Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

Owner Information

Date	9/4/2019	Sec / Twp / Rng	S-31, T-47, R-27
Parcel ID	01-1-168700	LUG (county, city, township)	Aitkin Co.
Property Owner:	Sandy Blackledge	Owners address (if different)	
Property Address:	34908 455th PL. Aitkin Mn 56431		
City / State / Zip:			

Flow Information and Waste Type / Strength

Estimated Design flow 450

Comments: Type III mound
Will Require Aitkin Co Operating Permit

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) By Others	☑ 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: Remove existing mound, construct new bigger mound in approx. same location

Soil Information

Original soils	☐ Yes	☑ No	Evidence of site: Cut	☐ Yes ☑ No
			Filled	☑ Yes ☐ No
			Compacted	☐ Yes ☑ No
			Disturbed	☑ 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	See Notes		Flooding or run-on potential (comments)	☐ Yes ☑ No
Depth to system bottom maximum (or elev minimum)	(+30")			
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)	
Soil Survey information determined (see attachment)	☑ Yes	☐ No	Floodplain designation and elev - 100 yr/10 yr (if applicable)	
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 #

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Sandy Blackledge Date 9/4/2019

Property Address / PID: 34908 455th PL. Aitkin Mn 56431

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: 1353B & 625 slope 2 % direction- North

Soil Log #1

☑ Boring ☐ Pit Elevation 985 Depth to SHWT 18" Elv.=97'

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		Friable	Loose	Granular
18 - 20	Sandy Loam	<35	10YR5/4	7.5YR5/6	Friable	Loose	Granular
		<35			Loose	Loose	Granular
		<35			Loose	Loose	Granular

Comments:

34908 455th PL. Aitkin Mn 56431 **Soil Log #2 West End of Existing Mound**

☑ Boring ☐ Pit Elevation 98.2' Depth to SHWT 18" Elv.=96.7'

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 3	Topsoil Sandy Laom	<35	10YR3/2		Loose	Loose	Granular
3 - 10	Sandy Loam	<35	10YR4/4		Loose	Loose	Granular
10 - 12	Topsoil Sandy Laom	<35	10YR3/2		Loose	Loose	Granular
12 - 18	Sandy Loam	<35	10YR4/3		Friable	Loose	Granular
18	Sandy Loam	<35	10YR4/3	7.5YR5/6	Friable	Loose	Granular

34908 455th PL. Aitkin Mn 56431 **Soil Log #3**

☑ Boring ☐ Pit Elevation 97.1' Depth to SHWT 11" Elv=96.2

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 11	Sandy Loam	<35	10YR4/3		Friable	Loose	Granular
11 - 13	Sandy Loam	<35	10YR4/4	7.5YR5/6	Friable	Loose	Granular
		<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 #

34908 455th PL. Aitkin Mn 56431			**Soil Log #4**				
	☑ Boring	☐ Pit	Elevation 97.2'		Depth to SHWT	10" Elv.= 96.4'	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 8	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
8 - 10	Loam	<35	10YR5/4		Friable	Loose	Granular
10 - 14	Loam	<35	10YR5/4	7.5YR5/6	Friable	Loose	Granular
		<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

34908 455th PL. Aitkin Mn 56431			**Soil Log #5**				
	☐ 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 #)

2011 purple code

Mound Design - Aitkin county

www.SepticResource.com (vers 15.2)

Property Owner: Sandy Blackledge **Date:** 9/4/2019

Site Address: 34908 455th PL. Aitkin Mn 56431 **PID:** 01-1-168700

Comments: Type III mound Remove Existing and construct bigger one in same place

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

1) [3] bedroom Type [III] Residential System

2) [450] GPD design flow

3) [No] Garbage disposal or pumped to septic Install Jacobson 1650 2/comaprtment tank

4) [1000] Gal Septic tank (code minimum) [1120] Gal Septic tank (design size / LUG req'd)
Tank options: Effluent filter & alarm req'd

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 [37.5] ft rockbed length

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

8) [3] laterals [35.5] feet long [12.0] perfs / lateral [36] 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) [50] feet of [2.0] inch supply line leads to [9] gallons of drainback volume
(Tip: "top feed" manifold to control the drainback)

14) [73] gallons TOTAL pump out volume (treatment + drainback)

15) [12] feet vertical lift from pump to mound laterals, leads to a:

16) [27] GPM @ [19] 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) [5.8] inch swing on Demand float, or timed dosing of [2.7] min ON (confirm pump rate with drawdown
(this delivers Average flow, =70% of Peak design flow) [5.1] hrs OFF test and adjust as necessary)

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

20) [18] inches from bottom of tank to "Pump ON" float, or [12] inches to "Timer ON" float if time dosed

21) [21] inches from bottom of tank to "Hi Level" float, or [31] inches to "Hi Level" float if time dosed

22) [267] gallons reserve capacity (after High Level Alarm is activated)

System will have 2 alarms: 1 for pump and 1 for Effluent filter
System will require an Event counter on the pump control.

