Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

			Own	er Information		
Date 6	6/21/2022			Sec / Twp / Rng	S-16, T-47, R	25
Parcel ID1	15-0-027800			LUG (county, city, township)	Altkin Co.	
Property Owner:	Daniel Maher			Owners address (if different)		
Property Address: 3	37199 310th F	Pl. Aitkin Mr	56431	3911 Peterk	in Ave.	
City / State / Zip:				Anchorage /	AK 99508	
		Flow In	formation	and Waste Type / Strengtl	1	
Estimated Design flor	w450	_		Anticipated Waste strength	☐ Hi Strength	✓ Domestic
				Any Non-Domestic Waste	Yes (class V)	☑ No
Comments: Type III b Slab on grad	de house with	gravity flow	3	Sewage ejector/grinder pump	Yes	☑ No
House eleva	tion not set at	time of desig	n	Water softener	☐ Yes	☑ No
				Garbage Disposal	Yes	☑ No
			Daycare / In home business	_		
			Dayoute / In nome business	Yes	✓ No	
			Cita	Ynformation		
				2 Information		
Existing & proposed limprovements located		Yes	Site	e Information Well casing depth	Existing deep	welf
	d (see site map)				Existing deep ✓ Yes	well
Easements on lot loca (see site map)	l (see site map)		✓ No	Well casing depth Drainfield w/in 100' of	✓ Yes	
Easements on lot loca (see site map) Property lines determines see site map) Req'd setbacks determines	1 (see site map) ited	Yes	✓ No ✓ No	Well casing depth Drainfield w/in 100' of residential well Site w/in 200' of transient	✓ Yes	□ No
Easements on lot local (see site map) Property lines determined (see site map) Req'd setbacks determined (see site map) Utilities located & ideal	I (see site map) ited ined	☐ Yes ✓ Yes	✓ No ✓ No ☐ No	Well casing depth Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (Total)	✓ Yes ☐ Yes NCWS)	□ No ☑ No
improvements located Easements on lot loca	I (see site map) ated ined nined entified	☐ Yes ✓ Yes ✓ Yes	✓ No ✓ No ☐ No ☐ No	Well casing depth Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (To Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Buried water supply pipe	✓ Yes ☐ Yes NCWS) ☐ Yes	□ No ☑ No ☑ No
Easements on lot local (see site map) Property lines determing (see site map) Req'd setbacks determing (see site map) Utilities located & idea (gopher state one call) Access for system ma	d (see site map) ated ined entified intenance	☐ Yes ✓ Yes ✓ Yes ☐ Yes	✓ No ✓ No No No No	Well casing depth Drainfield w/in 100' of residential well Site w/in 200' of transient noncommunity water supply (T. Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Buried water supply pipe w/in 50' of system Site located in Shoreland	✓ Yes ☐ Yes NCWS) ☐ Yes ☐ Yes	□ No ☑ No ☑ No ☑ No

		Soil Information		
÷a glaghi		Evidence of site: Cut Filled Compacted	Yes Yes Yes	✓ No ✓ No ✓ No
Original soils	✓ Yes	Disturbed	Yes	✓ No
Soil logs completed and attached	✓ Yes	Perk test completed and attached (if applicable)	Yes	✓ No
Soil loading rate (gpd/ft ²)	0.50	Percolation rate (if applicable)	·	_
Depth/elev to SHWT	9"	Flooding or run-on potential (comments)	Yes	✓ No
Depth to system bottom maximum (or elev minimum)	(+36")	(commont)		
Depth/elev to standing water (if applicable)	0	Flood elevation (if applicable)		
Depth/elev to bedrock	8	Elevation of ordinary high water level (if applicable)		_
(if applicable) Soil Survey information determined (see attachment)	✓ Yes	Floodplain designation and elev - 100 yr/10 yr (if applicable)	NA	=
Differences between soil survey and field evaluation (if applicable)				
Milmon, M. Cary, Ch.		7115 - 1111		
				
I hereby certify this evaluation was	s completed in accord	lance with MN 7080 and any local reg's.		

Brummer Septic LLC.

