Preliminary & Field Evaluation Form

24-062

Type III Mound, Varinace from Lake setback

www.SepticResource.com vers 12.4

Owner Information

Date	5/22/2024	Sec / Twp / Rng	S-9, T-49, R-23
Parcel ID	29-0-019508	LUG (county, city, township)	Aitkin Co.
Property Owner:	Andrew Ankrum	Owners address (if different)	
Property Address:	19042 509th Ln. McGregor MN 55760		2216 Thell Rd
City / State / Zip:			Wrenshall MN 55797

Flow Information and Waste Type / Strength

Estimated Design flow: 450

Comments: Type III Mound in same location as existing mound
Owner will need a variance from the lake setback for 65 ft.
Existing mound to be removed to Original soils
Aitkin Co Operating Permot Required

Anticipated Waste strength	☐ Hi Strength	☑ Domestic
Any Non-Domestic Waste	☐ Yes (class V)	☑ No
Sewage ejector/grinder pump	☐ Yes	☑ No
Water softener	☐ Yes	☑ No
Garbage Disposal	☐ Yes	☑ No
Daycare / In home business	☐ Yes	☑ No

Site Information

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) Surveyed	☑ Yes	☐ No	Site w/in 200' of transient noncommunity water supply (TNCWS)	☐ Yes	☑ No
Req'd setbacks determined (see site map)	☑ Yes	☐ 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	Site map prepared with previous items included	☑ Yes	☐ No

Construction related issues

Soil Information

Evidence of site:

Cut	☐ Yes	☑ No
Filled	☐ Yes	☑ No
Compacted	☐ Yes	☑ No
Disturbed	☑ Yes	☐ No

Original soils ☑ Yes ☐ No

Soil logs completed and attached ☑ Yes ☐ No

Perk test completed and attached (if applicable) ☐ Yes ☑ No

Soil loading rate (gpd/ft^2) 0.60

Percolation rate (if applicable) _____

Depth/elev to SHWT 14"

Flooding or run-on potential (comments) ☐ Yes ☑ No

Depth to system bottom maximum (or elev minimum) (+24")

Flood elevation (if applicable) _____

Depth/elev to standing water (if applicable) _____

Elevation of ordinary high water level (if applicable) 1216.56'

Depth/elev to bedrock (if applicable) _____

Floodplain designation and elev - 100 yr/10 yr (if applicable) 1223.9'

Soil Survey information determined (see attachment) ☑ Yes ☐ No

Lake Elv.= 1216.7 on 5/22/2024

Differences between soil survey and field evaluation (if applicable) _____

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

Designer Signature | Brummer Septic LLC. (Company) | L-1347 (License #)

19042 509th Ln. McGregor MN 55760			**Soil Log #2**				
		☑ Boring ☐ Pit	Elevation 97.8'		Depth to SHWT 18"		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 18	Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
18 - 24	Loam	<35	10YR5/3	7.5YR5/6 & 10YR6/2	Loose	Loose	Granular

19042 509th Ln. McGregor MN 55760			**Soil 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 req's.

Designer Signature

Brummer Septic LLC.
Company

L-1347
License #

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Andrew Ankrum Date 5/22/2024

Property Address / PID: 19042 509th Ln. McGregor MN 55760

Soil Survey Information

☐ refer to attached soil survey

Parent matl's: ☐ Till ☑ Outwash ☐ Lacustrine ☐ Alluvium ☐ Organic ☐ Bedrock

landscape position: ☐ Summit ☐ Shoulder ☑ Side slope ☐ Toe slope

soil survey map units: 454E slope 12 % direction- North

Soil Log #1

☑ Boring ☐ Pit Elevation 97.7' Depth to SHWT 13"

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 13	Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
13 - 20	Loam	<35	10YR5/3	7.5YR5/6 & 10YR6/2	Loose	Loose	Granular

Comments:

2011 purple code

Mound Design - Aitkin county

www.SepticResource.com (vers 15.2)

Property Owner: Andrew Ankrum **Date:** 5/22/2024

Site Address: 19042 509th Ln. McGregor MN 55760 **PID:** 29-0-019508

Comments: Type III on Disturber Soil, will need a variance for lake setback.

instructions: [ ] = enter data [ ] = adjust if desired [ ] = computer calculated - DO NOT CHANGE!

1) 3 bedroom Type III Residential System

2) 450 GPD design flow **Raise manholes to above 100 yr flood Elevation.**

3) No Garbage disposal or pumped to septic Install 1650 Jacobson 2/Compartment Septic/Pump tank

4) 1000 Gal Septic tank (code minimum) 1000 Gal Septic tank (design size / LUG req'd)
Tank options: none

5) 1.2 GPD/ft^2 mound sand loading rate contour loading rate of 12 req's a min 37.5 ft. long rockbed

6) 10.0 ft rockbed width 38.0 ft rockbed length **Use 38 ft. long Rockbed**

7) 3.0 ft lateral spacing 3.0 ft perforation spacing (maximum of 3 for both)
end feed manifold connection

8) 3 laterals 36.0 feet long 13.0 perfs / lateral 39 perfs total
(1/2 a perf means the first perf starts at the middle feed manifold)

9) 1/4" inch perfs at 1 feet residual head gives 0.74 gpm flow rate per perforation

for this perf size & spacing, & pipe size on line 12, max perfs/lateral = 16, line #8 must be less --> OK

