Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

			Owner	Information		
Date <u>4/14</u>	4/2024			Sec / Twp / Rng	S-25, T-49, R-	23
Parcel ID 29-	0-054204			LUG (county, city, township)	Aitkin Co.	
Property Owner: Ter	rylee Tervo	la		Owners address (if different)		
Property Address: 474	42 165th P	I. McGreg	or Mn 55760	1172 Aquarii	us Ln.	
City / State / Zip:	ity / State / Zip:			Eagan Mn 5	5123	
		Flow In	formation a	nd Waste Type / Strength	ı	
Estimated Design flow	450			Anticipated Waste strength	☐ Hi Strength	✓ Domestic
Comments: Old Resort 3 small Cabins, one bedroom each			room each	Any Non-Domestic Waste	Yes (class V)	✓ No
Reuse the existing sewer pipe from Cabin 7 & 8				Sewage ejector/grinder pump	Yes	✓ No
Cabin 6 will need new sewer pipe from clean-out to new tank. Bench Mark Nail on in tree near cabin 8 Downslope absorption area 15 ft from So. Property Line.			Water softener	Yes	✓ No	
			Garbage Disposal	Yes	✓ No	
				Daycare / In home business	Yes	✓ No
			Site I	nformation		
Existing & proposed lot improvements located (Yes	✓ No	Well casing depth	Existing deep well	
Easements on lot located		Yes	[] Na	Drainfield w/in 100' of	Yes	✓ No
(see site map)	d		✓ No	residential well		
	ed	✓ Yes Owner	□ No		Yes	✓ No
(see site map) Property lines determine	ed By C	✓ Yes		residential well Site w/in 200' of transient		✓ No ✓ No
(see site map) Property lines determine (see site map) Req'd setbacks determin	ed By C	✓ Yes Owner	☐ No	residential well Site w/in 200' of transient noncommunity water supply (T. Site w/in an inner wellhead	NCWS)	
(see site map) Property lines determine (see site map) Req'd setbacks determin (see site map) Utilities located & ident (gopher state one call)	ed By C ned tified	✓ Yes Owner ✓ Yes	□ No	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	NCWS)	✓ No
(see site map) Property lines determine (see site map) Req'd setbacks determine (see site map) Utilities located & ident (gopher state one call) Access for system mains	ed By Coned tified tenance	✓ Yes Owner ✓ Yes	□ No □ No □ No	residential well Site w/in 200' of transient noncommunity water supply (Tour Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Buried water supply pipe w/in 50' of system Site located in Shoreland	NCWS) Yes Yes	✓ No ✓ No

	So	il Information		
Original soils	✓ Yes No	Evidence of site: Cut Filled Compacted Disturbed	☐ Yes ☐ Yes ☐ Yes ☐ Yes	✓ No ✓ No ✓ No ✓ No
Soil logs completed and attached	✓ Yes	Perk test completed and attached (if applicable)	Yes	✓ No
Soil loading rate (gpd/ft ²)	0.78	Percolation rate (if applicable)		
Depth/elev to SHWT Depth to system bottom	(+ 12")	Flooding or run-on potential (comments)	Yes	✓ No
maximum (or elev minimum) Depth/elev to standing		Flood elevation (if applicable)		_
water (if applicable) Depth/elev to bedrock (if applicable)		Elevation of ordinary high water level (if applicable)	1253.6'	_
Soil Survey information determined (see attachment)	Yes No	Floodplain designation and elev - 100 yr/10 yr (if applicable)	NA	_
Differences between soil survey and field evaluation (if applicable)				
I hereby certify this evaluation wa		ce with MN 7080 and any local req's.		L-1347
Designer/Signature		nmer Septic LLC.		License #

Soil Observation Log

					www.	SepticResourc	e.com vers 12.4
A Programme			Owner Info	rmation			
Property Owner / project:		Terrylee Te	rvola	Date	4/14	1/2024	
Property Add	ress / PID:	47442 165th	Pl. McGregor Mn 55	760			
			Soil Survey I	nformation	refer	to attached s	oil survey
Parent matl's:		☐ Till ✓ Outwash		Lacustrine All	uvium 🔲 C	Organic	☐ Bedrock
landscape pos	sition:	Summit	Shoulder	✓ Side slope	Toe slope		
soil survey m	ap units:	564		slope 3	_% direction-	South	-
			C. II.	41			
		- ·	Soil Lo				
Depth (in)	✓ Texture	Boring	Pit Elevation matrix color	98.1' I	Depth to SHWT consistence	27" grade	- shape
Deptii (iii)	Texture	ragment 70	matrix color	redox color	Consistence	grade	Shape
0 - 4	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
4 - 27	Sandy Loam	<35	10YR4/4		Loose	Loose	Granular
27 - 34	Sandy Loam	<35	10YR4/4	Faint 7.5YR5/4	Loose	Loose	Granular
34 - 39	Med Sand	<35	10YR5/4	7.5YR5/6	Loose	Loose	Granular
Comments:							