Company

100% - 1711 JYP

L-1347

License #

Soil Observation Log

www.SepticResource.com vers 12.4							
			Owner Info	ormation			
Property Owner / project:		Daniel Maher			Date	6/2	1/2022
Property Add	dress / PID:	37199 310	th Pl. Aitkin Mn	56431			
			101 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
		×	Soil Survey I	nformation		r to attached s	oil survev
Parent matl's		_		_		-	
		✓ Till	Outwash	Lacustrine Allu	uvium 🔲 (Organic	☐ Bedrock
landscape po	sition:	Summit	Shoulder	Side slope	Toe slope		
soil survey m	ap units:	243	·	slope 2	% direction-	West	-
			C.T.	44			
		Powing	Soil Lo				
Depth (in)	Texture	Boring fragment %	Pit Elevation matrix color	redox color	Depth to SHWT consistence	9" grade	- shows
			main color	TOUGH COIGI	Consistence	grade	shape
0 - 5	Silt Loam	<35	10YR3/2		Eniolal		<u> </u>
0-3	Siit Loain	\33	10 Y K3/2		Friable	Weak	Blocky
5 - 9	Clay Loam	<35	2.5YR4/3		Friable	Moderate	Blocky
9 - 18	Clay Loam	<35	2.5YR4/3	7.5YR5/4	Firm	Moderate	Blocky
- 5							
				76.			
Comments:							

37199 310th Pl. Aitkin Mn 56431 Soil Log #2							
	✓ E	Boring [] Plt Elevation	97'	Depth to SHWT	10"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Silt Loam	<35	10YR3/2		Friable	Weak	Blocky
6 - 10	Silt Loam	<35	2.5YR4/4		Friable	Moderate	Błocky
10 - 14	Silt Loam	<35	2.5YR5/2	7.5YR5/4	Friable	Moderate	Blocky
37199 310	th Pl. Aitkin Mn	56431	S	oil Log #3			
		oring 🗌 Pi			Depth to SHWT		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

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

Brummer Septic LL
Company

Brummer Septic LLC.

L-1347

License #

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2011 purple code

Mound Design - Aitkin county

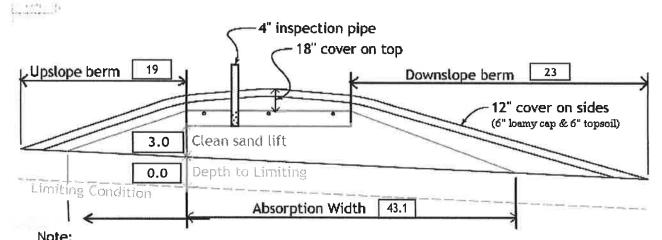
www.SepticResource.com (vers 15.2)

	Property Owner:	Daniel Maher		Date: 6/	21/2022
	Site Address:	37199 310th Pl. Aitkin	Mn 56431	PID:	15-0-027800
	Comments:	Type III because of soi	ls	-	;
instruc	ctions: = ent	er data	= adjust if desired	=	computer calculated - DO NOT CHANGE!
1)	3 bedroom	Type III	Residential	System	
2)	450 GPD design fl	iow			
3)	No Garbage disp	osal or pumped to septi	c Install 1650 J	acobson 2/	Compsrtment tank
4)	1000 Gal Septic ta	nk (code minimum)		ptic tank (ptions: no	(design size / LUG req'd) ne
5)	1.2 GPD/ft ² mou	nd sand loading rate	contour loading	rate of	12 req's a min 37.5 ft. long rockbed
6)	10.0 ft rockbed w	vidth 37.5 ft roc	kbed length		
7)	3.0 ft lateral spa	cing 3.0 ft per	foration spacing end feed manif	maximur) old connec	n of 3 for both) tion
8)	3 laterals	35.5 feet long	12.0 perfs / latera (1/2 a perf means the		gents statal starts at the middle feed manifold)
9)	1/4" inch perfs at	1 feet residual h	ead gives 0.74	gpm flow	rate per perforation
	for this perf size & sp	oacing, & pipe size on li	ne 12, max perfs/later	al≂	16 , line #8 must be less> OK
10)	7.0 doses per day	y (4 minimum)			
(1)	64 gallons per d	ose (treatment volum	e)		
12)	1.50 inch diamete	er laterals must be used	to meet "4x pipe volur	ne" require	1.50 5x ement 2.00 3x
13)	40 feet of	2.0 inch supply line	e leads to 7		f drainback volume o feed" manifold to control the drainback)
14)	71 gallons TOTA	L pump out volume (tre	eatment + drainback)		,
15)	15 feet vertical	lift from pump to mour	nd laterals, leads to a:		
16)	27 GPM @	21 feet of head,	Pump requirement	(note: >5	Ogpm may require an extra 3-6' of head)
17)	Control of the Contro	k (code minimum)	533 gal Dose tank	(design siz	ze / LUG req'd) at 12.69 gpi
18)		n Demand float, or a	timed dosing of 2.6 eak design flow) 5.2	min ON hrs OFF	(confirm pump rate with drawdown test and adjust as necessary)
19)		bottom of tank to "Pum	- 1		,
20)		bottom of tank to "Pum		- 1:	o "Timer ON" float if time dosed
21)		bottom of tank to "Hi Le		-	"Hi Level" float if time dosed
22)	267 gallons reser	ve capacity (after Higl	h Level Alarm is activa	ted)	

