Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

Owner Information					
Date	4/19//2022	Sec / Twp / Rng	S-7, T-49, R-23		
Parcel ID	29-1-545800	LUG (county, city, township)	Aitkin Co.		
Property Owner:	Jeremy Paquette	Owners address (if different)			
Property Address:	50274 217th Ave. McGregor MN 55760	50801 237th	PI.		
City / State / Zip:		McGregor M	N 55760		

Flow Information and Waste Type / Strength					
Estimated Design flow 600	Anticipated Waste strength	🗌 Hi Strength	✓ Domestic		
Comments: Lake house is 2 bedrooms	Lake house is 2 hedrooms Any Non-Domestic Waste		✓ No		
Future building will be 2 bedrooms or total of 4 bedrooms.	Sewage ejector/grinder pump	Yes	✓ No		
Pump under road to 520 gal pump tank for mound	Water softener	Yes	✓ No		
There are 3 electric alarms in this system Installer try to install all alarms at house	Garbage Disposal	Yes	✓ No		
	Daycare / In home business	Yes	✓ No		

		Site I	nformation		
Existing & proposed lot improvements located (see site map)	Yes	✓ No	Well casing depth	Existing deep	well
Easements on lot located (see site map)	Yes	✓ No	Drainfield w/in 100' of residential well	Yes	✓ No
Property lines determined (see site map)	✓ Yes	🗌 No	Site w/in 200' of transient noncommunity water supply (T)	Yes NCWS)	✓ No
Req'd setbacks determined (see site map)	✓ Yes	No No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	Yes	✓ No
Utilities located & identified (gopher state one call)	Yes	✓ No	Buried water supply pipe w/in 50' of system	Yes	✓ No
Access for system maintenance (shown on site map)	✓ Yes	🗌 No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	✓ Yes	🗌 No
Soil treatment area protected	√ Yes	No No	Site map prepared with previous items included	✓ Yes	No No
Construction related issues	on related issues Directional bore from House Septic/Pump tank to Mound Pump tank				
P.200-5-	Alternate Si	te was done	at time of lot split North of Mo	und area	

Evidence of site: CutYesNoCutYesNoFilledYesNoCompactedYesNoDisturbedYesNoSoil logs completed and attachedYesNoSoil logs completed and attachedYesNoSoil loading rate (gpd/ft ²)0.60Percolation rate (if applicable)Depth/elev to SHWT20"Flooding or run-on potentialYesDepth to system bottom maximum (or elev minimum)(+ 18")Depth/elev to standing water (if applicable)Flood elevation (if applicable)Depth/elev to bedrock (if applicable)Elevation of ordinary high water level (if applicable)Depth/elev to bedrock (if applicable)Floodplain designation and elev - 100 yr/10 yr (if applicable)Differences between soil survey and field evaluation (if applicable)Yes		Soil	Information		
attached (if applicable) Soil loading rate (gpd/ft ²) 0.60 Percolation rate (if applicable) Depth/elev to SHWT 20" Flooding or run-on potential Yes Depth/elev to SHWT (+ 18") (comments) Depth/elev to standing	Original soils	✓ Yes 🗌 No	Cut Filled Compacted	Yes Yes	✓ No ✓ No
Depth/elev to SHWT 20" Flooding or run-on potential ☐ Yes ✓ No Depth to system bottom (+ 18") (comments) maximum (or elev minimum) Flood elevation (if applicable)	Soil logs completed and attached	✓ Yes 🗌 No		Yes	✓ No
Depth to system bottom (+ 18") maximum (or elev minimum) Flood elevation (if applicable) Depth/elev to standing Elevation of ordinary high water (if applicable) Elevation of ordinary high Depth/elev to bedrock water level (if applicable) (if applicable) Floodplain designation and Soil Survey information Yes Differences between soil survey No	Soil loading rate (gpd/ft ²)	0.60	Percolation rate (if applicable)		
Depth to system bottom (+18") maximum (or elev minimum) Flood elevation (if applicable) Depth/elev to standing	Depth/elev to SHWT	20"		Yes	✓ No
water (if applicable) Elevation of ordinary high Depth/elev to bedrock water level (if applicable) (if applicable) Floodplain designation and Soil Survey information Image: Yes determined (see attachment) No Differences between soil survey Elevation of ordinary high	maximum (or elev minimum)	(+ 18")			
Soil Survey information Image: Soil Survey information Image: Floodplain designation and elev - 100 yr/10 yr (if applicable) determined (see attachment) Image: Soil Survey Differences between soil survey Image: Soil Survey	Depth/elev to bedrock				
	Soil Survey information	🗸 Yes 🗌 No			

I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.

Designer significant

Brummer Septic LLC.

8

Company

L-1347

License #

Soil Observation Log

		www.Sep	oticResource.com vers 12.4
	Owner Information		
Property Owner / project:	Jeremy Paquette	Date	4/19//2022
Property Address / PID:	50274 217th Ave. McGregor MN 55760		
		te te constante a constante	

		Soil Survey	Information	refer to attached	d soil survey
Parent matl's:	✓ Till	✓ Outwash	Lacustrine Al	luvium 🗌 Organic	Bedrock
landscape position:	Summit	Shoulder	✓ Side slope	Toe slope	
soil survey map units:	13	53B & 204B	slope 2	% direction-West	

Soil Log #1						
Texture	Boring 🗸 F	Pit Elevation matrix color	94.5' redox color	Depth to SHWT consistence	20" grade	shape
Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
Sandy Loam	<35	10YR4/4		Loose	Loose	Granular
Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
Sandy Loam	<35	10YR5/4	7.5YR5/6 & 10YR6/2	Loose	Loose	Granular
	Texture Topsoil Sandy Loam Sandy Loam	Texture fragment % Topsoil Sandy Loam <35	Image: Description of the section of the	Boring Pit Elevation 94.5' Texture fragment % matrix color redox color Topsoil Sandy Loam <35	Boring Pit Elevation 94.5' Depth to SHWT Texture fragment % matrix color redox color consistence Topsoil <35	Boring Pit Elevation 94.5' Depth to SHWT 20" Texture fragment % matrix color redox color consistence grade Topsoil <35

Comments: Hand dug Soil Pits

50274 217t	50274 217th Ave. McGregor MN 55760 Soil Log #2						
	E	Boring 🗸	Pit Elevation	95.4'	Depth to SHWT	20"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 14	Sandy Loam	<35	10YR4/4		Loose	Loose	Granular
14 - 20	Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
20 - 24	Sandy Loam	<35	10YR5/4	7.5YR5/6 & 10YR6/2	Loose	Loose	Granular
50274 217	th Ave. McGreg	or MN 5576	50 S	oil Log #3			
	Bo	oring 🗌 Pi	t 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
- 200		<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.

 Designer/Stenature

Brummer Septic LLC.