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) 2 percent site slope (0-20% range) 2 (% downslope site slope, if different than upslope)

25) 6 inches, or 0.5 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:

26) 30 inch, or 2.5 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

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

28) 0.0 ft. upslope and sideslope sand upslope 9.9
10.0 ft. Downslope sand down slope 16.1

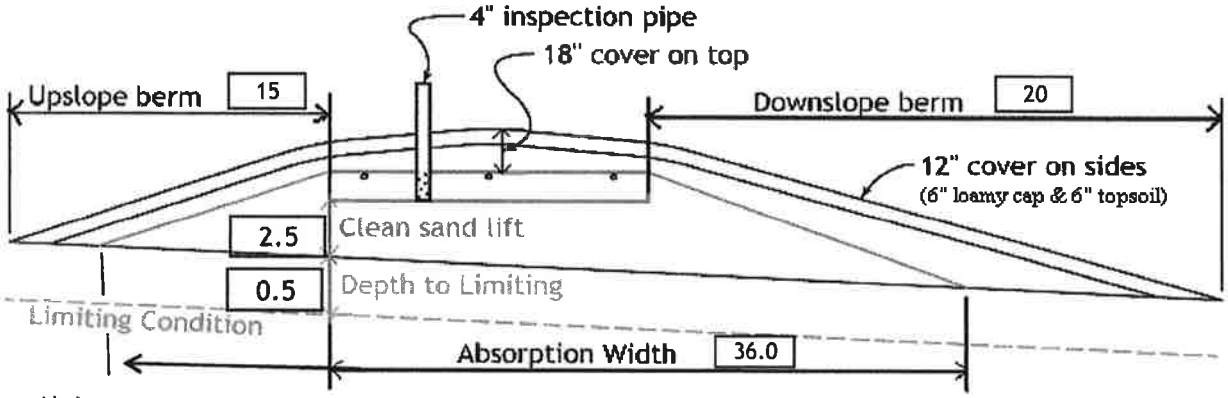
Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) 3:1 upslope ratio 15 ft. upslope berm Use 3.5: 1 Upslope Ratio 15 Ft.

30) 4:1 sideslope 19 ft. sideslope berms

31) 4:1 downslope 20 ft. downslope berm

32) Overall Dimensions: 10.0 ft. wide by 37.5 ft. long Rock bed
45 ft. wide by 76 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 37.5 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)
44.6 up + 74.4 downslope + 20.3 ends + 36.1 under rock = 211 yd³ or *1.4= 295 ton
plus 20%

35) Loamy Cap:
41 ft. by 72 ft. 6" deep, plus 20% gives 66 yd³ or *1.4= 92 ton

36) Topsoil:
45 ft. by 76 ft. 6" deep, plus 20% gives 76 yd³ or *1.4= 106 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	9/4/2019

Installer Summary

1120 gallon Septic tank (minimum)

Tank options: Effluent filter & alarm req'd
Install Jacobson 1650 2/comaprtment tank
at 12.69 gpi

533 gallon Dose tank (minimum)

27 GPM @ 19 ft. of head, Pump required
5.8 inch swing on Demand float which translates to roughly 3.9 inches of float tether length
if time dosing is required --> 2.7 minutes ON time & 5.1 hours OFF time
18 inches from bottom of tank to "pump ON" float, or 12 inches to "timer ON" float
21 inches from bottom of tank to "Hi Level Alarm" or 31 inches to "Hi level alarm" if time dosed

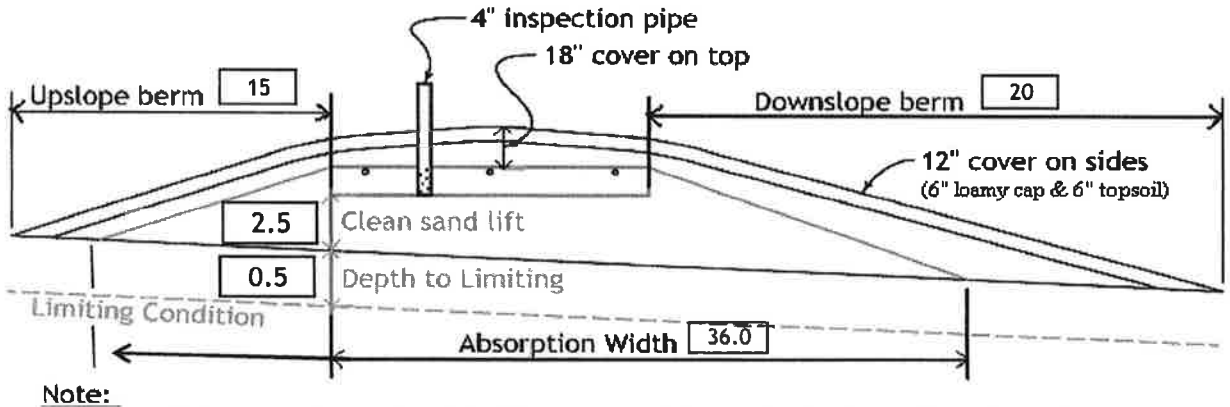
50 ft. of 2.0 inch supply line with end feed manifold connection
(Tip: "top feed" manifold to control drainback)