10) 7.0 doses per day (4 minimum)

11) 64 gallons per dose (treatment volume)

1.50 5x

12) 1.50 inch diameter laterals must be used to meet "4x pipe volume" requirement

2.00 3x

13) 30 feet of 2.0 inch supply line leads to 5 gallons of drainback volume
(Tip: "top feed" manifold to control the drainback)

14) 69 gallons TOTAL pump out volume (treatment + drainback)

15) 15 feet vertical lift from pump to mound laterals, leads to a:

16) 29 GPM @ 21 feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)

17) 500 gal Dose tank (code minimum) 533 gal Dose tank (design size / LUG req'd) at 12.69 gpi
leads to a

18) 5.4 inch swing on Demand float, or timed dosing of 2.4 min ON (confirm pump rate with drawdown
(this delivers Average flow, =70% of Peak design flow) 5.2 hrs OFF test and adjust as necessary)

19) 12 inches from bottom of tank to "Pump OFF" float

20) 17 inches from bottom of tank to "Pump ON" float, or 12 inches to "Timer ON" float if time dosed

21) 20 inches from bottom of tank to "Hi Level" float, or 30 inches to "Hi Level" float if time dosed

22) 279 gallons reserve capacity (after High Level Alarm is activated)

23) 0.60 gpd/ft² 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) 12 percent site slope (0-20% range) 12 (% downslope site slope, if different than upslope)

25) 12 inches, or 1.0 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:

26) 24 inch, or 2.0 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

27) 20.0 ft. base absorption width (with sand beyond rockbed as follows:)
32.0 greater of: absorption width OR sand slope

28) 0.0 ft. upslope and sideslope sand upslope 5.0 Use 5 ft upslope
10.0 ft. Downslope sand down slope 17.0 Use 17 ft downslope

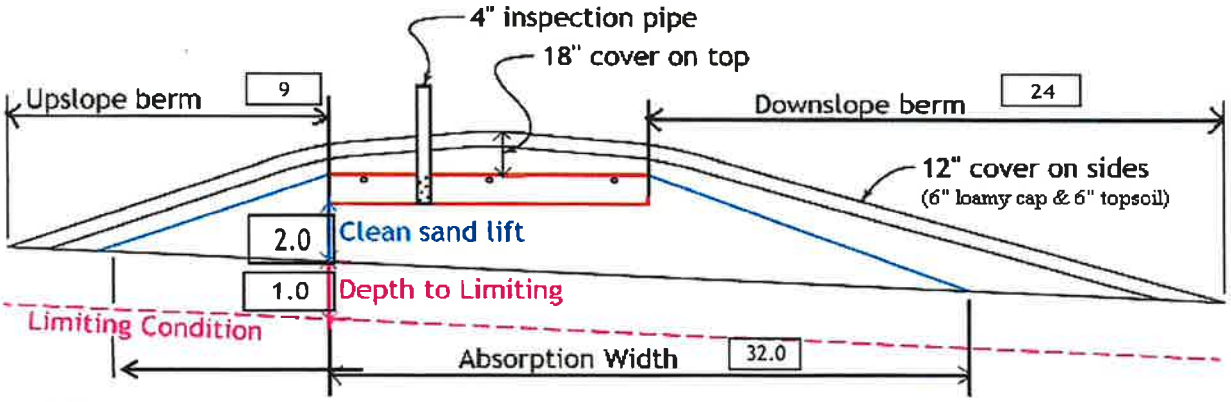
Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) 3:1 upslope ratio 9 ft. upslope berm

30) 3:1 sideslope 16 ft. sideslope berms

31) 3:1 downslope 24 ft. downslope berm

32) Overall Dimensions: 10.0 ft. wide by 38.0 ft. long Rock bed
43 ft. wide by 70 ft. long Mound footprint



Note:
For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

33) Rock Bed:
10.0 ft. by 38.0 ft. by 9 inches under pipe, plus 20% gives 17 yd³ or *1.4= 24 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)
23.6 up + 98.1 downslope + 19.6 ends + 36.6 under rock = 213 yd³ or *1.4= 299 ton
plus 20%

35) Loamy Cap:
39 ft. by 66 ft. 6" deep, plus 20% gives 58 yd³ or *1.4= 81 ton

36) Topsoil:
43 ft. by 70 ft. 6" deep, plus 20% gives 67 yd³ or *1.4= 94 ton

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Designer Signature	Company	License#	Date
	Brummer Septic LLC.	L-1347	5/22/2024

Aitkin Co Operating Permit Required

Event Counter and Alarm on Pump controller (Aitkin Co. Operating Permit)

Installer Summary

1000 gallon Septic tank (minimum)

Tank options: none

Install 1650 Jacobson 2/Compartment Septic/Pump tank at 12.69 gpi

533 gallon Dose tank (minimum)

29 GPM @ 21 ft. of head, Pump required

5.4 inch swing on Demand float which translates to roughly 3.7 inches of float tether length

if time dosing is required --> 2.4 minutes ON time & 5.2 hours OFF time

17 inches from bottom of tank to "pump ON" float, or 12 inches to "timer ON" float

20 inches from bottom of tank to "Hi Level Alarm" or 30 inches to "Hi level alarm" if time dosed

30 ft. of 2.0 inch supply line with end feed manifold connection

(Tip: "top feed" manifold to control drainback)