L-1347 License #

	2011 purple code M	ound Design - Aitkin c	ounty www.SepticResource.com (vers 15.2)
	Property Owner:	Jeremy Paquette	Date: 4/19//2022
	Site Address:	50274 217th Ave. McGregor MN 55760	PID: 29-1-545800
	Comments:	Lake lot is 29-0-016400 and 29-0-016300	
instruc	ctions: = ent	er data = adjust if desired	= computer calculated - DO NOT CHANGE!
1)	4 bedroom	Type I Residential	System
2)	600 GPD design fl	low	
3)	No Garbage disp	osal or pumped to septic Install Jacobs	son 1650 2/Compartment tank
4)	1000 Gal Septic ta		eptic tank (design size / LUG req'd) options: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5)	1.2 GPD/ft ² mou	nd sand loading rate contour loading	rate of 12 req's a min 50 ft. long rockbed
6)	10.0 ft rockbed w	vidth 50.0 ft rockbed length	
7)	3.0 ft lateral spa		(maximum of 3 for both) fold connection
8)	3 laterals	48.0 feet long 17.0 perfs / latera (1/2 a perf means the	al 51 perfs total e first perf starts at the middle feed manifold)
9)	7/32 inch perfs at		gpm flow rate per perforation
	for this perf size & sp	pacing, & pipe size on line 12, max perfs/late	ral = 19, line #8 must be less> OK
10)	7.0 doses per day	y (4 minimum)	
11)	86 gallons per d	ose (treatment volume)	
			1.50 5x
12)	1.50 inch diamete	r laterals must be used to meet "4x pipe volu Mound Pump Tank	
13)	40 feet of	2.0 inch supply line leads to 7	gallons of drainback volume
14)	93 gallons TOTA	L pump out volume (treatment + drainback)	(Tip: "top feed" manifold to control the drainback)
14)			Install 520 Jacobson pump tank for Mound
15) 16)	12feet vertical29GPM @	lift from pump to mound laterals, leads to a: 19 feet of head, Pump requirement	(note: >50gpm may require an extra 3-6' of head)
17)	500 gal Dose tank	(code minimum) 520 gal Dose tank	(design size / LUG req'd) at 16.57 gpi
	leads to a		
18)		n Demand float, or timed dosing of 3.2 Average flow, =70% of Peak design flow) 5.1	min ON (confirm pump rate with drawdown hrs OFF test and adjust as necessary)
19)		bottom of tank to "Pump OFF" float	
20)		bottom of tank to "Pump ON" float, or 12	inches to "Timer ON" float if time dosed
21)		bottom of tank to "Hi Level" float, or 31	inches to "Hi Level" float if time dosed
22)	172 gallons reser	ve capacity (after High Level Alarm is activa	ted)

23)	0.60 gpd/ft ² Absorption area Soil Loading Rate, (this must match the soil boring log) which gives a mound ratio of 2 (minimum) desired mound ratio 2.0
24)	2 percent site slope (0-20% range) 2 (% downslope site slope, if different than upslope)
25) 26)	18 inches, or 1.5 ft. to Redox or other limiting condition (need at least 12" to be a Type I) Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a: 18 inch, or 1.5 ft. Sand Lift Mound CRITICAL FOR FUTURE CERTIFICATIONS!!!
27)	20.0 ft. base absorption width (with sand beyond rockbed as follows:)
28)	31.0 greater of: absorption width OR sand slope 0.0 ft. upslope and sideslope sand upslope 10.0 ft. Downslope sand down slope
	Individual slope ratios give BERM widths (topsoil beyond rockbed) of:
29)	4:1 upslope ratio 13 ft. upslope berm 4:1 sideslope 15 ft. sideslope berms
30)	4:1 sideslope 15 ft. sideslope berms 4:1 downslope 16 ft. downslope berm
31)	
32)	Overall Dimensions:10.0ft. wide by50.0ft. long Rock bed39ft. wide by80ft. long Mound footprint
	18" cover on top
Ι.	Upslope berm 13
1	Copulation and the pownstope berning and the
	12" cover on sides
	(6" loamy cap & 6" topsoil)
!	1.5 Clean sand lift
	1.5 Depth to Limiting
	Limiting Condition
	Absorption Width 31.0
	Note:1
	For 0 to 1% slopes, <i>Absorption Width</i> is measured from the <i>Bed</i> equally in both directions. For slopes >1%, <i>Absorption Width</i> is measured downhill from the upslope edge of the <i>Bed</i> .
33)	Rock Bed: 10.0 ft. by 50.0 ft. by 9 inches under pipe, plus 20% gives 23 yd ³ or *1.4= 32 ton
34)	Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired) 30.8 up + 42.3 downslope + 10.8 ends + 29.6 under rock = 136 yd ³ or *1.4= 191 ton plus 20%
35)	Loamy Cap: 35 ft. by 76 ft. 6" deep, plus 20% gives 60 yd ³ or *1.4= 84 ton
36)	Topsoil: 39 ft. by 80 ft. 6" deep, plus 20% gives 70 yd ³ or *1.4= 98 ton
	I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.
	Brummer Septic LLC. L-1347 4/19//2022 Destrict Rignature Company License# Date
	Des tant B ignature Company License# Date

There are 3 electric alarms in this system

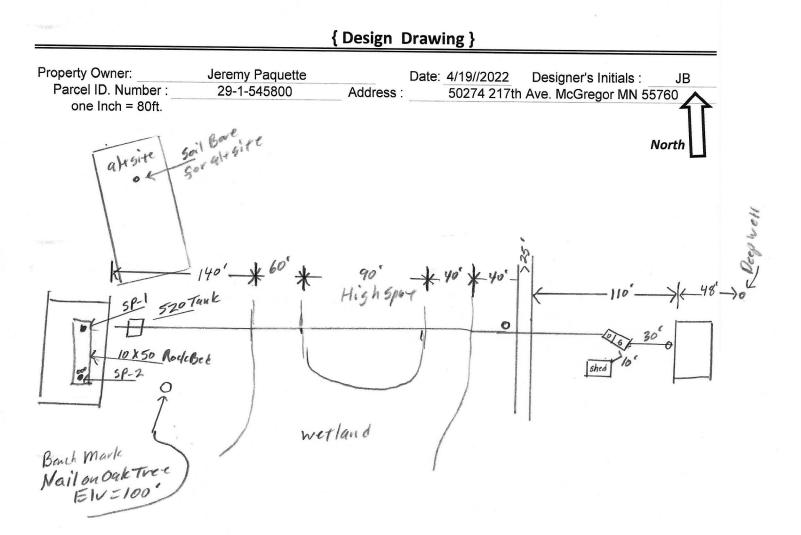
Lift Tank, Filter, pump tank Installer try to install all alarms at house

Installer Summary

1000 gallon Septic tai	nk (minimum)	Tank options:	none
		Install Jacobs	on 1650 2/Compartment tank
520 gallon Dose tank	k (minimum)	at	16.57 gpi
29 GPM @	19 ft. of head, Pu	mp required	
5.6 inch swing on D		translates to roughly	
	if time dosing		minutes ON time & 5.1 hours OFF time
	tom of tank to "pump		inches to "timer ON" float inches to "Hi level alarm" if time dosed
21 inches from bot	ttom of tank to "Hi Lev	el Alarm" or 31	Inches to An level alarm in time dosed
40 ft. of	2.0 inch supply line	with end feed]manifold connection (Tip: "top feed" manifold to control drainback)
18 inch, or	1.5 ft. Sand Lift Mo	ound	
10.0 ft. wide by	50.0 ft. long Rock b	ed	
	1.50 inch diameter	48.0 ft. lo	ng 3.0 ft. lateral spacing
7/32 inch perfs	3.0 ft. perforation	spacing	
Yes XX Effluent filter 8	+ alarm		
	ve box assemblies		
31.0 ft.Total sand A	BSORPTION width (min		
		• • • • •	ond rockbed, minimum)
	11.7 ft. Downslope	(sand beyond rock)	
	ratios give BERM widths		(bed) of:
4:1 upslope ratio 4:1 sideslope	13 ft. upslope berr 15 ft. sideslope be		
4:1 downslope	16 ft. downslope be		
	_	4" inspection pipe	2
	1	- 18" cover of	
L Upslope berm	13 1	(.	Downslope berm 16
Kobsiohe perm [
			12" cover on sides
			(6" loamy cap & 6" topsoil)
	1.5 Clean sand	d lift	
Г	1.5 Depth to L	imiting	
Limiting Condition			
		Absorption Width	31.0
Notor	r -		1
<u>Note:</u> For 0 to 1% slor	oes. Absorption Wi	<i>idth</i> is measured f	from the <i>Bed</i> equally in both directions.
For slopes >1%,	Absorption Width	is measured dow	whill from the upslope edge of the Bed.
Rock Bed:	23.0 yd ³ or *1.4=	32 ton	9 inches under pipe
Mound Sand:	136 yd ³ or *1.4=	191 ton	
Loamy Cap:	60 yd ³ or *1.4=	84 ton	6" deep
Topsoil:	70 yd ³ or *1.4=	98 ton	6" deep