30 inch, or 2.5 ft. Sand Lift Mound
10.0 ft. wide by 37.5 ft. long Rock bed
3 laterals 1.50 inch diameter 35.5 ft. long 3.0 ft. lateral spacing
1/4" inch perfs 3.0 ft. perforation spacing

Yes Effluent filter & alarm
3 clean out & valve box assemblies

36.0 ft.Total sand ABSORPTION width (minimum)
9.9 ft. upslope and sideslope (sand beyond rockbed, minimum)
16.1 ft. Downslope (sand beyond rockbed, minimum)

Specific slope ratios give BERM widths (topsoil beyond rockbed) of:
3:1 upslope ratio 15 ft. upslope berm
4:1 sideslope 19 ft. sideslope berms
4:1 downslope 20 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:	211	yd^3 or *1.4=	295	ton	calculation based on 3:1/4:1 slope from top of rockbe
Loamy Cap:	66	yd^3 or *1.4=	92	ton	6" deep
Topsoil:	76	yd^3 or *1.4=	106	ton	6" deep

System will have 2 alarms: 1 for pump and 1 for Effluent filter
System will require an Event counter on the pump control.

INSPECTOR CHECKLIST - mound

34908 455th PL. Aitkin Mn 56431

☐ 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_____ 1120 gallons Effluent filter & alarm req'd

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

☐ Yes effluent filter & alarm

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

☐ dose pump _____ 27 gpm 19 head VERIFY PUMP CURVE 2.7 min ON 5.1 hr OFF

☐ float setting drop 5.8 inches at 12.7 gpi "DESIGNED" 3.9 inches approx float tether length
73.0 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 37.5

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

☐ Absorption Sand beyond rock 9.9 upslope 16.1 downslope

☐ Bermed topsoil beyond rockbed 15 upslope 19 sideslope 20 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 will have 2 alarms: 1 for pump and 1 for Effluent filter

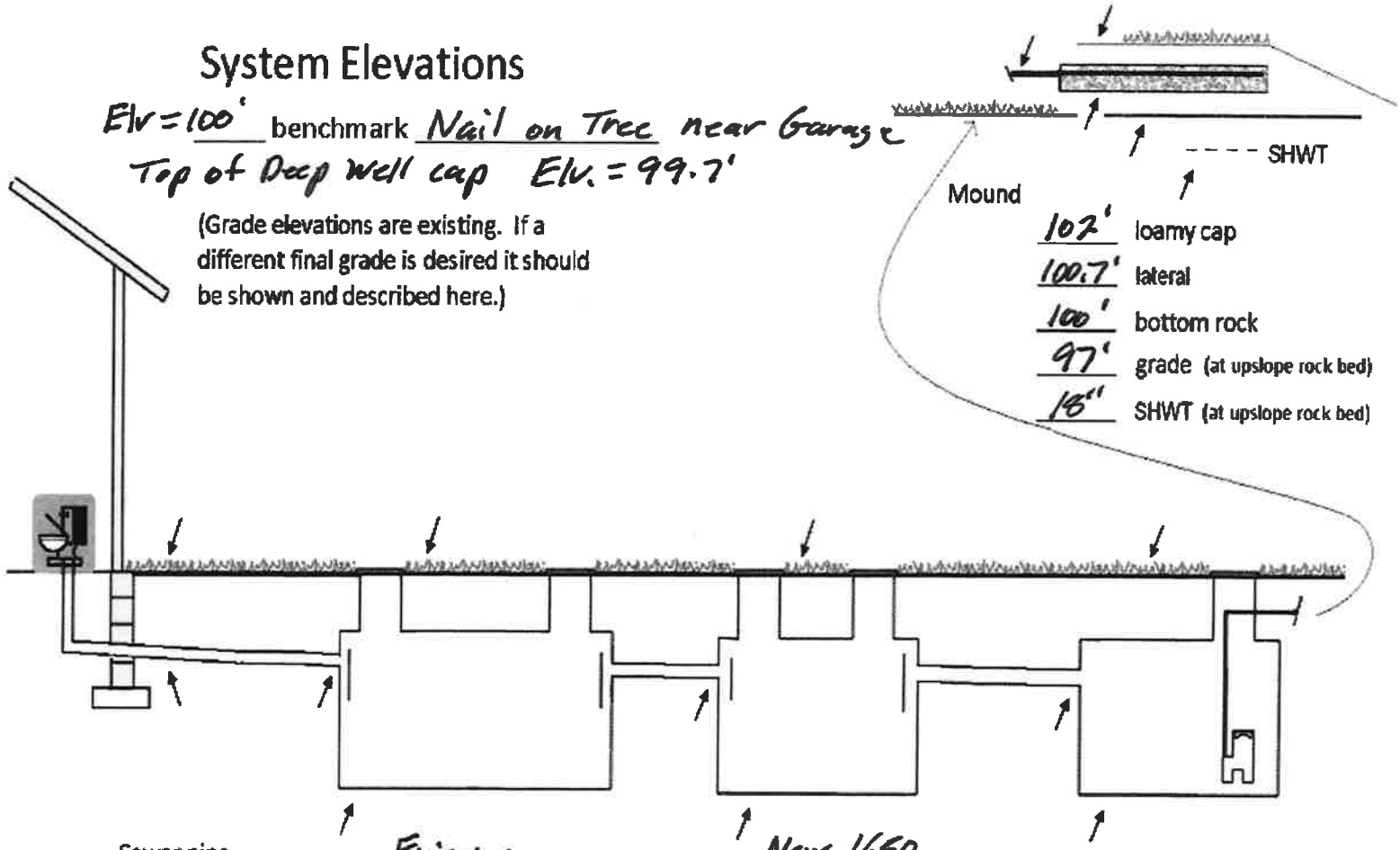
System will require an Event counter on the pump control.