23)	0.50 gpd/ft ² Absorption are	a Soil Loading Rate,	which gives a mound ratio o	f 2.4 (minimum)
	(this must ma	cch the soil boring log)	desired mound ratio	2.4
24)	2 percent site slope (0-	20% range) 2 (% d	ownslope site slope, if differ	ent than upslope)
25)	- A CO - C	to Redox or other limiting condi		** '
		ntains 0 inches of 0% soil cr	C-10 0000 0000 0000	% soil credit. Giving a:
26)	36 inch, or 3.0 ft.	Sand Lift Mound CRI	ICAL FOR FUTURE CERTIFIC	ATIONS!!!
27)	ft. base absorption width 43.1 greater of: absorption w		as follows:)	
201		· ·		1
28)		upslope and sideslope	sand upslope 14.8	
			sand down slope 18.3	
	Individual slope ratios give BERN		of:	
29)	4:1 upslope ratio 19 ft.	upslope berm		
30)	4:1 sideslope 21 ft.	sideslope berms		
31)	4:1 downslope 23 ft.	downslope berm		
l				
32)	Overall Dimensions:	0.0 ft. wide by 37.5 ft.	long Rock bed	
2.7(0)			long Mound footprint	
	<u></u>	JZ It. Wide by 60 It.	tong Mound rootprint	
l		4" inspection pipe		
1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
1		18" cover on	top	
	Upslope berm 19		Downslope berm	23
18				
				ver on sides
1				y cap & 6" topsoil)
1	3.0 Ct	ean sand lift		
1				
2.		epth to Limiting		
ı	Limiting Condition	the transfer and the test are transfer and the test are		
1		Absorption Width	43.1	
ı			7	
ı	Note:	- Al 148 AA & A &		
	For slopes >1%, Absorption	otion Width is measured fr In Width is measured dowr		
33)	Rock Bed:			
130	10.0 ft. by 37.5 ft. by	9 inches under pipe, plus 20	% gives 17 yd³ or *1.4=	ton
34)	Mound Sand: (note: volume is	based on 3:1/4:1 slope from top	of rockbed, Exchange sand for	or loamy cap if desired)
	78.4 up + 101.6 downslop		er rock = 299 yd3 or *1.4=	A STATE OF THE STA
1			20%	
35)	Loamy Cap:	•		
		ep, plus 20% gives	81 yd3 or *1.4=	113 ton
1		-E' Line unio 2:100	340 Max 1	
36)	Topsoil:			
1	52 ft. by 80 ft. 6" de	ep, plus 20% gives	92 yd ³ or *1.4=	129 ton
1	SEGRE HICKORY	-		
	I hereby 1977 that I have com	pleted this work in accordance v	rith all applicable ordinances	rules and laws.
1	O/M/ Marray	Brummer Septic LLC.	L-1347	6/21/2022
	130 1401 P. D. C. 44. 1			