but/4 2/17h New. McGregor MB 39/60 WHLL seleads: 20 to pressure tested sever line (5 psi for 15 mln) So to everything PROPERTY LINES seleads: 10 to oreserve tested sever line, (5 psi for 15 mln) So to everything Roud seleads: 10 for oreverything, 20 for dispersal area with shallow well LAKE / BLUPF seleads: 20 for bluff. Lakes: C0 Protected wetland				CKLIST - mound
Soft to everything 100 to dispersal area with shallow well PROPERTY LINES setback: 10 to everything 100, to everything Rad setback: 20 for bluff. LAKE / BLUFF setback: 20 for bluff. Building setbacks: 10 for everything. 20 for bluff. LAKE / BLUFF setback: 20 for bluff. Building setbacks: 10 for everything. 20 for bluff. LAKE / BLUFF setback: 20 for bluff. WATER LINE under pressure set 10 to bed, tank & sewer line. (else sewer line > 12' below, else ok w/pvc) sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8') (no depth req's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, linsulated, proper depth, existing verified by pumping) mfg				
PROPERTY LINES setback: 10 to everything Road setback: platted; 10 prop line. Metes & bounds: out of road easement, or outer ditch. LAKE, PLUEF setback: 10 for everything, 20 for dispersal area. Protected wetland				
Road setback: platted: 10 prop line. Metes 6 bounds: out of road easement, or outler ditch. LAKE / BLUFF setback: 20 for bluff. Lakes: GD_, NC_, NE_, Protected wetland Building setbacks: 10" for everything, 20 for dispersal area. WATER LINE under pressure as 10" to bed, tank & sewer line. (else sewer line > 12" below, else ok w/pvc) Sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8') (no depth reg's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) mfg				100 to dispersal area with shallow well
LAKE / BLUFF seback: 20' for bluff. Lakes: GDNR NE Protected wetland				Notes & hounds; out of read assement, or outer ditch
Building setbacks: 10° for everything, 20° for dispersal area. WATER LINE under pressure set 0° to bed, tank & sewer line. (else sewer line > 12° below, else ok w/pvc) Sewer line & baffle connection (no 90s, 3° between 45's, slope min 1° in 8', max 2° in 8') (no depth req's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) mig				
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Sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8') (no depth req's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) mfg		e		
<pre>(no depth req's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) mfg1000_gallons</pre>		WATER LINE under pressure se		
Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) mfg				
mfg1000_gallons none Riser over outlet, riser over inlet or center, and 6** inspection pipe over any remaining baffles. X00 Yes_effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg520_gallons dose pump29_gpm19_head_VERIFY PUMP CURVE 3.2_min ON1hr OFF float setting drop 5.6_inches at 16.6_gpi "DESIGNED" 3.8_inches approx float tether length LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30° max. J-hook weep hole. Supply line access (no hard 90's) 2.0_inch supply pipe: Sch40, sloped 1/8*+, supported by 4* sch40 sleeve or compacted, and buried 6*+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18_inches. X 50.0 Sand lift depth 18_inches 16_downslope a laterals (1.2* from edge of rock) 1.1.7 downslope alterals (1.2* from edge of rock) 1.3_upslope 15_sideslope 16_downslope 3.0_stile tetral spacing 3.0_stile tetral spacing 3.0_stile tetral spacing 17.32		(no depth req's, clear	1 out every 100', Sch 4	40 pipe)
mfg1000_gallons none Riser over outlet, riser over inlet or center, and 6** inspection pipe over any remaining baffles. X00 Yes_effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg520_gallons dose pump29_gpm19_head_VERIFY PUMP CURVE 3.2_min ON1hr OFF float setting drop 5.6_inches at 16.6_gpi "DESIGNED" 3.8_inches approx float tether length LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30° max. J-hook weep hole. Supply line access (no hard 90's) 2.0_inch supply pipe: Sch40, sloped 1/8*+, supported by 4* sch40 sleeve or compacted, and buried 6*+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18_inches. X 50.0 Sand lift depth 18_inches 16_downslope a laterals (1.2* from edge of rock) 1.1.7 downslope alterals (1.2* from edge of rock) 1.3_upslope 15_sideslope 16_downslope 3.0_stile tetral spacing 3.0_stile tetral spacing 3.0_stile tetral spacing 17.32		Cartie tank and visare (water	tight insulated prop	or depth ovicting varified by pumping)
Riser over outlet, riser over inlet or center, and 6*+ inspection pipe over any remaining baffles. No Yes effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg520 gallons dose pump29 gpm19 head VERIFY PUMP CURVE 3.2_min ON5.1_hr OFF float setting drop 5.6_inches at 16.6_gpi "DESIGNED" 3.8_inches approx float tether length LABEL pump requirements and drawdown on riser or panel inches float drop (field corrected LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0_inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 Sand lift depth 18_inches. flow flow part or cockbed 13_upslope 15_sideslope 16_downslope galterals (1-2' from edge of rock) 15_sideslope 16_downslope 3.0_ft lateral spacing 7/52_inch perforations 3				
bio Yess effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg		mig	gattons	lione
bio Yess effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg		Riser over outlet riser over i	nlet or center, and 6"+	+ inspection pipe over any remaining baffles.
Dose tank risers and piping (water tight, insulated, proper depth, drainback) mfg				
mfg				proper depth, drainback)
float setting drop 5.6 inches at 16.6 gpi "DESIGNED" 3.8 inches approx float tether length gpi LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 3.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections float measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18 inches. 50.0 Sand lift depth 18 inches. 11.7 downslope 11.7 downslope errmed topsoil beyond rock 9.3 upslope 16. downslope 15 sideslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2' from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft perforation spacing diatrial spacing 4'' inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary VERIFY				
float setting drop 5.6 inches at 16.6 gpi "DESIGNED" 3.8 inches approx float tether length gpi LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 3.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections float measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18 inches. 50.0 Sand lift depth 18 inches. 11.7 downslope 11.7 downslope errmed topsoil beyond rock 9.3 upslope 16. downslope 15 sideslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2' from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft perforation spacing diatrial spacing 4'' inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary VERIFY			10	
93.0 gal dose divided bygpi "INSTALLED" =inches float drop (field corrected LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0 2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound nock dimensions 10.0 X 50.0 Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)		dose pump	gpm	
93.0 gal dose divided bygpi "INSTALLED" =inches float drop (field corrected LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0 2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound nock dimensions 10.0 X 50.0 Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)		float setting drop 5.6	inches at	16.6 gpi "DESIGNED" 3.8 inches approx float tether length
LABEL pump requirements and drawdown on riser or panel Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)				
Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min) Absorption Sand beyond rock 9.3 upslope 11.7 downslope Bermed topsoil beyond rockbed 13 upslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2" from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft laterals, and at top feed manifold if necessary. VERIFY clean outs (no hard 90's) 4" inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary Re-use existing tank certification			-	
2.0_inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections flow measurement: CT, ETM, time dosed, home water meter mound absorption area rough up mound rock dimensions 10.0 X 50.0 Sand lift depth 18_inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)				
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Sand lift depth 18 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)		mound absorption area rough	up	
Absorption Sand beyond rock 9.3 upslope 11.7 downslope Bermed topsoil beyond rockbed 13 upslope 15 sideslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2' from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft perforation spacing Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY clean outs (no hard 90's) 4" inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary Re-use existing tank certification		mound rock dimensions		
Bermed topsoil beyond rockbed 13 upslope 15 sideslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2' from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft perforation spacing Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY clean outs (no hard 90's) 4" inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary Re-use existing tank certification monitoring plan and type		Sand lift depth18	inches. (Jar te	est : 2" sand leaves < 1/8" silt after 30 min)
Bermed topsoil beyond rockbed 13 upslope 15 sideslope 16 downslope cover depth of 12-18"+ VERIFY 3 laterals (1-2' from edge of rock) 1.50 inch pipe size (Sch40 pipe & fittings) 3.0 ft lateral spacing 7/32 inch perforations 3.0 ft perforation spacing Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY clean outs (no hard 90's) 4" inspection pipe to bottom of rock, anchored VERIFY Abandon existing system - if necessary Re-use existing tank certification monitoring plan and type		Absorption Sand beyond rock	9.3 upslor	pe 11.7 downslope
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monitoring plan and type		4" inspection pipe to bottom	of rock, anchored	VERIFY
monitoring plan and type		Abandon existing system - if	necessary	Re-use existing tank certification
	$\left - \right $			
	\square		necessary	