47442 1651	th Pl. McGregor	Mn 55760	S	oil Log #2			
	✓ E	Boring] Pit Elevation		Depth to SHWT	27"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 4	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
4 - 27	Med Sand	<35	7.5YR5/4		Loose	Loose	Granular
27 - 36	Med Sand	<35	7.5YR5/4	7.5YR6/6 & 7.5YR4/6	Loose	Loose	Granular
47442 165	th Pl. McGregor	Mn 55760	S	oil Log #3			
	□ Во	oring 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. \square

Maur	Brummer Septic LLC.	L-1347
Designer Signature	Company	License #

2011 purple code

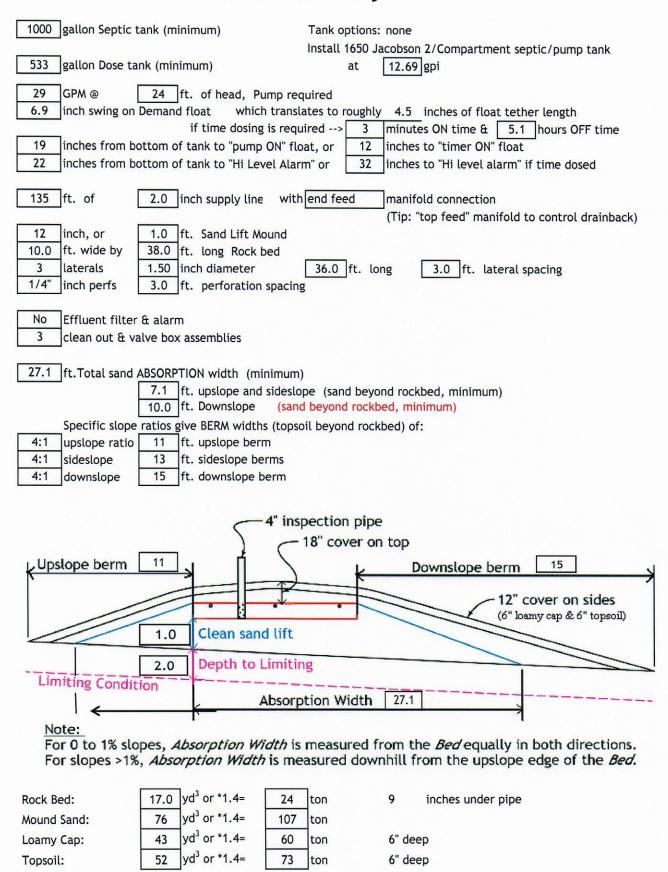
Mound Design - Aitkin county

www.SepticResource.com (vers 15.2)

	Property Owner:	Terrylee Tervola	Date: 4/14/2024
	Site Address:	47442 165th Pl. McGregor Mn 55760	PID: 29-0-054204
	Comments:	3 - one bedroom cabins	
instruc	ctions: = ent	er data = adjust if desired	= computer calculated - DO NOT CHANGE!
1)	3 bedroom	Type I Residential	System
2)	450 GPD design f	low	
3)	No Garbage disp	oosal or pumped to septic Install 1650	Jacobson 2/Compartment septic/pump tank
4)	1000 Gal Septic ta		Septic tank (design size / LUG req'd)
5)	1.2 GPD/ft ² mou	nd sand loading rate contour loadin	g rate of 12 req's a min 37.5 ft. long rockbed
6)	10.0 ft rockbed v	vidth 38.0 ft rockbed length	
7)	3.0 ft lateral spa		(maximum of 3 for both) ifold connection
8)	3 laterals	36.0 feet long 13.0 perfs / late (1/2 a perf means t	ral 39 perfs total he first perf starts at the middle feed manifold)
9)	1/4" inch perfs at	1 feet residual head gives 0.7	gpm flow rate per perforation
	for this perf size & sp	pacing, & pipe size on line 12, max perfs/lat	eral = 16, line #8 must be less> OK
10)	7.0 doses per da	y (4 minimum)	
11)	64 gallons per d	lose (treatment volume)	
12)	1.50 inch diamete	er laterals must be used to meet "4x pipe vol	The second secon
13)	135 feet of	2.0 inch supply line leads to 23	gallons of drainback volume (Tip: "top feed" manifold to control the drainback)
14)	87 gallons TOTA	AL pump out volume (treatment + drainback)	
15) 16)	15 feet vertical 29 GPM @	lift from pump to mound laterals, leads to a	(note: >50gpm may require an extra 3-6' of head)
17)		k (code minimum) 533 gal Dose ta	nk (design size / LUG req'd) at 12.69 gpi
18)	-	n Demand float, or timed dosing of 3 Average flow, =70% of Peak design flow) 5.	
19)		bottom of tank to "Pump OFF" float	
20) 21)		bottom of tank to "Pump ON" float, or bottom of tank to "Hi Level" float, or 3:	
22)	254 gallons reser	rve capacity (after High Level Alarm is activ	vated)