Installer Summary

1000 gallon Septic tank (minimum) Tank options: none Install 1650 Jacobson 2/Compsrtment tank gallon Dose tank (minimum) 12.69 gpi 27 ft. of head, Pump required 21 inch swing on Demand float which translates to roughly 3.8 inches of float tether length minutes ON time & 5.2 hours OFF time if time dosing is required --> inches from bottom of tank to "pump ON" float, or inches to "timer ON" float 21 inches to "Hi level alarm" if time dosed inches from bottom of tank to "Hi Level Alarm" or 40 ft. of 2.0 inch supply line with end feed manifold connection (Tip: "top feed" manifold to control drainback) inch, or 36 ft. Sand Lift Mound 3.0 10.0 ft. wide by 37.5 ft. long Rock bed 1.50 3 laterals inch diameter 35.5 ft. long 3.0 ft. lateral spacing 1/4" inch perfs 3.0 ft. perforation spacing Effluent filter & alarm clean out & valve box assemblies ft.Total sand ABSORPTION width (minimum) 14.8 ft. upslope and sideslope (sand beyond rockbed, minimum) ft. Downslope (sand beyond rockbed, minimum) Specific slope ratios give BERM widths (topsoil beyond rockbed) of: 4:1 upslope ratio 19 ft. upslope berm 4:1 sideslope 21 ft. sideslope berms 4:1 downslope 23 ft. downslope berm

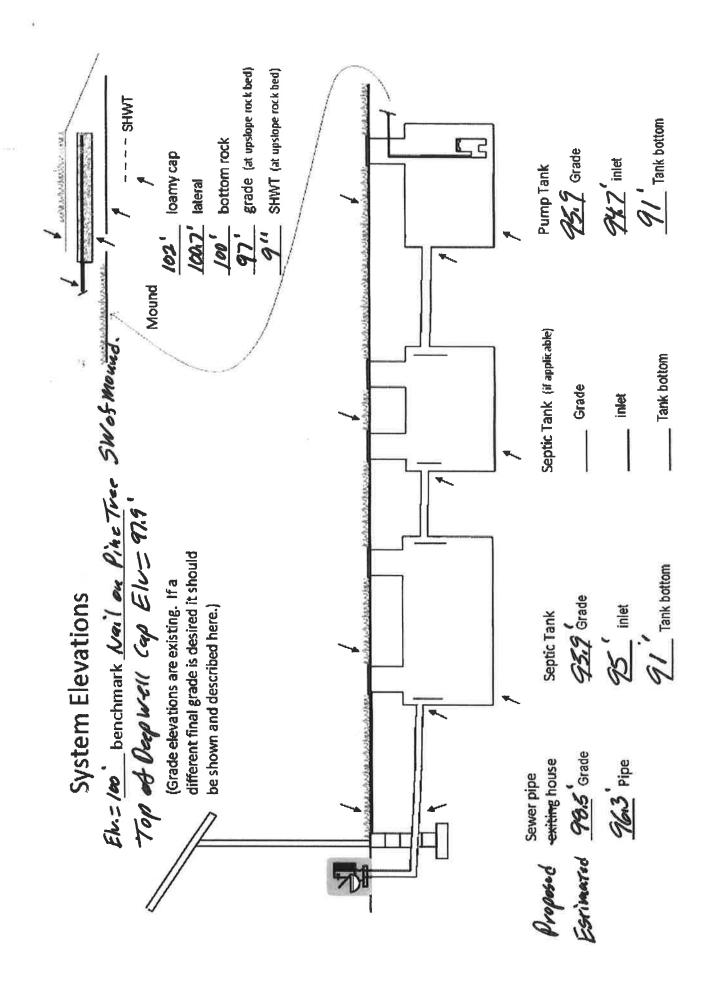


For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions. For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