24 inch, or 2.0 ft. Sand Lift Mound

10.0 ft. wide by 38.0 ft. long Rock bed

3 laterals 1.50 inch diameter 36.0 ft. long 3.0 ft. lateral spacing

1/4" inch perfs 3.0 ft. perforation spacing

No Effluent filter & alarm

3 clean out & valve box assemblies

32.0 ft. Total sand ABSORPTION width (minimum)

5.0 ft. upslope and sideslope (sand beyond rockbed, minimum)

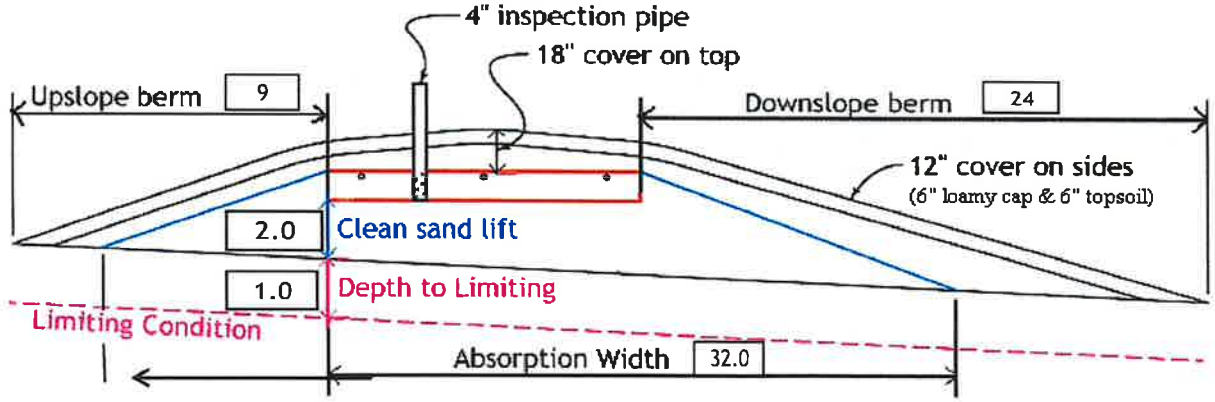
17.0 ft. Downslope (sand beyond rockbed, minimum)

Specific slope ratios give BERM widths (topsoil beyond rockbed) of:

3:1 upslope ratio 9 ft. upslope berm

3:1 sideslope 16 ft. sideslope berms

3:1 downslope 24 ft. downslope berm



Note:
For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Rock Bed:	17.0	yd^3 or *1.4=	24	ton	9 inches under pipe
Mound Sand:	213	yd^3 or *1.4=	299	ton	
Loamy Cap:	58	yd^3 or *1.4=	81	ton	6" deep
Topsoil:	67	yd^3 or *1.4=	94	ton	6" deep

INSPECTOR CHECKLIST - mound

19042 509th Ln. McGregor MN 55760

☐ WELL setbacks: 20' to pressure tested sewer line (5 psi for 15 min)
50' to everything 100' to dispersal area with shallow well

☐ PROPERTY LINES setback: 10' to everything

☐ Road setback: platted: 10' prop line. Metes & bounds: out of road easement, or outer ditch.

☐ LAKE / BLUFF setback: 20' for bluff. Lakes: GD ___, RD ___, NE ____. Protected wetland ___.

☐ Building setbacks: 10' for everything, 20' for dispersal area.

☐ WATER LINE under pressure se 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, insulated, proper depth, existing verified by pumping)
mfg_____ 1000 gallons none

☐ Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.

☐ No effluent filter & alarm

☐ Dose tank risers and piping (water tight, insulated, proper depth, drainback)
mfg_____ 533 gallons

☐ dose pump _____ 29 gpm 21 head VERIFY PUMP CURVE 2.4 min ON 5.2 hr OFF

☐ float setting drop 5.4 inches at 12.7 gpi "DESIGNED" 3.7 inches approx float tether length
69.0 gal dose divided by _____ gpi "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 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 38.0

☐ Sand lift depth 24 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)

☐ Absorption Sand beyond rock 5.0 upslope 17.0 downslope

☐ Bermed topsoil beyond rockbed 9 upslope 16 sideslope 24 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