PumpTank 520 Mound 100.7' lateral 100 - bottom rock 18.5' grade (at upslope rock bed) SHWT (at upstope rock bed) TWHS - -945 Tank bottom L c UNA 2-DAMANANAVIANA 98.4 Grade 97[′] inlet 102 loamy cap 520 20" Elv= 100 benchmark Nail on OakTree Kow Mand Mound いらく (533) Septie-Tank (if applicable) 92 int -12+ 87 Tank bottom 953 Grade Big Sand take Elv on Y19/22 1216.4 or 87.9 runol a p F1 1761 たご different final grade is desired it should 89 Tank bottom (Grade elevations are existing. If a Septic Tank **75.3** Grade System Elevations 92.5 inlet be shown and described here.) 1120 tudas Sewer pipe exiting house **94.1** Grade 93 Pipe F

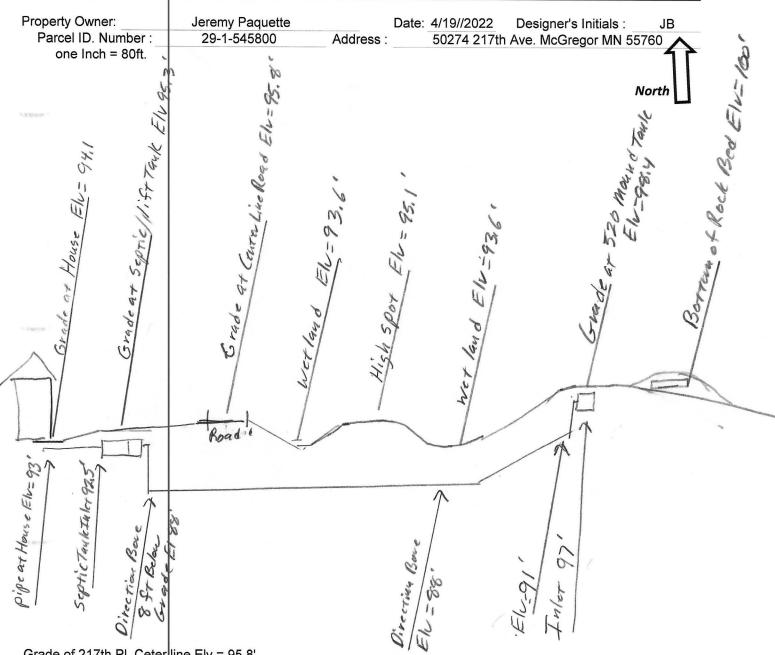


approx 465 St of Directional Bove from 1650 to 520 Tanks

Grade of 217th PI. Ceter line Elv.= 95.8' Wetland Elv. = 93.6' High Spot Future shed Elv. = 95.4' Grade of 520 gal Mound Pump Tank Elv. = 98.4'

Surface/ SHWT		Nail on Tree=	Bench M	ark 100'	Existing Grade		
Soil Pit 1	98.5' / 20"	Bench Mark	nch Mark 100' Upslope Edge of Rockbed Elv		Upslope Edge of Rockbed Elv.= 98.5'		
Soil Pit 2	98.4' / 20"	Ground Elv. BM	98.4'	Red Oak	Bottom of Rockbed Elv.= 100'		
Soil Bore 3		Ground Elv. Tank	95.3'	Septic	Top of Washed Sand Elv.= 100'		
	Ground at	house	94.1'		Elv. Of Sewer pipe at Cabin Elv.= 93.5'		

Please show all that apply (Existing)	Please Draw to Scale	with North to Top or Left Side of Page:
Wells within 100ft. Of Drain field.	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of Drain field.	Component Location	Property Lines
Drain field Areas:	OHW ordinary high water	Structures
	Lot Easements	Setbacks



{ Design Drawing }

Grade of 217th PI. Ceter Wetland Elv. = 93.6' High Spot Future shed E v. = 95.4' Grade of 520 gal Mound Pump Tank Elv. = 98.4'

	Surface/ SHW	Nail on Tree=	Nail on Tree= Bench Mark 100'		Existing Grade
Soil Pit 1	98.5' / 20'	Bench Mark	100'		Upslope Edge of Rockbed Elv.= 98.5'
Soil Pit 2	98.4' / 20'	Ground Elv. BM	98.4'	Red Oak	Bottom of Rockbed Elv.= 100'
Soil Bore 3		Ground Elv. Tank	95.3'	Septic	Top of Washed Sand Elv.= 100'
	Ground a	t house	94.1'		Elv. Of Sewer pipe at Cabin Elv.= 93.5'

Please show all that apply (Existing) Wells within 100ft. Of Drain field. Water lines within 10 ft. of Drair field. Drain field Areas: Please Draw to Scale with North to Top or Left Side of Page:

Property Lines

Structures

Setbacks

Access Route for Tank Maintenance

Disturbed/Compacted Areas Component Location OHW ordinary high water Lot Easements

Mound Design Notes - Aitkin county

Property Owner:	Jeremy Paquette	Date:	4/19//2022	
Site Address:	50274 217th Ave. McGregor MN 55760	PID:	29-1-545800	
Comments:	Mound design may not follow Aitkin co	Auto fill for	m for mound design.	

- 1 This is a type I mound for a 2 bedroom House. Owner wants a 4 bedroom mound for future use.
 Deep Well 25 ft from NE corner of House Lake side. House will have new sewer pipe out-let on West side of house.
 Libby Dam's Elv.= 1216.4 on 4/19/2022. (Big Sandy Flood is Elv.= 1223.9 or 95.4') (Lake Elv.= 1216.4 is 87.9').
 Bench Mark Elevation = 100' or 1228.5' is a nail on a Oak tree near SE corner of mound area.
- 2 Because of the wetlands and grade elevations between house and mound installer will directional bore from septic/lift tank by house to the 520 Mound pump tank. (Approx. 465 ft.)
- 3 The Back Lot has the property lines marked with Blue steel posts on corners. Wetlands have been delineated.
- Install Jacobson 1650 2/Compartment tank for gravity flow from existing house (Pipe Elv. not set)
 Install Effluent filter on septic tank outlet, install electric alarm on filter.
 The 533 lift tank will pump effluent to the Mound 520 pump tank, install pump with 20 GPM at 20 ft of head.
 (See Lift pump Sheet) Insulate Tank top and end where 2" pipe is installed up against the end of the tank.
- Installer will directional bore 2" pipe from septic tank to the Mound pump tank approx. 8 ft deep.
 The 2" directional bored pipe will not Drain-Back but only equalize in the pipe (Approx. 10 ft of drainback)
 The out let on the lift tank will be approx. 92'. The inlet on the 520 Mound Pump tank will be Approx. Elv.= 97'
 Insulate 520 pump tank top and the end where the 2" pipe is installed up against the end of the tank.
- 6 Elevation contour of rock bed upslope edge is 98.5'.