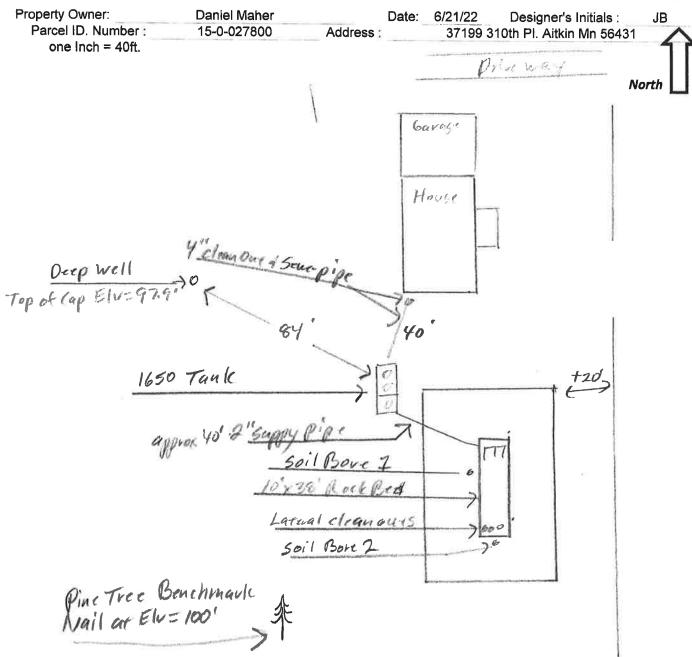
Rock Bed:	17.0	yd³ or *1.4=	24	ton	9 inches under pipe
Mound Sand:	299	yd ³ or *1.4=	419	ton	
Loamy Cap:	81	yd ³ or *1.4=	113	ton	6" deep
Topsoil:	92	yd ³ or *1.4=	129	ton	6" deep

INSPECTOR CHECKLIST - mound

	3/199 31Uth Pt. Aitkin Mn 36	7) I		
	WELL setbacks:	20' to pressure teste	d sewer line (5 psi for 15 min)	
		50' to everything	100' to dispersal area with sha	allow well
	PROPERTY LINES setback:	10' to everything		
	Road setback:	platted: 10' prop lin	e. Metes & bounds: out of road	easement, or outer ditch.
	LAKE / BLUFF setback:	20' for bluff. Lakes	: GD, RD, NE Pro	otected wetland
	Building setbacks:	10' for everything,	20' for dispersal area.	
	WATER LINE under pressure s	se 10' to bed, tank & se	wer line. (else sewer line > 12" b	elow, else ok w/pvc)
		ion (no 90's, 3' betw an out every 100', Sc	een 45's, slope min 1" in 8', max h 40 pipe)	2" in 8')
	_		oper depth, existing verified by p	oumping)
	mfg	gallons	none	
	Riser over outlet, riser over No effluent filter & alar Dose tank risers and piping mfg	rm	6"+ inspection pipe over any rema d, proper depth, drainback)	aining baffles.
	dose pump	gpm2	1head VERIFY PUMP CURVE	2.6 min ON 5.2 hr OFF
	<u> </u>	inches a gal dose divided by		3.8 inches approx float tether length inches float drop (field corrected
	2.0 inch supply pipe: Sc splice box / control panel / flow measurement: CT, ETM mound absorption area roug mound rock dimensions	h40, sloped 1/8"+, so electrical connection A, time dosed, home with up 10.0 X 37	weep hole. Supply line access upported by 4" sch40 sleeve or coss water meter	ompacted, and buried 6"+.
	Absorption Sand beyond roc	k <u>14.8</u> upsi	ope -	18.3 downslope
	Bermed topsoil beyond rock	bed <u>19</u> upsi	ope <u>21</u> sideslope	23 downslope
	cover depth of 12-18"+ 3 laterals (1-2' from inch pipe size 3.0 ft lateral spacing	edge of rock) (Sch40 pipe & fittin	VERIFY gs)	
	1/4" inch perforations 3.0 ft perforation space	ng		
46-00- 0	Air inlet at end of laterals, clean outs (no hard 90's) 4" inspection pipe to botton		fold if necessary. VERIFY VERIFY	
	Abandon existing system - in monitoring plan and type well abandonment form - in	Name of the last o	Re-use existing tank	certification



{ Design Drawing }



House Elevation Not set at time of design

Estimated Top of grade for proposed house 98.5'

Top of Deep Well Cap Elv. = 97.9' Grade at well Elv. = 96.1'

	Surface/ SHWT	Nail on Tree=	Bench N	lark 100'	Existing Grade
Soil Bore 1	96.9'/ 9"	Bench Mark	100'		Upslope Edge of Rockbed Elv.= 97'
Soil Bore 2	97' / 10"	Ground Elv. BM	96'		Bottom of Rockbed Elv.= 100'
Soil Bore 3		Ground Elv. Tank	95.9'		Top of Washed Sand Elv.= 100'
	Existing Grade at	Proposed house	97.3'	SW corner	Estimated Sewer pipe at House 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