23)		area Soil Loading Rate,	which gives a mound ratio	
24)	(this must	match the soil boring log) (0-20% range) 3	desired mound ra (% downslope site slope, if diff	
				erent than upstope)
25)		ft. to Redox or other limiting		2" to be a Type I)
26)		contains 0 inches of 0% s	oil credit, and 0 inches of CRITICAL FOR FUTURE CERTI	50% soil credit. Giving a:
			CRITICAL FOR FUTURE CERTIF	FICATIONS!!!
27)	15.0 ft. base absorption w	menen (National State of the St	ckbed as follows:)	
28)		n width OR sand slope ft. upslope and sideslope		
20)	5.0	ft. Downslope	sand upslope 7.1 sand down slope 10.0 Us	0 10 ft
		ERM widths (topsoil beyond roc		tay 15 from property line)
29)	4:1 upslope ratio 11	ft. upslope berm	(.	tay to from property time)
30)	4:1 sideslope 13	ft. sideslope berms		
31)	4:1 downslope 15	ft. downslope berm		
32)	Overall Dimensions:	10.0 ft. wide by 38.0	Tet John Book had	
32)	Overall Dimensions.	36 ft. wide by 38.0	ft. long Rock bed ft. long Mound footprint	
		or it mad by	_ rea tong mound rootprine	
		4" inspection		
	Unclose horm 11	18" cove	er on top	15
k	Upslope berm 11		Downslope berm	——————————————————————————————————————
			C12" o	cover on sides
				amy cap & 6" topsoil)
	1.0	Clean sand lift		
_	2.0	Depth to Limiting		
	Limiting Condition			
	←	Absorption Wic	th 27.1	
	Note:			
			ed from the <i>Bed</i> equally in downhill from the upslope	
22)	Rock Bed:	tion math is measured t	lowillitt from the upstope	edge of the bea.
33)	10.0 ft. by 38.0 ft. by	9 inches under pipe, p	lus 20% gives 17 yd³ or *1.	4= 24 ton
34)	Mound Sand: (note: volume		n top of rockbed, Exchange sand under rock = $76 \text{ yd}^3 \text{ or } *1.$	The state of the s
	14.6 up + 24.9 downs	tope + 7.8 elius + 16.2	plus 20%	4- 107 ton
35)	Loamy Cap:		* Decre - Comment of	
	32 ft. by 60 ft. 6	deep, plus 20% gives	43 yd³ or *1.	4= 60 ton
36)	Topsoil:			
	36 ft. by 64 ft. 6	deep, plus 20% gives	52 yd ³ or *1.	4= 73 ton
	I benehit somtiff thet I be	ampleted this west in accord-	nee with all applicable andicases	on rules and laws
	1 11.11	ompleted this work in accorda Brummer Septic LLC	nce with all applicable ordinanc . L-1347	es, rules and laws. 4/14/2024
	Designer signature	Company	License#	Date

Installer Summary



INSPECTOR CHECKLIST - mound 4/442 165th Pl. McGregor Mn 55/60 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) 1000 gallons none Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles. effluent filter & alarm Dose tank risers and piping (water tight, insulated, proper depth, drainback) 533 gallons dose pump _____ 29 gpm 24 head VERIFY PUMP CURVE 3 min ON 5.1 hr OFF float setting drop 6.9 inches at 12.7 gpi "DESIGNED" 4.5 inches approx float tether length 87.0 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 12 inches. Sand lift depth (Jar test: 2" sand leaves < 1/8" silt after 30 min) Absorption Sand beyond rock 7.1 upslope 10.0 downslope Bermed topsoil beyond rockbed 11 upslope 15 downslope 13 sideslope cover depth of 12-18"+ **VERIFY** 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