The area size of the rock bed is 10' x 50'. Absorption area is 50 ' x 31'.

Sand absorption area is 9.3 ft. up slope + 10 ft. rockbed + 11.7 downslope = approx. 31 ft. wide sand base. Berms are 13ft. Upslope, 16ft. Down slope, 10ft. Rock bed = approx. 39ft. Wide.

Overall mound size is approx. 39' wide x 80' long and approx. 3.5' high. End Berms are 15 ft wide.

- 7 The bench mark is the nail on the Oak tree near mound area, BM = Elv. 100'. Installer to double check bench mark. Installer should confirm bench mark and sand height Elv. with inspector. Installer should record bench mark Elv. and sand height on installation inspection form.
- 8 The top of the washed sand and bottom of rock bed is Elv. 100'.It is important that the soils do not get compacted, and that clean washed sand is used.
- 9 Install the 520 Mound pump tank inlet with 2" pipe dumping down into tank. Install the pump for 7 demand doses per day. approx. 93 gallons per dose, 5.6 inches of tank level. Install alarm at 3 inches from pump on level. Install all manholes, inspection pipes and clean-outs to 6" above, insulate top of tank.

Try to install Mound Pump Tank Alarm at the house, Some directional boring company's will pull 2 pipe one for wires? 10 Install a 2" supply pipe from tank to end manifold in rock bed, install so pipe drains back to tank.

Install 1.5" laterals with 9" of rock under them. (Install Lateral clean-outs at far end of laterals. Recommended)

11 Drill 7/32" holes for Perf sizing, 36" on centers.

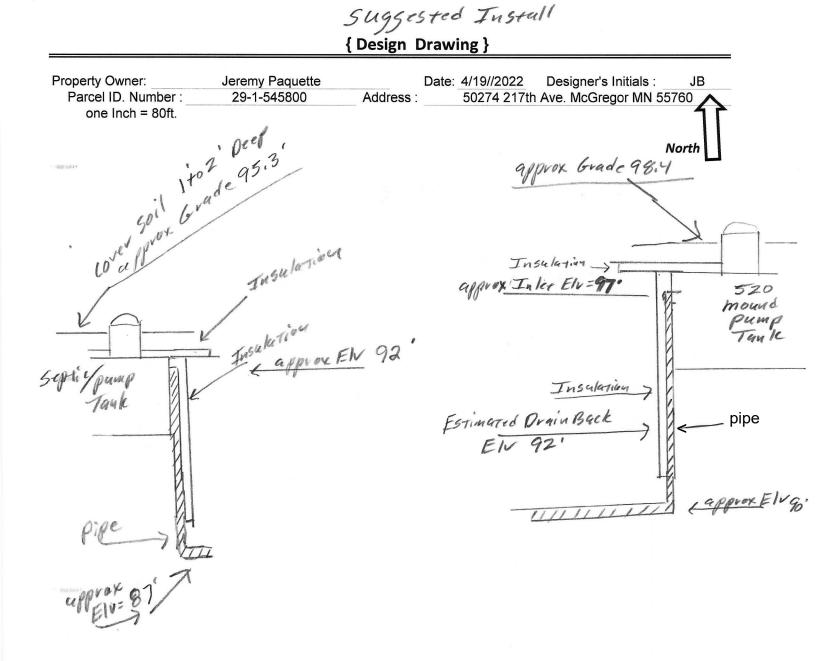
Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade. Designed to Aitkin Co. and MPCA recommendations and requirements.

man

Brummer Septic LLC. Design Company L-1347 License#

There are 3 electric alarms in this system

Installer try to install all alarms at house



Grade of 217th Pl. Ceter line Elv.= 95.8'
Wetland Elv. = 93.6'
High Spot Future shed Elv. = 95.4'
Grade of 520 gal Mound Pump Tank Elv. =

	Surface/ SHWT	Nail on Tree=	Bench M	ark 100'	Existing Grade	
Soil Pit 1	98.5' / 20"	Bench Mark	100'		Upslope Edge of Rockbed Elv.= 98.5'	
Soil Pit 2	98.4' / 20"	Ground Elv. BM	98.4'	Red Oak	Bottom of Rockbed Elv.= 100'	
Soil Bore 3		Ground Elv. Tank	95.3'	Septic	Top of Washed Sand Elv.= 100'	
	Ground at	house	94.1'		Elv. Of Sewer pipe at Cabin Elv.= 93.5'	

Please show all that apply (Existing) Wells within 100ft. Of Drain field. Water lines within 10 ft. of Drain field. Drain field Areas: Please Draw to Scale with North to Top or Left Side of Page:

Disturbed/Compacted Areas	Access Route for Tank Maintenance
Component Location	Property Lines
OHW ordinary high water	Structures
Lot Easements	Setbacks

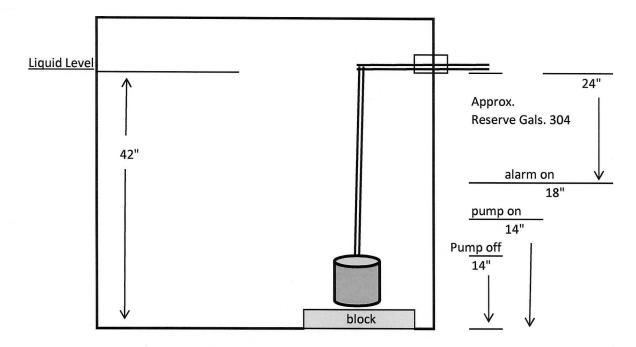
Pump settings for Jacobson 533 gal Lift pump tank at house

Jeremy Paquette

Parcel ID. 29-1-545800

This pump will be sized at 20 GPM and 20 ft of head (gravity discharge at mound tank end).

Tank Mfg.Jacobson 533 Gallon Pump tankLift tank at houseTank Size:MFG. 12.69 gals. Per inch



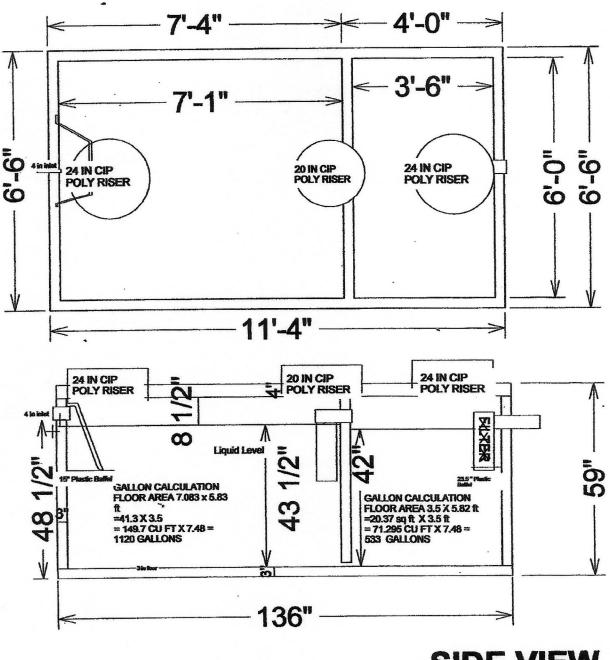
Assumes 10" pump

Pump out dose at 4" = (50 gals. dose + 2 drain back) = 52 pump out gals. 300 gpd ÷ 6 = 50 gals. Per Dose