Component Location

OHW ordinary high water

Lot Easements

Access Route for Tank Maintenance

Property Lines

Structures

Setbacks

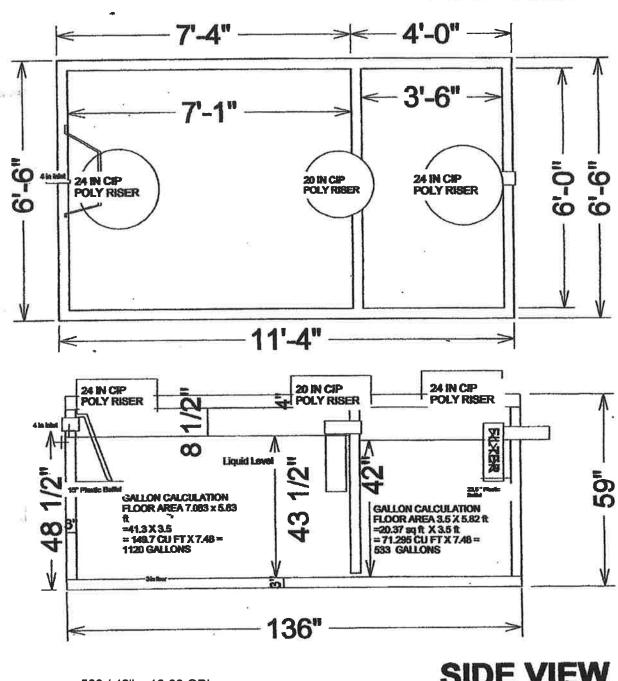
Mound Design Notes - Aitkin county

		•			,	
Pı	roperty Owner:	Daniel Maher		Date:	6/21/22	
	Site Address:	37199 310th Pl. Aitkin Mn 56431		PID:	15-0-027800	_
	Comments:	Mound design may not fo	llow Aitkin co	. Auto fill f	orm for mound o	lesign.
1	This is a type III	mound , (Soil Separation 9") sized	d for a 3 bedroo	om system		
2	Existing well loca	ation is West of proposed house.				
3	Proposed house Elevation not set at time of design. Estimated top of pad grade Elv. = 98.5'					
	Estimated sewer	pipe at house Elv. = 96.3'			4	
4	The house is gra	wity flow from SW corner of house,	install clean-o	ut near hou	ise.	
5	Lot is Flat, instal	l 1650 Jacobson compartment tank	for gravity flow	w from hous	se.	
	Install tank low e	enough for drainback from mound to	pump tank.			
6	The berm slopes	are at 4:1. Septic system meets 5	0 ft setback to	well		
7	Elevation contou	ır of rock bed upslope edge is 97' .	The East berm	will be ap	prox. 20 ft. from p	roperty line.
	The area size of	the rock bed is 10' \times 38' . Absorption	on area is 38' x	43.1'.		
	Sand absorption area is 14.8 ft. up slope + 10 ft. rockbed + 18.3 downslope = approx. 43.1 ft. wide sand base.				wide sand base.	
	Berms are 19ft.	Upslope, 23ft. Down slope, 10ft. Ro	ock bed = appro	ox. 52ft. Wi	de.	
	Overall mound s	ize is approx. 52' wide x 80' long ar	nd approx. 5' h	igh. End be	erms are 21ft. Wid	de.
8	The bench mark	is the nail on the tree near mound	area, BM = E	lv. 100'.		
	Installer to doubl	le check bench mark. Installer shou	ıld confirm ben	ich mark an	d sand height Elv	with inspector.
	Installer should r	ecord bench mark Elv. and sand he	eight on installa	ation insped	ction form.	
	The top of the sa	and and bottom of rock bed is Elv.	100'.			
9	It is important the	at the soils do not get compacted, a	and that clean	Washed sa	and is used.	
10	The Jacobson 1	650 tank will be gravity flow from d	welling. Install	the pump fo	or 7 demand dose	S
	per day. approx.	71 gallons per dose, 5.6 inches of	tank level. Inst	tali alarm at	3 inches from pu	mp on level.
	Install all manho	les, inspection pipes and clean-out	s to grade or a	bove. (Red	commend min. 4"	above grade)
	Install a 2" suppl	ly pipe from tank to end manifold in	rock bed, insta	all so pipe o	drains back to tan	k.
	Install 1.5" latera	als with 9" of rock under them. (Ins	tall Lateral clea	an-outs at fa	ar end of laterals.	Recommended)
11	Drill 1/4" per	f holes spaced 3 ft. on cent	er.			
	Install 4"inspecti	on pipe to bottom of rock bed, secu	ure in rock bed	and raise t	o above final grad	te.
12	Install Event cou	inter on Effluent pump, calibrate pu	ımp and give g	allons per e	event to Owner.	
13	Designer does n	ot guarantee or warranty any Type	III systems.			
	Designed to Aitk	in Co and MPCA recommendation	ns and require	ments.		
		brown-	Drummer Con	tio LLC	1 1247	
	Designer Sign		Brummer Sep Design Compa		L-1347 Licenser	#
	////			·		
	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