System Elevations

Elv = 100' benchmark Nail on Tree near Garage

Top of Deep well cap Elv. = 99.7'

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

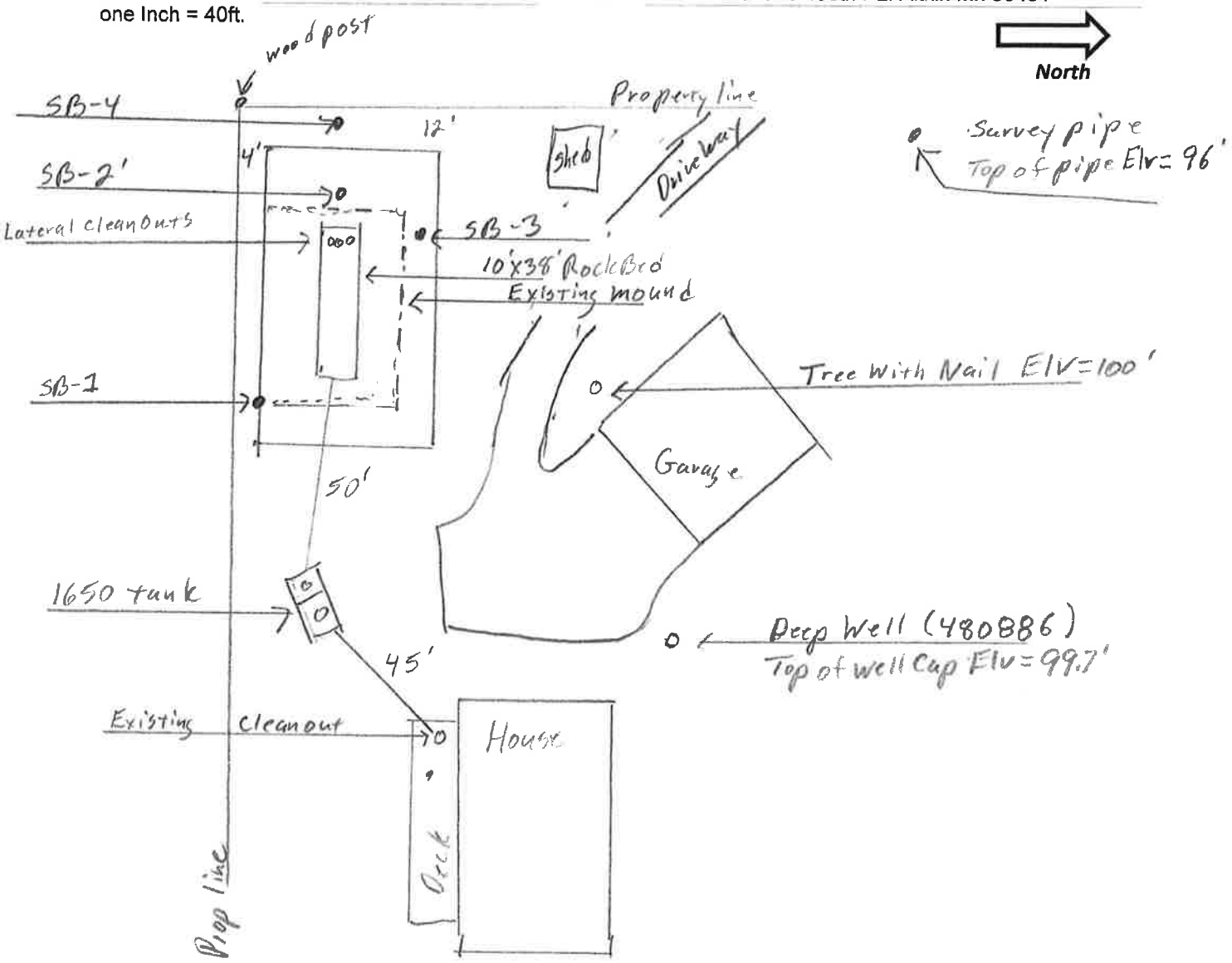


{ Design Drawing }

Property Owner: Sandy Blackledge Date: 9/4/19 Designer's Initials : JB

Parcel ID. Number : 01-1-168700 Address : 34908 455th PL. Aitkin Mn 56431

one Inch = 40ft.