Approx. 10 ft of 2" pipe will drain back into this tank or 2 gallons

<u>1650 Gallon 2 Compartment</u> Septic Tank

TOP VIEW



533 / 42" = 12.69 GPI

SIDE VIEW

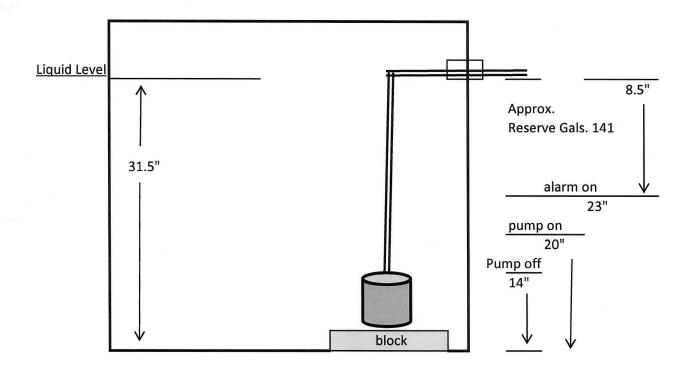
Drawings Owned BY Jacobson Precast, Inc. 36641 HWY 169, Aitkin, Mn 56431

Pump settings for Jacobson 520 gal pump tank for Mound

Jeremy Paquette

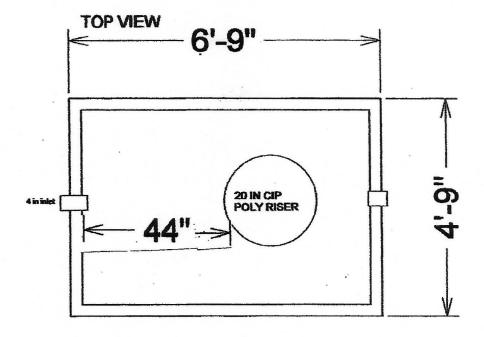
Parcel ID. 29-1-545800

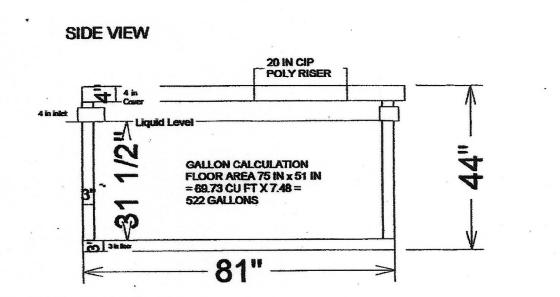
Tank Mfg.Jacobson 520 Gallon Pump tankTank Size:MFG. 16.57 gals. Per inch



Assumes 10" pump Pump out dose at 5.6" = (85 gals. dose + 8 drain back) = 93 pump out gals. $600 \text{ gpd} \div 7 = 85 \text{ gals.}$ Per Dose

520 Gallon Pump Tank



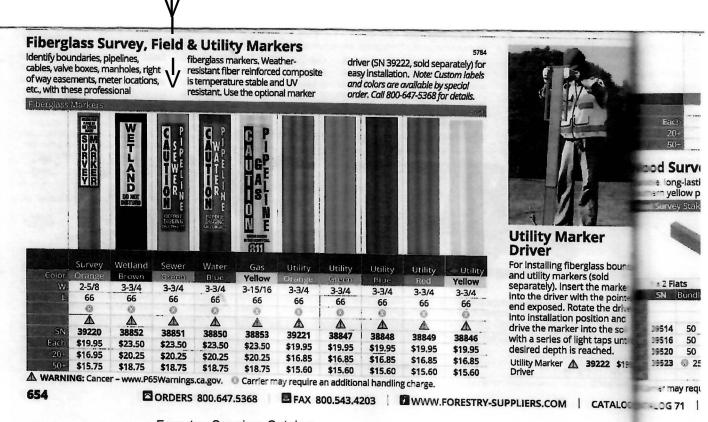


522 gals. / 31.5" = 16.57 GPI

Drawings Owned BY Jacobson Precast, Inc. 36641 HWY 169, Aitkin, Mn 56431 DDo not copy drawings without permission of the Owner Recommendation for a buried sewer pipe near or under a Road or Easement.

When crossing a Road or Easement the pipe line should be marked.

When installing a buried supply pipe across a Road or Easement there should be a tracer wire installed with the pipe for Future location .



Forestry Suppiers Catolog

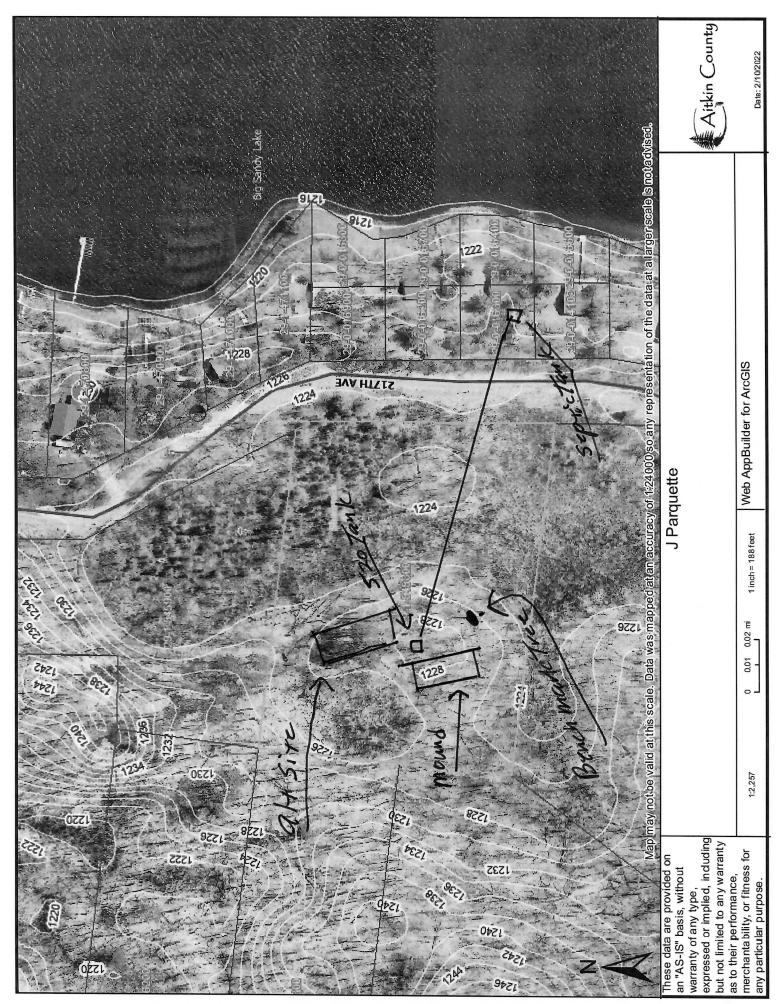
Version 2.0.85, 11/19/21 3.34PM



Minnesota Department of Health

Minnesota Well Index

General Information Quat. Unique Well Well MATTES, Aquifer: buried artes. 672973 County: Aitkin ID: Name: DENNIS aquifer Drilled Well Well Elevation Date 1221 Depth Completed 08/07/2002 123 123 (msl in feet): Drilled: (ft): (ft): Township: 49 Range: 23 Dir: W Section: 7 Depth Well Subsection: **CDBCDA** Use: domestic Active To Status: Bedrock: Hasskamp Entry Update Driller: 01/08/2003 12/13/2017 Bros. Well Date: Date: **Related Resources:** 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** Lith Lith From(f Hardn Description To(ft) Color Prima Secon Interpretation ess t) dary ry BROW MEDIU 0 CLAY SANDY CLAY 6 clay+sand-brown Ν Μ BROW MEDIU 6 SAND 15 SAND sand-brown N M MEDIU CLAY 15 56 GRAY CLAY clay-gray Μ MUD 56 82 GRAY SOFT MUDD cly/snd/slt-no peb.-gry pebbly sand/silt/clay-**CLAY & ROCKS** 82 117 GRAY HARD CLAY gray BROW MEDIU 123 SAND sand-brown SAND 117 N M





