coarse sand

Bw - 13 to 25 inches: gravelly coarse sand

C - 25 to 60 inches: gravelly sand

Properties and qualities

Slope: 10 to 25 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (6.00 to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent Available water storage in profile: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Forage suitability group: Sandy (G090AN022MN)

Hydric soil rating: No

Minor Components

Alstad and similar soils

Percent of map unit: 8 percent

Hydric soil rating: No

Cathro and similar soils

Percent of map unit: 7 percent

Landform: Bogs Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 19, Sep 12, 2018