	Surface/ SHWT	Nail on Tree = Bench Mark 100'			Grade	
Soil Bore 1	98.5'/97'	Bench Mark	100'			
Soil Bore 2	98.2'/96.7'	Top of deep well Cap Elv.=		99.7'	Bottom of Rock	100'
Soil Bore 3	97.1/96.2'	Ground Elv. Tank	98.6'		Top of Washed Sand Elv.=100'	
Soil Bore 3	97.2'/96.4'	SW house	99.3'		Existing tank inlet Elv.= 96.3'	

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: Sandy Blackledge **Date:** 9/4/19

Site Address: 34908 455th PL. Aitkin Mn 56431 **PID:** 01-1-168700

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

1 **This is a type III mound , (Constructed on fill) sized for a 3 bedroom system.**
This system will require an Atikin Co. Operating permit, event counter, effluent filter, 2 electric alarms.

2 Existing deep well location is +80ft. From septic tank and mound.

3 Existing tank to be pumped, collapsed, filled or removed. Install new tank close to same location.
Existing mound to be removed and construct a new bigger, higher mound in approx. same location.

4 Designer did 4 soil borings around and through existing mound to come up with elevation of the rockbed.
Based on SB-1 mottles at Elv.= 97' or 18" of sand, But based on the Elv. Off the West end of the mound it will take approx. 30" of sand. Designer use 30" for the Berm Calculations.
The mound is designed with a 3.5:1 ratio upslope (15ft.), and 4:1 down and end slopes.

5 Install 1650 Jacobson compartment tank low enough for drainback from mound and tie into existing pipe.

6 Install effluent filter in septic tank outlet. Install alarm on Effluent filter. Insulate tank tops.

7 Elevation contour of rock bed upslope edge is 97' . South berm will be approx. 4 ft. from property line.
The area size of the rock bed is 10' x 38' . Absorption area is 38' x 36'.
Sand absorption area is 9.9 ft. up slope + 10 ft. rockbed + 16.1 downslope = approx. 36 ft. wide sand base.
Berms are 15ft. Upslope, 20ft. Down slope, 10ft. Rock bed = approx. 45ft. Wide.
Overall mound size is approx. 45' wide x 76' long and approx. 4.5' high. End Berms are 19 ft.

8 The bench mark is the nail on the tree near garage, 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. 73 gallons per dose, 5.8 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 clean-outs at far end of laterals.
Drill 1/4" perf holes spaced 3 ft. on center.
Install inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.

11 Installer will pressure test and squirt height laterals when finished.

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#

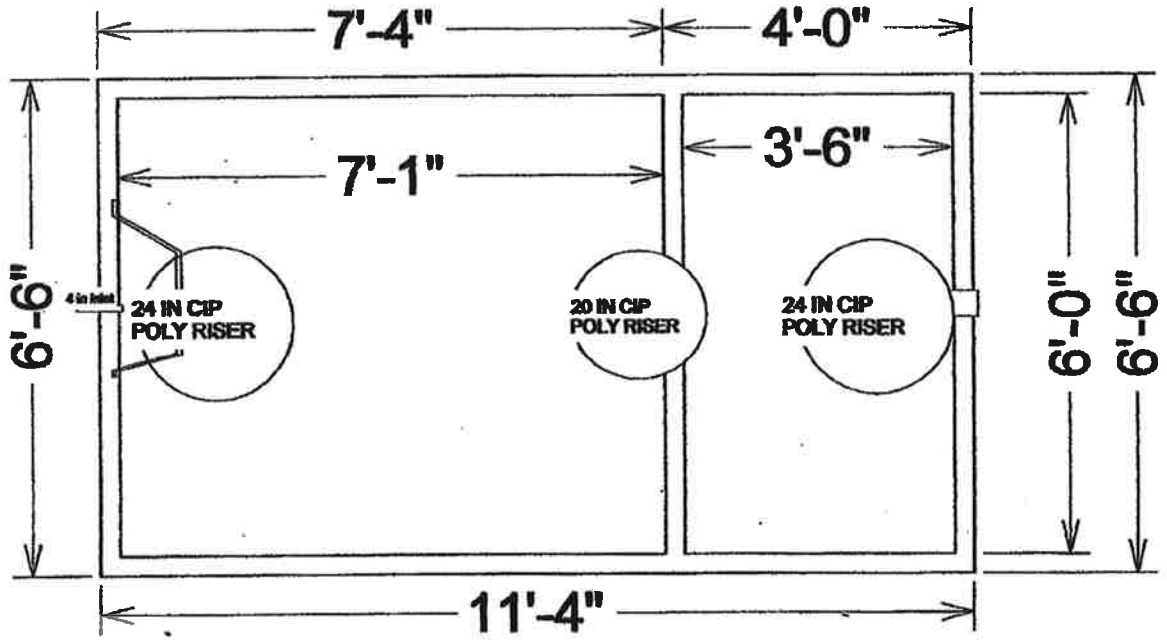
System will have 2 alarms: 1 for pump and 1 for Effluent filter