☐ 1/4" 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 _____

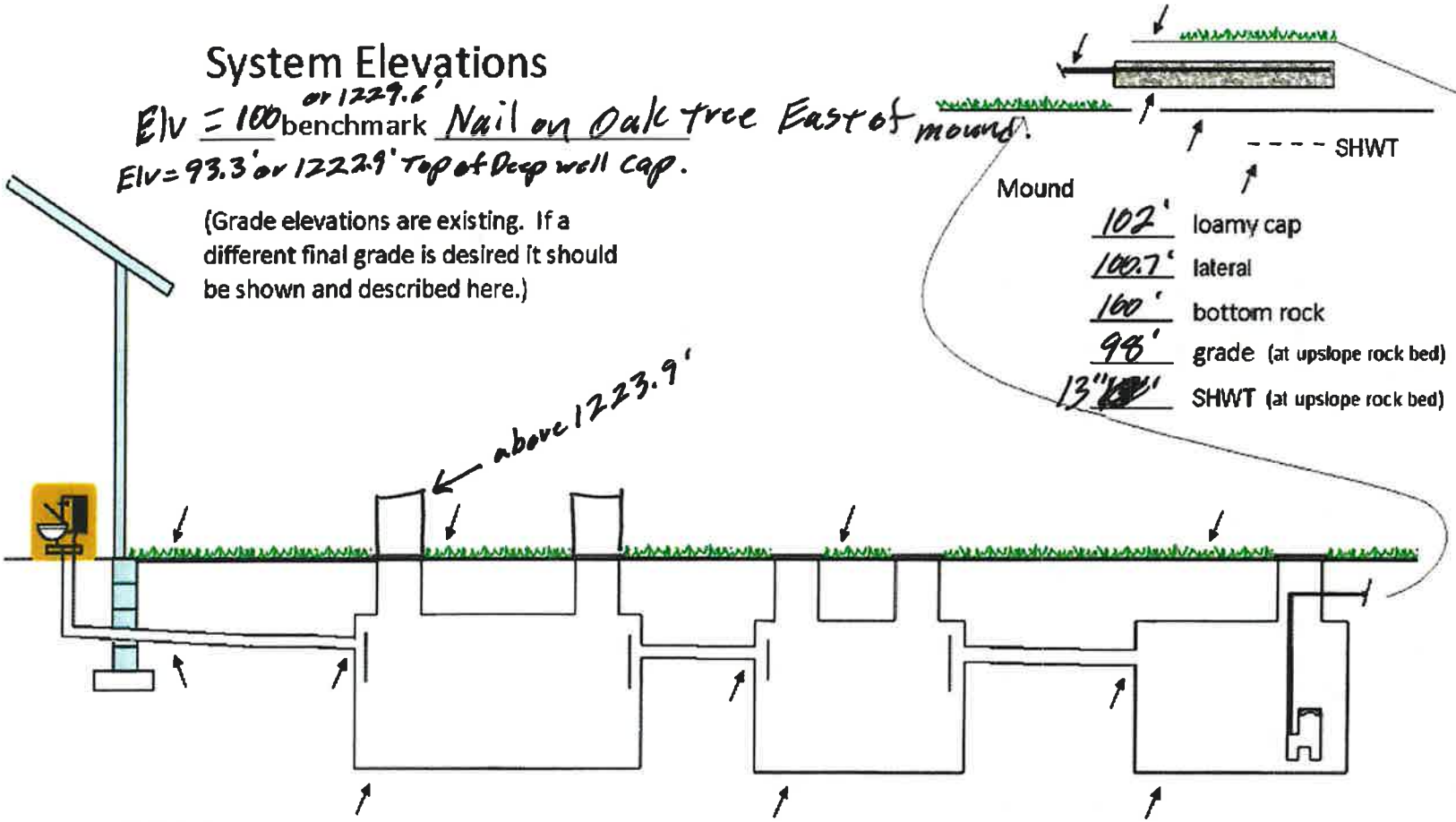
☐ well abandonment form - if necessary

System Elevations

Elv = 100 (or 1229.6') benchmark Nail on Oak tree East of mound.

Elv = 93.3' or 1222.9' Top of Deep well cap.

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Sewer pipe exiting house	Septic Tank	Septic Tank (if applicable)	Pump Tank
91.5' Grade	91.7' Grade 1221.3'	____ Grade	91.7' Grade
91' Pipe	90' inlet	____ inlet	89.8' inlet
	86' Tank bottom	____ Tank bottom	86' Tank bottom

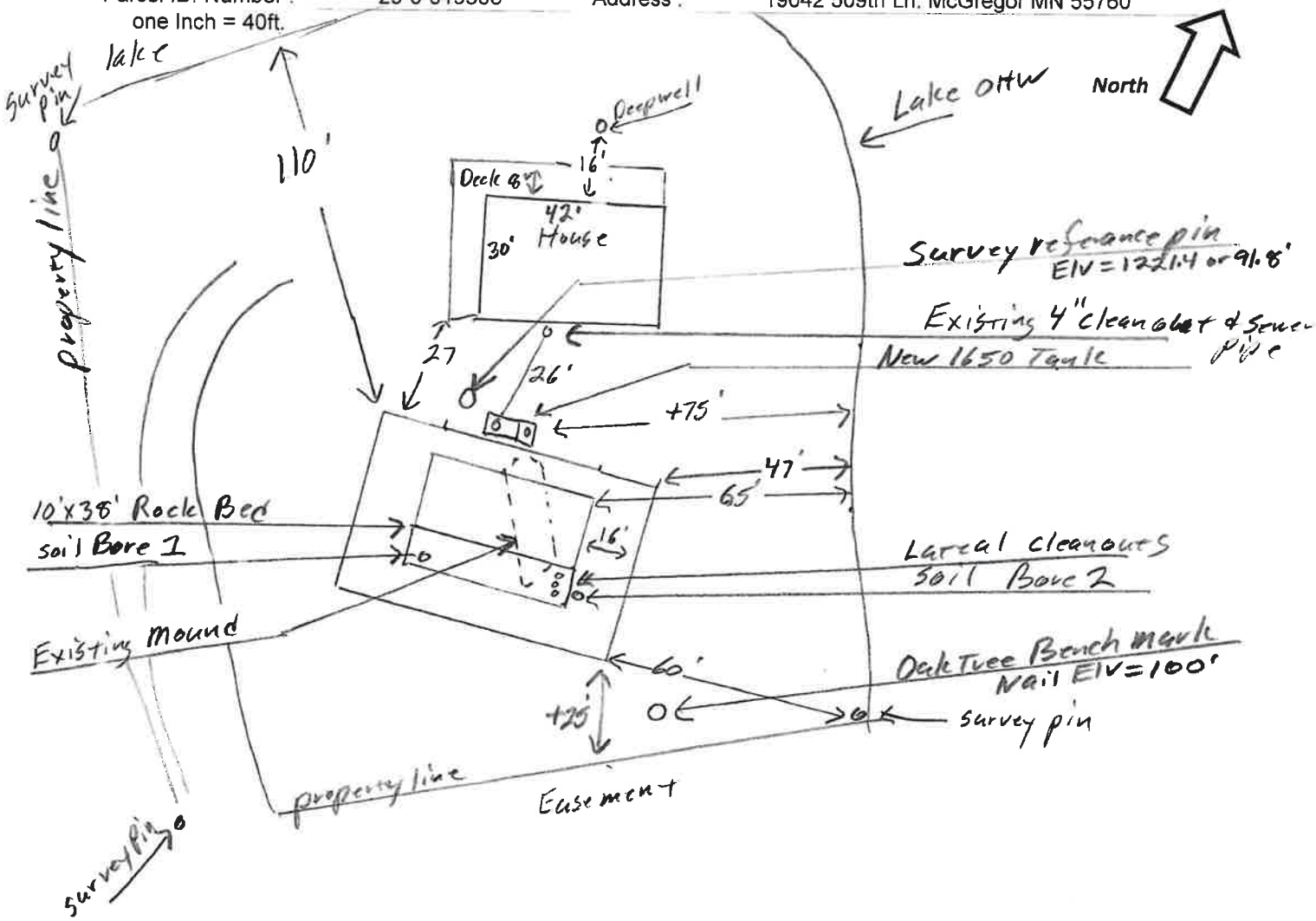
Existing Septic Tank Inlet 90.1' Top of pipe