533 / 42" = 12.69 GPI

SIDE VIEW

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



Detailed Parcel Report

Parcel Number: 15-0-027800

General Information

Township/City:

KIMBERLY TWP

Taxpayer Name:

MAHER, DANIEL L JR

Taxpayer Address:

3911 PETERKIN AVE

ANCHORAGE AK 99508

Property Address:

37199 310th Pl

Township:

47

Lake Number:

0

Range:

25

Lake Name:

Section:

16

Acres:

37.14

Green Acres:

No

School District:

1.00

Plat:

Brief Legal Description:

SE OF SE LESS N P R/W

Tax Information

Class Code 1:

Non-Comm Seasonal Residential Recreational

Class Code 2:

Rural Vacant Land

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2022

Estimated	Land Value:
Estimated	Building Value:

\$72,900.00 \$600.00

Estimated Total Value:

\$73,500.00

Prior Year Total Taxable Value:

\$55,600.00

Current Year Net Tax (Specials Not Included):

\$504.00

Total Special Assessments:

\$0.00

**Current Year Balance Not Including Penalty:

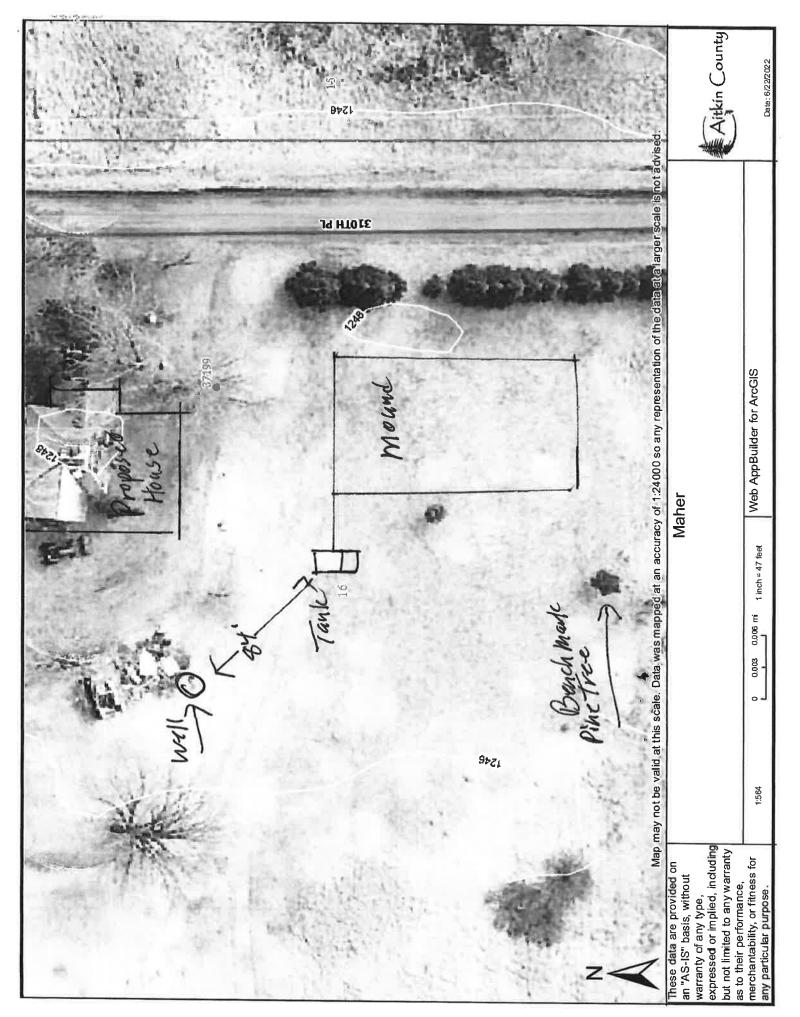
\$0.00

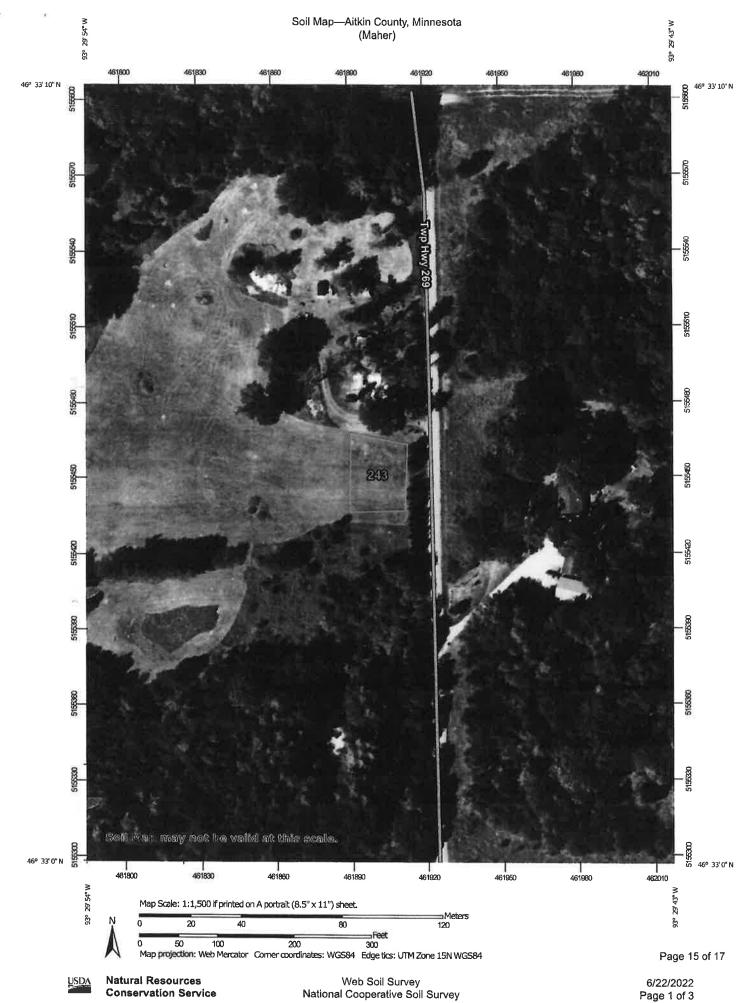
Delinquent Taxes:

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.





37

Aitkin County, Minnesota

243—Stuntz very fine sandy loam

Map Unit Setting

National map unit symbol: gjg8 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: Prime farmland if drained

Map Unit Composition

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

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Stuntz

Setting

Landform: Flats on moraines Down-slope shape: Linear Across-slope shape: Concave Parent material: Loamy till

Typical profile

A - 0 to 3 inches: very fine sandy loam E,B/E,Btg - 3 to 37 inches: clay loam

C - 37 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat 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 18 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: High (about 10.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: C/D

Forage suitability group: Level Swale, Acid (G090AN005MN)

Other vegetative classification: Level Swale, Acid

(G090AN005MN)
Hydric soil rating: No

Minor Components

Seelyeville and similar soils

Percent of map unit: 4 percent Landform: Bogs Hydric soil rating: Yes

Talmoon and similar soils

Percent of map unit: 4 percent Landform: Swales Hydric soil rating: Yes

Sandwick and similar soils

Percent of map unit: 3 percent Landform: Swales Hydric soil rating: Yes

Warba and similar soils

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

Stones on the surface

Percent of map unit: 1 percent Hydric soil rating: No

Data Source Information

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