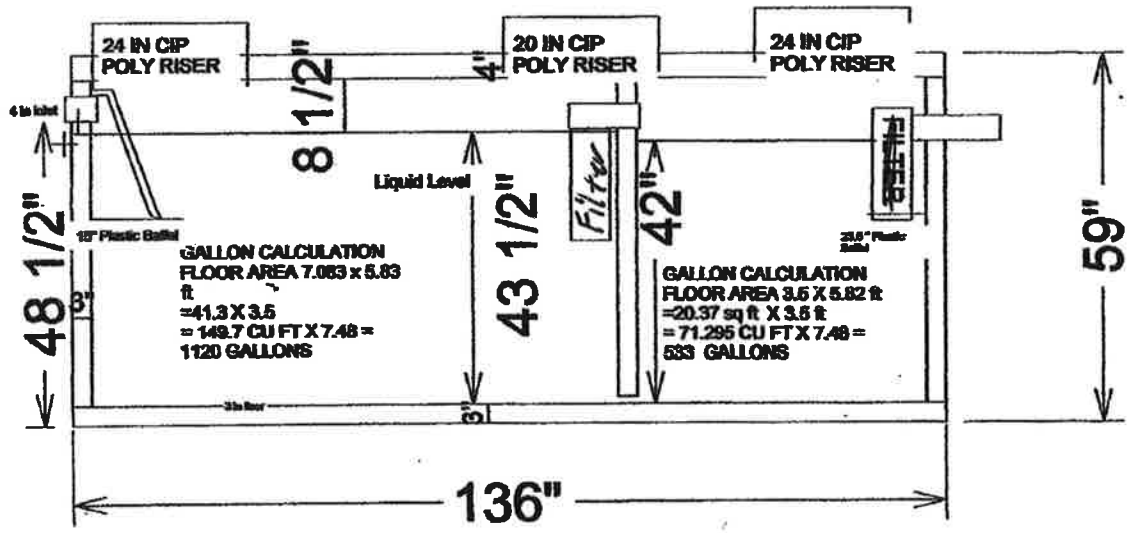
System will require an Event counter on the pump control.

System will Require Aitkin Co. Operator Permit

1650 Gallon 2 Compartment Septic Tank

TOP VIEW





SIDE VIEW

533 / 42" = 12.69 GPI

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

Minnesota Department of Health

Minnesota Well Index

General Information

Unique Well ID:	**480886**	*Well Name:*	**BLACKLEDGE, JERRY**	*County:*	**Aitkin**	*Aquifer:*	**Quat. buried artes. aquifer**
Well Elevation (msl in feet):	**1229**	*Drilled Depth (ft):*	**110**	*Well Completed (ft):*	**110**	*Date Drilled:*	**04/28/1992**
Township:	**47**	*Range:*	**27**	*Dir:*	**W**	*Section:*	**31**
Subsection:	**ABCDDB**	*Use:*	**domestic**	*Well Status:*	**Active**	*Depth To Bedrock:*	
Driller:	**Hasskamp Bros. Well**	*Entry Date:*	**03/05/1993**	*Update Date:*	**10/06/2017**		

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*
SANDY LOAM	0	7	RED	MEDIUM	LOAM		cly/snd/slt-no peb.-red
CLAY	7	38	BROWN	HARD	CLAY		clay-brown
SAND	38	47	BROWN	MEDIUM	SAND		sand-brown
CLAY & ROCKS	47	66	GRAY	HARD	CLAY		pebbly sand/slit/clay-gray
SAND	66	68	RED	MEDIUM	SAND		sand-red
ROCKS & CLAY	68	102	RED	HARD	COBL		pebbly sand/silt/clay-red
SAND	102	110	BROWN	MEDIUM	SAND		sand-brown

Aitkin County

Detailed Parcel Report

Parcel Number: 01-1-168700

General Information

Township/City:	AITKIN TWP		
Taxpayer Name:	BLACKLEDGE, G A & S J		
Taxpayer Address:	34908 455TH PLACE AITKIN MN 56431		
Property Address:	34908 455th Pl		
Township:	47	**Lake Number:**	1020900
Range:	27	**Lake Name:**	CEDAR LAKE (AITKIN/FI TWPS)
Section:	31	**Acres:**	0.00
Green Acres:	No	**School District:**	1.00
Plat:	EDGEWATER BAY		
Brief Legal Description:	LOT 4 BLK 2 & UND 1/19 INT IN OUTLOT B		

Tax Information

Class Code 1:	Residential 1-3 units Previously SRR
Class Code 2:	Unclassified
Class Code 3:	Unclassified
Homestead:	Owner Homestead
Assessment Year:	2019