Detailed Parcel Report

Parcel Number: 29-1-545800

Fownship/City:	SHAMROCK TWP		Mound location
Taxpayer Name:	PAQUETTE, JEREMY M		
axpayer Address:	50801 237TH PL MCGREGOR MN 55760		
Property Address:			
Fownship:	49	Lake Number:	1906200
Range:	23	Lake Name:	BIG SANDY - BACK LOT
Section:	7	Acres:	0.00
Green Acres:	No	School District:	4.00
Plat:	GAP ACRES		
Brief Legal Description:	LOT 6 BLK 1		
Class Code 1: Class Code 2:	Rural Vacant Land Unclassified		
Class Code 1:	Rural Vacant Land		
Class Code 2: Class Code 3:	Unclassified		
Homestead:	Non Homestead		
Assessment Year:	2021		
Estimated Land Value:		\$4,000.00	
Estimated Building Value:		\$0.00	
Estimated Total Value:		\$4,000.00	
Prior Year Total Taxable Val	ue:		
	als Not Included):		3
Current Year Net Tax (Speci			
Current Year Net Tax (Speci Total Special Assessments:			
	Including Penalty:		

* 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.



Detailed Parcel Report

Parcel Number: 29-0-016400

Lake Shore - Lot. **General Information** Township/City: SHAMROCK TWP **Taxpayer Name:** PAQUETTE, JEREMY M & BECKY J **Taxpayer Address:** 50801 237TH PL MCGREGOR MN 55760 **Property Address:** 50274 217th Ave Township: 49 Lake Number: 1006200 Range: 23 Lake Name: **BIG SANDY LAKE** Section: 7 Acres: 0.42 Green Acres: No School District: 4.00 Plat: Brief Legal Description: S 100 FT OF N 300 FT LOT 10 **Tax Information** Class Code 1: Non-Comm Seasonal Residential Recreational - Cada 2

Class Code 2:	Unclassified	
Class Code 3:	Unclassified	
Homestead:	Non Homestead	
Assessment Year:	2021	

Estimated Land Value:	\$176,000.00
Estimated Building Value:	\$57,800.00
Estimated Total Value:	\$233,800.00
Prior Year Total Taxable Value:	\$228,700.00
Current Year Net Tax (Specials Not Included):	\$2,068.00
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.

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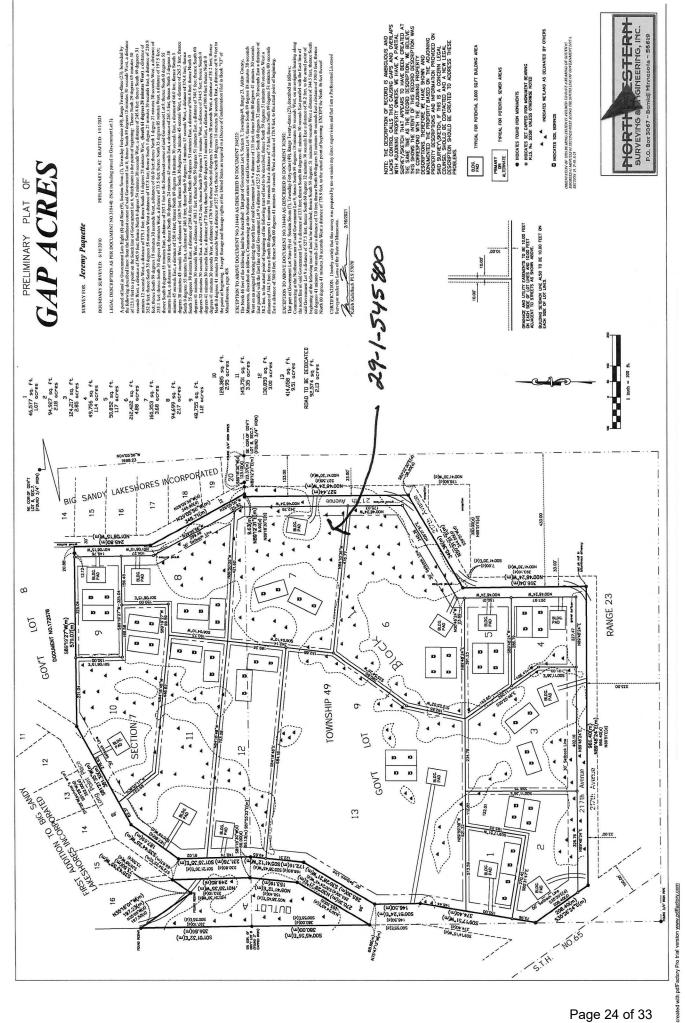
Detailed Parcel Report

Parcel Number: 29-0-016300

General Informa	tion Betu	reen lake	& Street. 217tha Tank location	ve
Township/City:	SHAMROCK TWP		Tank location	
Taxpayer Name:	PAQUETTE, JEREMY	M & BECKY J		
Taxpayer Address:	50801 237TH PL MCGREGOR MN 557	760		
Property Address:				
Township:	49	Lake Number:	1906200	
Range:	23	Lake Name:	BIG SANDY - BACK LOT	
Section:	7	Acres:	0.23	
Green Acres:	No	School District:	4.00	
Plat:				
Brief Legal Description:	100 X 100 FT LOT 9 I	N DOC 202217		
Tax Information				
Class Code 1:	Rural Vacant Land			
Class Code 2:	Unclassified			
Class Code 3:	Unclassified			
Homestead:	Non Homestead			
Assessment Year:	2021			
Estimated Land Value:		\$1,000.00		
Estimated Building Value:		\$0.00		
Estimated Total Value:		\$1,000.00		
Prior Year Total Taxable Va	alue:	\$1,000.00		
Current Year Net Tax (Spec	cials Not Included):	\$8.00		
Total Special Assessments	:	\$0.00		
**Current Year Balance No	ot 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.



University of Minnesota Site Evaluation Forn 5/16/2005



Property Owner(s) 4	J Development LLC.	C/O Jeremy	Paquette	Р		r 218-244-444	
Address Lot Split On Brid			sewer sites For	Parcel 7	PIOT	29-1- 5	54580
P.I.D. 29-0-014101	0	Section	Townsh		49 N	N Range	23
Date 11/6/2020	Time 1	0:00 AM	Weather conditio	ns sunny a	nd clear		
ocation Information x	shoreland		_ connecting to a c	ompliant sy	/stem	_replacement sy	/stem
	lot split info	_	other establishme	ent		new home con	struction
The formation							
Iomeowner Information	lot split bedr	come (includ	es possible addition	(2)			
No. of bedrooms (<i>if applicable</i>) No. of residents in home		hildren	es possible addition				
Estimated flow	_additsc gpd						
	gpu deep feet			Discharge	location if chee	cked	
Well casing depth	Garbage disposal		Water softener	Distinge	nooution it onto	onou -	
Water using devices (check)	_ Oarbage disposal Dishwasher	-	Sump pump			and the second se	
-	Large bathtub		High eff. furnace		······································		
-	Laundry/large tub on 2r	nd floor	Jucuzzi/hottub	**************************************			
-				1		modiantiana	
Water use concerns (check)	Toilet/faucet leaks			Long t	erm prescription	t of town substa	
_	_Home businessI	Lint screen	Antibact. soap	Freque	nt parties or out	t of town guests	
Soil Data							
Soil texture classification:							
Unnatural soil (check)	Yes	No					
Type of observation (check)	Probe	Pit	Boring				
Parent material (check)	Till	Outwash	Loess	Bedro	ck .	Alluvium	
Vegetation type (check)	Wet	Dry	Unknown				
Slope form (check)	Summit	Shoulder	Back	Foot		Toe	
Drainage (check)	Good	Fair	Poor	Pondi	ng	Flooding	
Located in floodplain (check)	Yes	No					0 11 110
				Soil Sur		Soil #1	Soil #2
Site Summary Data					sym & name		
Standing water:	No. of Concession, Name	ches			be position		
Bedrock:		ches		Flooding			
Saturated soil:	Married Control of Con	ches		Slope	1. 1. 1.		
Maximum depth of system:	Contraction of the second s	ches			ole depth		
Max elevation at system bottom:	fee			Bedrock			
Soil sizing factor (SSF):	general second s	d/ft ²			system depth		
Linear loading rate (LLR):	gp	d/ft		Texture			
Was a perc test done?	_Yes		_mpi	Permeat			
	No				PI) = 60 / P msite suitability		
Prof	. Site			NRCS C	insite suitaonity		<u> </u>
Son Doring Data	The second strates	Location:		i	1 - M M.	18 AL 18	
Boring 1Elevation:Soil Horizons Depth (inches)	Texture	LIVERIDAN	Color		Structure	Cons	sistence
0-2"	top soil	10 yr 3/2					
2-15"	loamy sand-some clay	10 yr 4/4					
2-13	mottles @ 15"						
	Lagart	Location		a kas	A	and the second	
Boring 2 Elevation:	Texture	Location	Color	1	Structure	Con	sistence
a new to make the short	ICALUIC						
Soil Horizons Depth (inches)	top soil	110 vr 3/2					
0-2"	top soil	10 yr 3/2		-			and the state of the
	loamy sand	10 yr 3/2 10 yr 4/4					
0-2"							