{ Design Drawing }

Property Owner: Andrew Ankrum Date: 5/22/24 Designer's Initials : JB

Parcel ID. Number : 29-0-019508 Address : 19042 509th Ln. McGregor MN 55760

one Inch = 40ft.



Deep well Grade Elv.= 92' Top of Deep Well Cap Elv.= 93.3' or 1222.9' Approx. bottom of main floor Elv.= 1225'

Survey Reference pin in Yard Elv.= 91.8' or 1221.4' Big Sandy Lake Elv.= 87.3' or 1216.9' on 5/22/2024

	Surface/ SHWT	*Nail on Oak Tree = Bench Mark 100'*			Existing Grade
Soil Bore 1	97.7' / 13"	Bench Mark	100'	or 1229.6'	Upslope Edge of Rockbed Elv.= 98' or 1227.6'
Soil Bore 2	97.8' / 18"	Ground Elv. BM	97.9'		Bottom of Rockbed Elv.= 100'
Soil Bore 3		Ground Elv. Tank	91.7'	1221.3'	Top of Washed Sand Elv.= 100'
	Ground at	Existing house	91.5'	Clean-out	Existing Septic Tank In-let Elv.= 90.1'

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

Mound Design Notes - Aitkin county

Property Owner: Andrew Ankrum **Date:** 5/22/24

Site Address: 19042 509th Ln. McGregor MN 55760 **PID:** 29-0-019508

Comments: ***Mound design may not follow Aitkin co. Auto fill form for mound design.***

1 This is a type III mound , (Soil Separation 13", disturbed soils) sized for a 3 bedroom system.
Owner will need a variance for lake setback to the absorption area of the mound,
Designer measured 65 ft from NE corner of the absorption area, Recommend a 60 ft setback variance
Tank will be located in 100 Yr. Flood area. Elv.= 1223.9' . Bottom of main floor of hose approx. Elv.= 1225'
In the event of a flood all electrical power to the mound must be disconnected until tank is pumped.

2 Existing Deep well location is on the North side of the house. Top of Deep Well Cap Elv.= 93.3' or 1222.9'

3 Existing tank to be pumped, collapsed, removed. Existing mound to be removed to original soils.
This new mound will be across the same location as existing mound, benched against the hill.

4 The house is gravity flow from South side of house, Reuse existing clean-out and sewer pipe.

5 Install new 1650 Jacobson 2/compartment tank for gravity flow from house.
Existing tank location will be close to new tank location. If possible cover tank with 2 ft of cover soil
try to incorporate it into mound berm and raise manholes and inspection pipes to above flood Elv. = 94.3' or 1223.9'
(If tank is ever flooded it must be pumped before power is returned to mound pump, tank gets silt in it)
Install tank low enough for drainback from mound to pump tank.
Recommend Installing an effluent filter in septic tank outlet. Install alarm on Effluent filter. Insulate tank tops.

6 The berm slopes are at 3:1. Mound is on contour.

7 Elevation contour of rock bed upslope edge is 98' . SE berm corner will be approx. 25ft. from South property line.
The area size of the rock bed is 10' x 25' . Absorption area is 25' x 32. NE Absorption area corner approx. 65 ft to lake.
Sand absorption area is 5 ft. up slope + 10 ft. rockbed + 17 downslope = approx. 32 ft. wide sand base.
Berms are 9ft. Upslope, 24ft. Down slope, 10ft. Rock bed = approx. 43ft. Wide.
Overall mound size is approx. 43' wide x 70' long and approx. 4' high. End berms are 16ft. Wide.