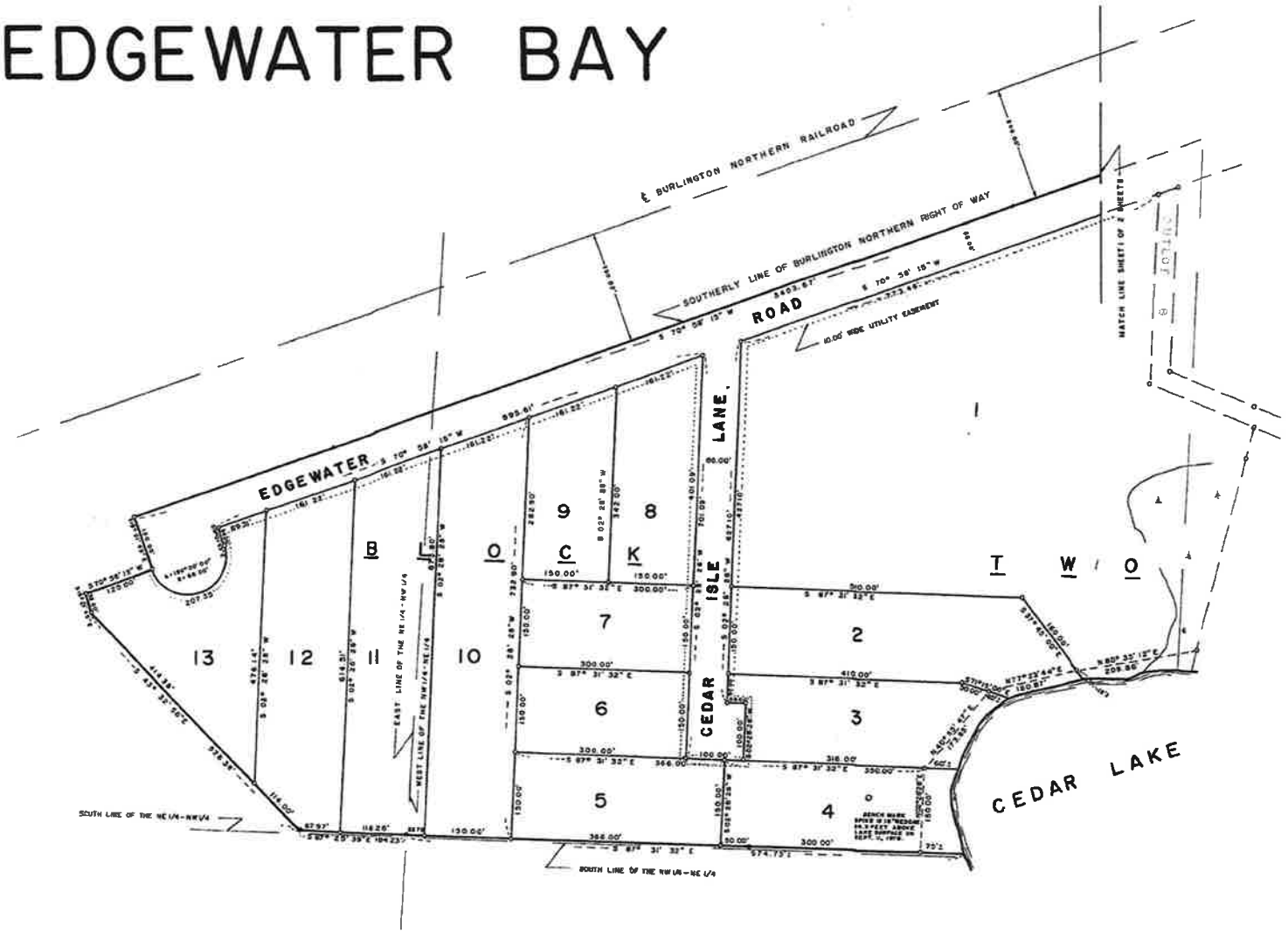
Estimated Land Value:	$153,800.00
Estimated Building Value:	$222,500.00
Estimated Total Value:	$376,300.00
Prior Year Total Taxable Value:	$37,000.00
Current Year Net Tax (Specials Not Included):	$130.00
Total Special Assessments:	$0.00
****Current Year Balance Not Including Penalty:**	$65.00
Delinquent 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.**