10.0

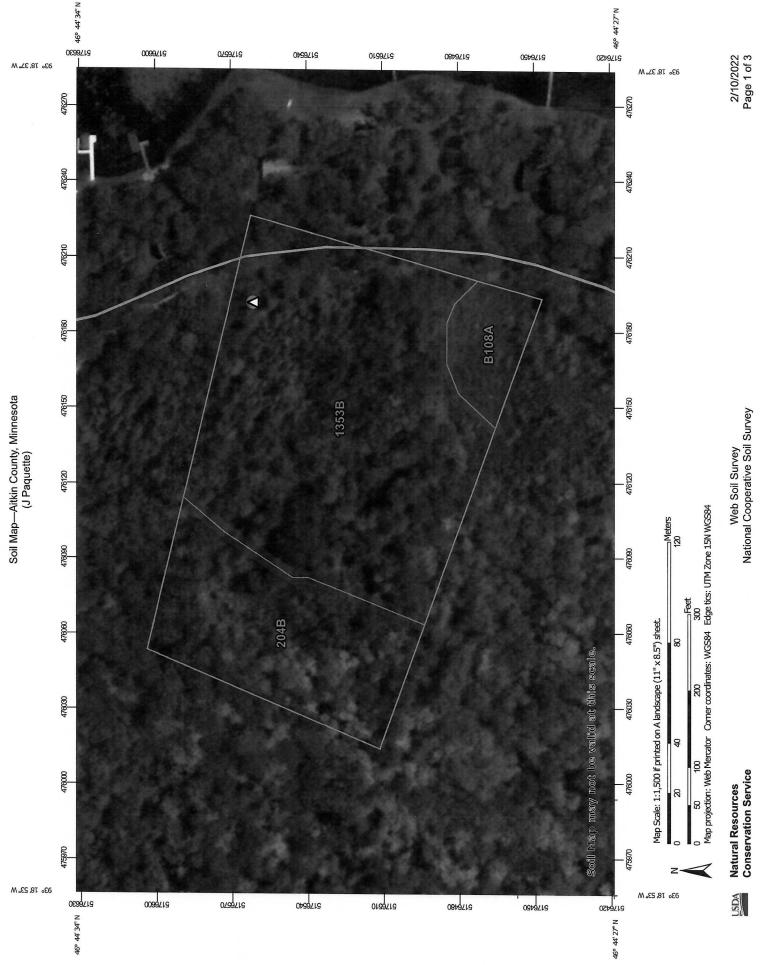
Alt. Site

Soil Horizons Depth		ion:		
(inches)	Texture	Color	Structure	Consistence
0-2"	top soil	10 yr 3/2		
2-15"	loamy sand	10 yr 4/4		
	mottles @ 15"			

Boring 4 Elevation Soil Horizons Depth	: Locat	ion:	1	All the second s
(inches)	Texture	Color	Structure	Consistence
0-2"	top soil	10 yr 3/2		
2-15"	sandy loam	10 yr 4/4		
	Mottles @ 15"			

Soil Horizons Depth (inches)	Texture	Color	Structure	Consistence
	Tenture			

Boring 6 Elevation:	Location:			
Soil Horizons Depth (inches)	Texture	Color	Structure	Consistence



Page 27 of 33

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): Summit, backslope 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 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 content: 10 percent Available water supply, 0 to 60 inches: 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)

JSDA

Other vegetative classification: Sloping Upland, Neutral (G090AN002MN) *Hydric soil rating:* No

Minor Components

Alstad 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

Cromwell 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

Talmoon and similar soils Percent of map unit: 2 percent Landform: Swales Hydric soil rating: Yes

Seelyeville and similar soils Percent of map unit: 2 percent Landform: Bogs Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 22, Sep 10, 2021

Aitkin County, Minnesota

1353B—Cutaway loamy fine sand, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: gjd4 Elevation: 980 to 1,310 feet Mean annual precipitation: 20 to 27 inches Mean annual air temperature: 37 to 41 degrees F Frost-free period: 95 to 105 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Cutaway and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cutaway

Setting

Landform: Moraines Landform position (two-dimensional): Summit, backslope Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy outwash over loamy till

Typical profile

A - 0 to 2 inches: loamy fine sand E,Bw,E' - 2 to 26 inches: loamy sand 2E/B,2B/E - 26 to 49 inches: loam 2C - 49 to 60 inches: loam

Properties and qualities

Slope: 1 to 6 percent Depth to restrictive feature: More than 80 inches 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 41 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum content: 20 percent Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: B Forage suitability group: Sloping Upland, Acid (G088XN006MN)

SDA

J Paquette

Other vegetative classification: Sloping Upland, Acid (G088XN006MN) *Hydric soil rating:* No

Minor Components

Northwood and similar soils

Percent of map unit: 6 percent Landform: Depressions Hydric soil rating: Yes

Sandwick and similar soils Percent of map unit: 6 percent Landform: Swales Hydric soil rating: Yes

Dusler and similar soils Percent of map unit: 3 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 22, Sep 10, 2021

Aitkin County, Minnesota

B108A—Cathro muck, occasionally ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2v0ln Elevation: 1,020 to 1,710 feet Mean annual precipitation: 23 to 30 inches Mean annual air temperature: 36 to 41 degrees F Frost-free period: 90 to 140 days Farmland classification: Not prime farmland

Map Unit Composition

Cathro, occasionally ponded, and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cathro, Occasionally Ponded

Setting

Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Parent material: Herbaceous organic material over till

Typical profile

Oa - 0 to 40 inches: muck *Cg - 40 to 79 inches:* loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.20 to 6.00 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Occasional

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Very high (about 19.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6w Hydrologic Soil Group: A/D Forage suitability group: Not Suited (G088XN024MN) Other vegetative classification: Not Suited (G088XN024MN)

USDA

Hydric soil rating: Yes

Minor Components

Cathro, frequently ponded

Percent of map unit: 10 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Other vegetative classification: Not Suited (G088XN024MN) Hydric soil rating: Yes

Seelyeville

Percent of map unit: 5 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Other vegetative classification: Not Suited (G088XN024MN) Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 22, Sep 10, 2021