8 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.
The top of the sand and bottom of rock bed is Elv. 100'.

9 It is important that the soils do not get compacted, and that clean Washed sand is used.

10 The Jacobson 1650 tank will be gravity flow from dwelling. Install the pump for 7 demand doses
per day. approx. 69 gallons per dose, 5.4 inches of tank level. Install alarm at 3 inches from pump on level.
Install all manholes, inspection pipes and clean-outs to grade or above. (Recommend min. 4" above grade)
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 1/4" perf holes spaced 3 ft. on center.**
Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.

12 Install Event counter on Effluent pump, calibrate pump and give gallons per event to Owner.

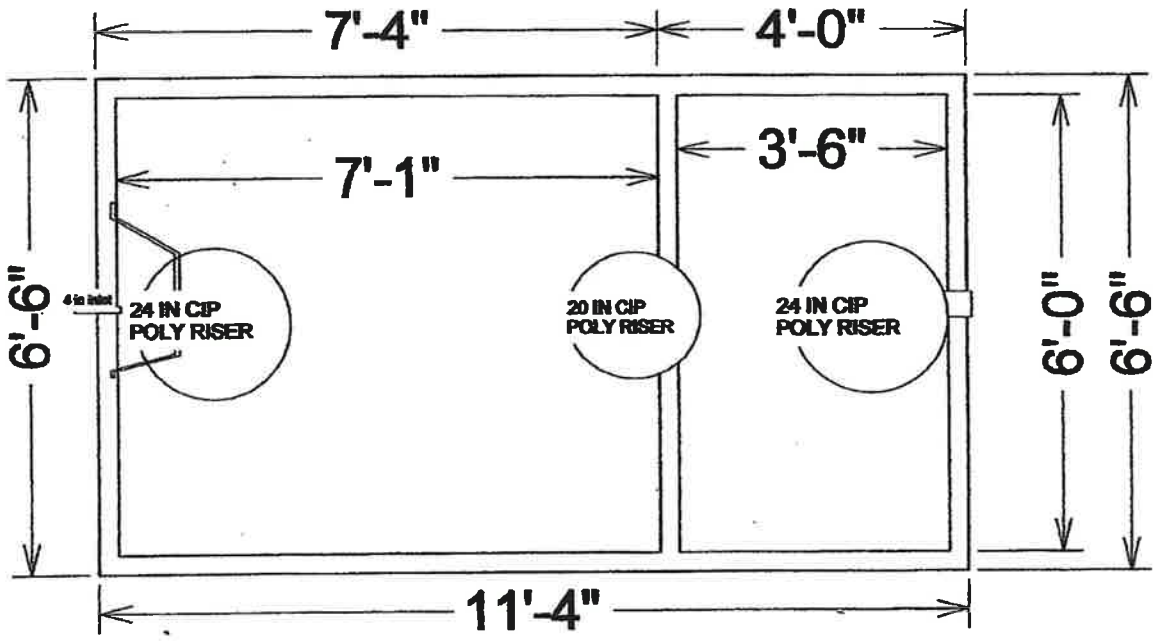
13 Designer does not guarantee or warranty any Type III systems.
Designed to Aitkin Co. and MPCA recommendations and requirements.

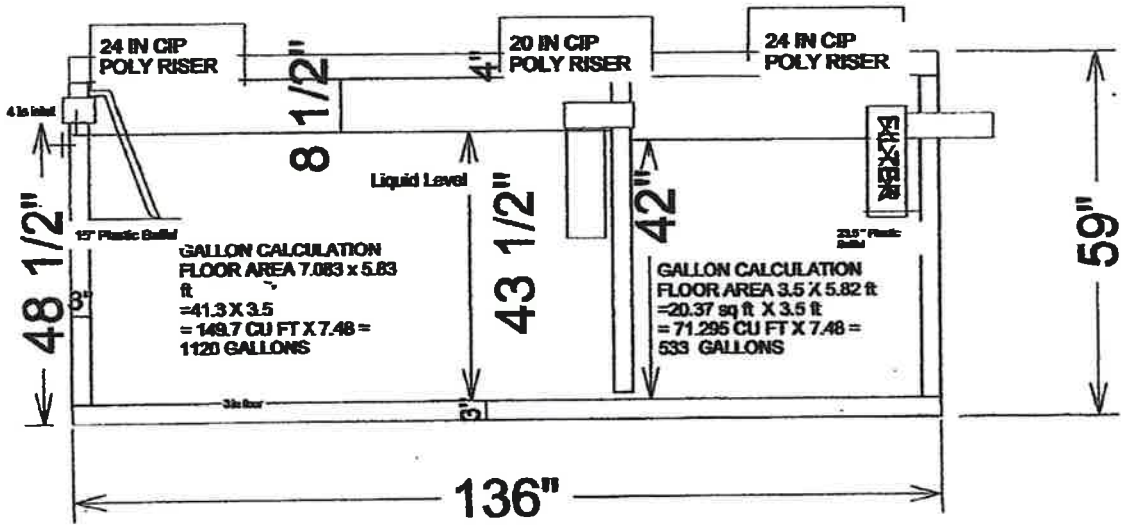
Designer Signature | Brummer Septic LLC. (Design Company) | L-1347 (License#)

This System will require an Aitkin Co. Operator permit, annual inspection
Owner and installer are responsible for owner knowing how system is maintained.