ORIGINAL

EDGEWATER BAY



BEARING DATUM ASSUMED

SCALE: 1 INCH = 100 FEET

⊕ IRON MONUMENT FOUND

○ IRON MONUMENT ESTABLISHED

TOTAL AREA = 55.6 ACRES, MORE OR LESS

SHEET 2 OF 2 SHEETS

Search

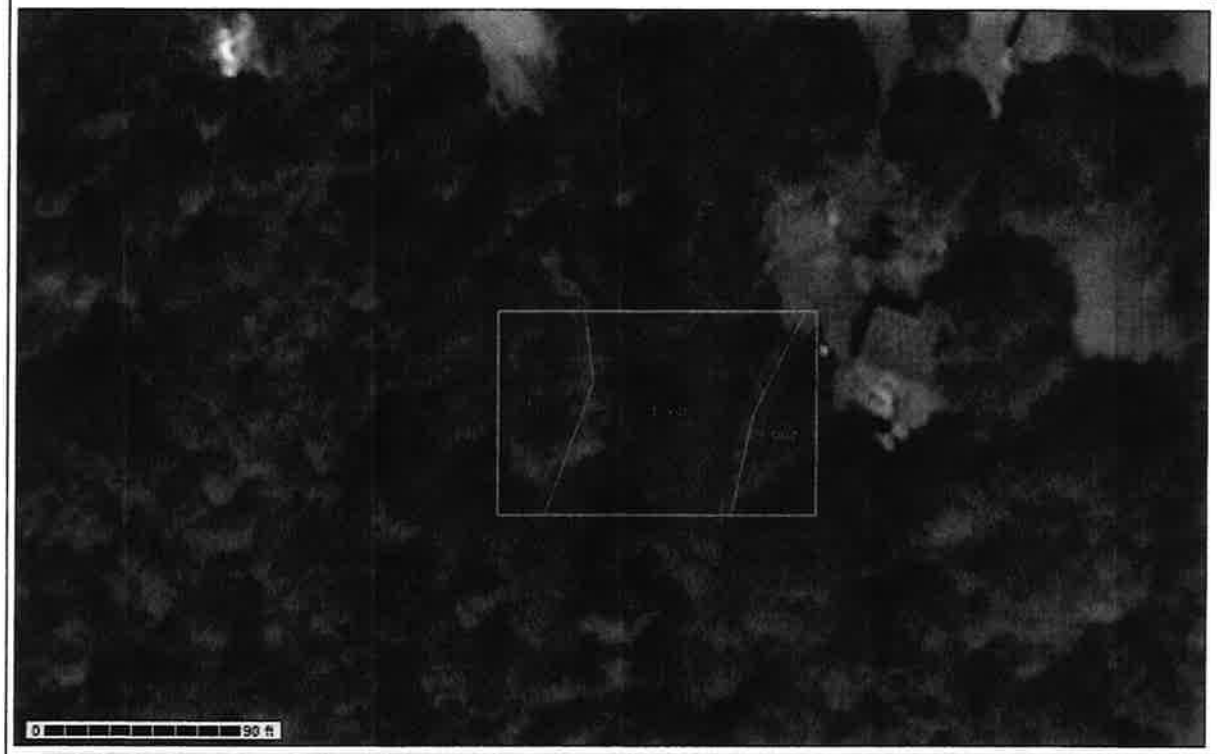
Map Unit Legend

Aitkin County, Minnesota (MN001)

Aitkin County, Minnesota (MN001)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
504E	Duluth fine sandy loam, 12 to 25 percent slopes	0.1	17.5%
625	Sandwick loamy sand	0.1	24.2%
1353B	Cutaway loamy fine sand, 1 to 6 percent slopes	0.2	58.3%
Totals for Area of Interest		**0.3**	**100.0%**

Soil Map



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.

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

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): Backslope, summit
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
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 41 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Available water storage in profile: 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)
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 19, Sep 12, 2018

Aitkin County, Minnesota

625—Sandwick loamy sand

Map Unit Setting

National map unit symbol: gjj4
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: Not prime farmland

Map Unit Composition

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

Description of Sandwick

Setting

Landform: Swales on moraines
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Sandy outwash over loamy till

Typical profile

E - 0 to 6 inches: loamy sand
Bw,E' - 6 to 34 inches: sand
2E/B,2Btg - 34 to 55 inches: loam
2Cg - 55 to 60 inches: loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 6 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Available water storage in profile: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Forage suitability group: Level Swale, Low AWC, Acid (G088XN007MN)
Hydric soil rating: Yes

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

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

Northwood and similar soils
Percent of map unit: 3 percent
Landform: Depressions
Hydric soil rating: Yes

Stuntz 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 19, Sep 12, 2018

Aitkin County, Minnesota

504E—Duluth fine sandy loam, 12 to 25 percent slopes

Map Unit Setting

National map unit symbol: gjh9
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

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

Description of Duluth

Setting

Landform: Moraines
Landform position (two-dimensional): Shoulder, backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

A - 0 to 3 inches: fine sandy loam
E,Bw.2BE,2Bt - 3 to 37 inches: clay loam
2C - 37 to 60 inches: loam

Properties and qualities

Slope: 12 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 low to moderately high (0.06 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: 5 percent
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Forage suitability group: Steep; Fine Texture (G090AN017MN)
Hydric soil rating: No

Minor Components

Blackhoof and similar soils
Percent of map unit: 3 percent
Landform: Depressions
Hydric soil rating: Yes

Mahtowa and similar soils
Percent of map unit: 3 percent
Landform: Depressions
Hydric soil rating: Yes

Rifle and similar soils
Percent of map unit: 3 percent
Landform: Bogs
Hydric soil rating: Yes

Cromwell and similar soils
Percent of map unit: 2 percent
Hydric soil rating: No

Dusler and similar soils
Percent of map unit: 2 percent
Hydric soil rating: No

Cutaway and similar soils
Percent of map unit: 2 percent
Hydric soil rating: No

Data Source Information

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