1650 Gallon 2 Compartment Septic Tank

TOP VIEW





SIDE VIEW

533 / 42" = 12.69 GPI

Minnesota Department of Health

Minnesota Well Index

General Information

Unique Well ID:	**598854**	*Well Name:*	**WILSON, ANDY**	*County:*	**Aitkin**	*Aquifer:*	**Quat. buried artes. aquifer**
Well Elevation (msl in foot):	**1224**	*Drilled Depth (ft):*	**64**	*Well Completed (ft):*	**64**	*Date Drilled:*	**06/16/1997**
Township:	**49**	*Range:*	**23**	*Dir:*	**W**	*Section:*	**9**
Subsection:	**AAADCB**	*Use:*	**domestic**	*Well Status:*	**Active**	*Depth To Bedrock:*	
Driller:	**Northland Well Co.**	*Entry Date:*	**11/10/1997**	*Update Date:*	**12/14/2017**		

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**

Description	*From(ft)*	*To(ft)*	*Color*	*Hardness*	*Lith Primary*	*Lith Secondary*	*Interpretation*
SAND	0	8	BROWN	SOFT	SAND		sand-brown
CLAY	8	15	GRAY	MEDIUM	CLAY		clay-gray
SANDY CLAY	15	49	GRAY	SOFT	CLAY		clay+sand-gray
SAND	49	64	GRAY	SOFT	SAND		sand-gray

Detailed Parcel Report

Parcel Number: 29-0-019508

General Information

House

Township/City:	SHAMROCK TWP		
Taxpayer Name:	ANKRUM, ANDREW & KRISTINA		
Taxpayer Address:	2216 THELL RD WRENSHALL MN 55797		
Property Address:	19042 509th Ln		
Township:	49	**Lake Number:**	1006200
Range:	23	**Lake Name:**	BIG SANDY LAKE
Section:	9	**Acres:**	0.42
Green Acres:	No	**School District:**	4.00
Plat:			
Brief Legal Description:	.42 AC IN LOT 1 AS IN DOC 268622 AND 1/8 INT IN TRACT I AS DESCRIBED IN DOC 403325		

Tax Information

Class Code 1:	Non-Comm Seasonal Residential Recreational
Class Code 2:	Unclassified
Class Code 3:	Unclassified
Homestead:	Non Homestead
Assessment Year:	2024

Estimated Land Value:	$231,400.00
Estimated Building Value:	$136,600.00
Estimated Total Value:	$368,000.00
Prior Year Total Taxable Value:	$418,000.00
Current Year Net Tax (Specials Not Included):	$2,520.00
Total Special Assessments:	$0.00
****Current Year Balance Not Including Penalty:**	$2,520.00
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.**

Detailed Parcel Report

Parcel Number: 29-0-019509

General Information

West lot.

Township/City:	SHAMROCK TWP		
Taxpayer Name:	ANKRUM, ANDREW & KRISTINA		
Taxpayer Address:	2216 THELL RD WRENSHALL MN 55797		
Property Address:	19046 509TH LN		
Township:	49	**Lake Number:**	1006200
Range:	23	**Lake Name:**	BIG SANDY LAKE
Section:	9	**Acres:**	0.52
Green Acres:	No	**School District:**	4.00
Plat:			
Brief Legal Description:	.52 AC IN LOT 1 AS IN DOC 377015 AND 1/8 INT IN TRACT I AS DESCRIBED IN DOC 403325		

Tax Information

Class Code 1:	Non-Comm Seasonal Residential Recreational
Class Code 2:	Unclassified
Class Code 3:	Unclassified
Homestead:	Non Homestead
Assessment Year:	2024

Estimated Land Value:	$205,700.00
Estimated Building Value:	$3,100.00
Estimated Total Value:	$208,800.00
Prior Year Total Taxable Value:	$252,800.00
Current Year Net Tax (Specials Not Included):	$1,504.00
Total Special Assessments:	$0.00
****Current Year Balance Not Including Penalty:**	$1,504.00
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.**

Detailed Parcel Report

Parcel Number: 29-0-023000

General Information

sliver lot.

Township/City:	SHAMROCK TWP		
Taxpayer Name:	ANKRUM, ANDREW & KRISTINA		
Taxpayer Address:	2216 THELL RD WRENSHALL MN 55797		
Property Address:			
Township:	49	**Lake Number:**	1999000
Range:	23	**Lake Name:**	PRAIRIE RIVER - BACK LOT
Section:	10	**Acres:**	0.07
Green Acres:	No	**School District:**	4.00
Plat:			
Brief Legal Description:	.07 AC IN NW-NW AS IN DOC 268622		

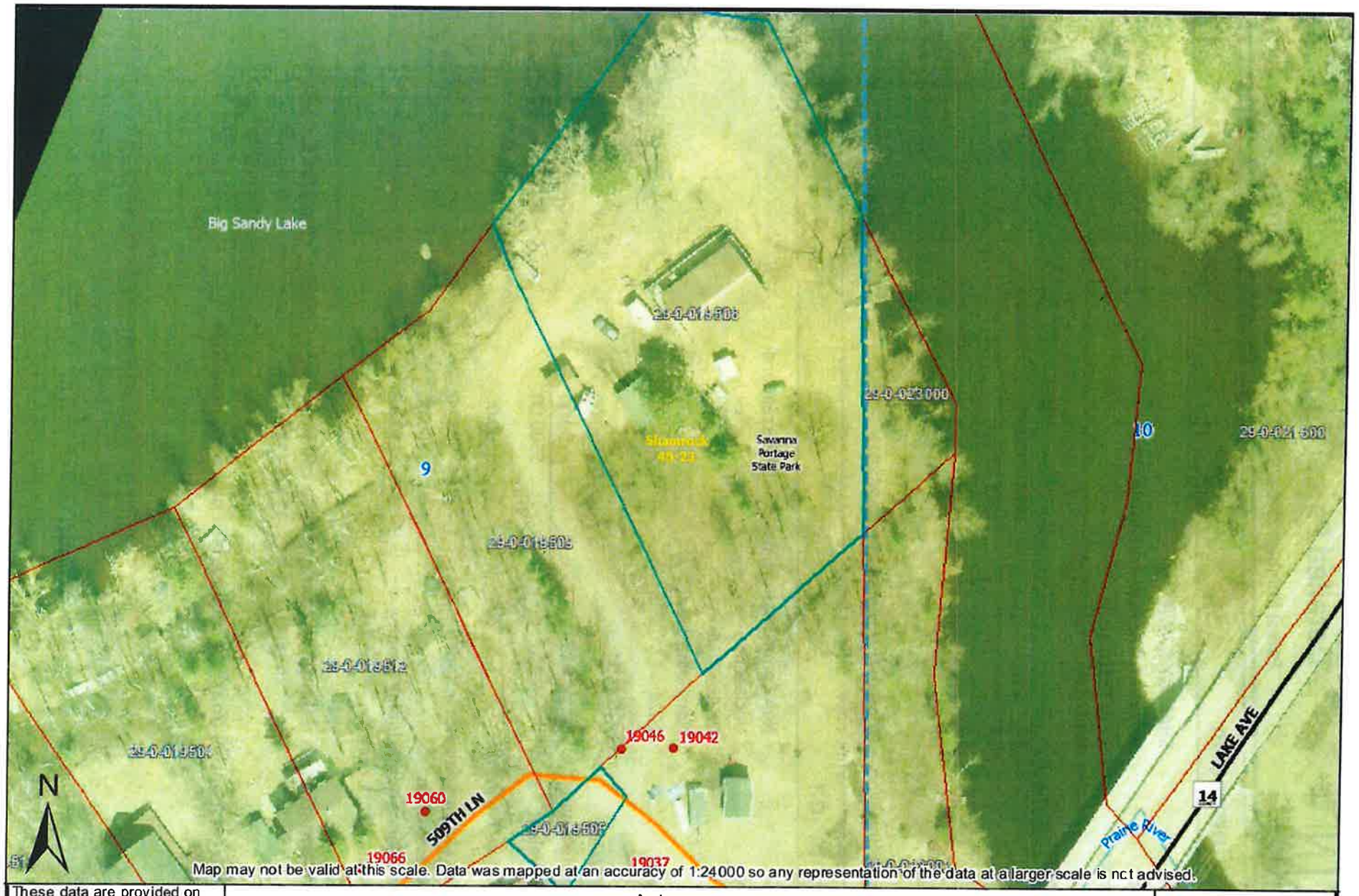
Tax Information

Class Code 1:	Non-Comm Seasonal Residential Recreational
Class Code 2:	Unclassified
Class Code 3:	Unclassified
Homestead:	Non Homestead
Assessment Year:	2024

Estimated Land Value:	$500.00
Estimated Building Value:	$0.00
Estimated Total Value:	$500.00
Prior Year Total Taxable Value:	$500.00
Current Year Net Tax (Specials Not Included):	$2.00
Total Special Assessments:	$0.00
****Current Year Balance Not Including Penalty:**	$2.00
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.**



Ankrum

1:1,128 | 0 0.005 0.01 mi | 1 inch = 94 feet

Web AppBuilder for ArcGIS

Aitkin County

Date: 4/24/2024

Soil Map—Aitkin County, Minnesota
(Ankrum)

Map Scale: 1:1,500 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

Aitkin County, Minnesota

454E—Mahtomedi loamy coarse sand, 12 to 25 percent slopes

Map Unit Setting

National map unit symbol: gjgy
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

Mahtomedi and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mahtomedi

Setting

Landform: Outwash plains
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 1 inches: loamy coarse sand
E - 1 to 14 inches: loamy coarse sand
Bw - 14 to 25 inches: gravelly sand
C - 25 to 60 inches: gravelly sand

Properties and qualities

Slope: 12 to 25 percent
Depth to restrictive feature: More than 80 inches
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 content: 15 percent
Available water supply, 0 to 60 inches: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: F090AY019WI - Dry Sandy Uplands

Forage suitability group: Steep; Coarse Testure; Low AWC (G090AN018MN)
Other vegetative classification: Steep; Coarse Testure; Low AWC (G090AN018MN)
Hydric soil rating: No

Minor Components

Soils with more gravel
Percent of map unit: 2 percent
Hydric soil rating: No

Soils with less gravel
Percent of map unit: 2 percent
Hydric soil rating: No

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

Meehan
Percent of map unit: 2 percent
Hydric soil rating: No

Newson
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 24, Sep 9, 2023