VERIFY

Re-use existing tank certification

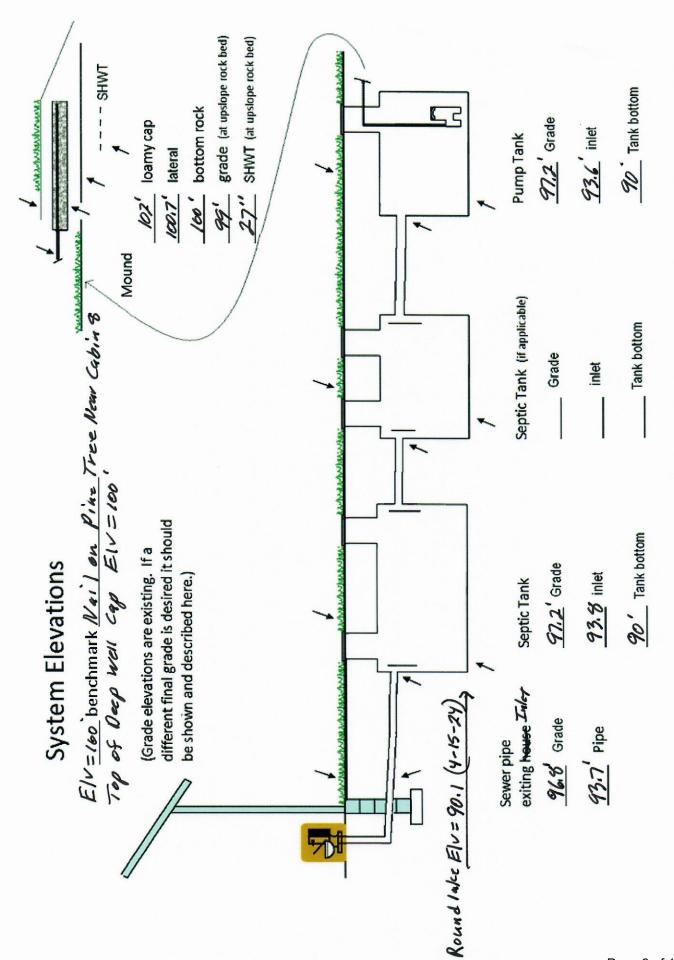
clean outs (no hard 90's)

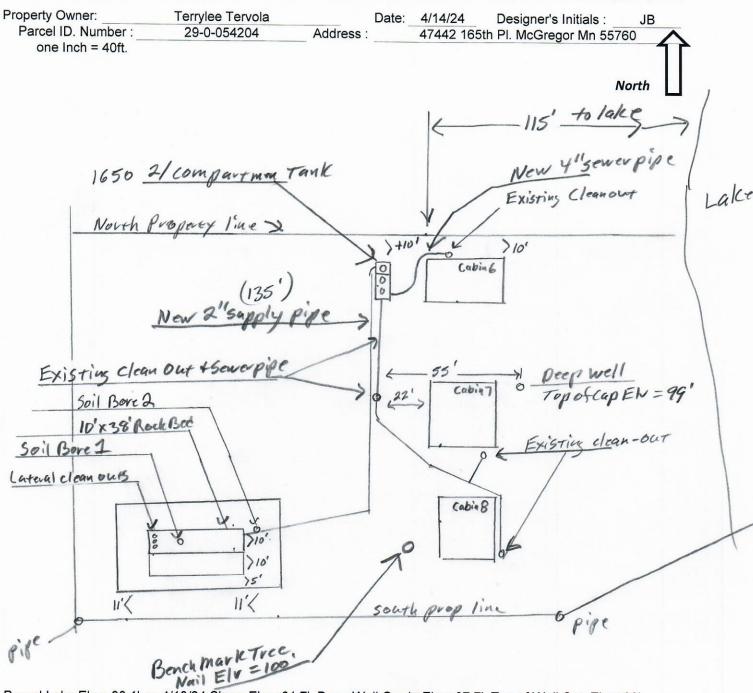
monitoring plan and type

4" inspection pipe to bottom of rock, anchored

Abandon existing system - if necessary

well abandonment form - if necessary





Round Lake Elv.= 90.1' on 4/13/24 Shore Elv.= 91.7' Deep Well Grade Elv.= 97.7' Top of Well Cap Elv.= 99'

	Surface/ SHWT	Nail on Pine Tree= Bench Mark 100'		Existing Grade
Soil Bore 1	98.1' / 27"	Bench Mark	100'	Upslope Edge of Rockbed Elv.= 99'
Soil Bore 2	98' / 27"	Ground Elv. BM	97.7'	Bottom of Rockbed Elv.= 100'
Soil Bore 3		Ground Elv. Tank	97.2	Top of Washed Sand Elv.= 100'
Grade at C	lean-out middle of	yard Elv.= 98.1'	Sewer Pipe Elv.= 94.4	Existing tank Inlet Elv.= 93.7'

Please show all that apply (Existing)
Wells within 100ft. Of Drain field.
Water lines within 10 ft. of Drain field.

valer lines within 10 it. of Drain lie

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

{ Design Drawing }

Property Owner: Terrylee Tervola Date: 4/14/24 Designer's Initials : JB
Parcel ID. Number : 29-0-054204 Address : 47442 165th Pl. McGregor Mn 55760

one Inch = 40ft.

North

Cabin # 6 Grade at NW corner Elv. = 97' SW corner Grade Elv. = 97.4'

Cabin # 7 Grade at NW corner Elv.= 97.4' SW corner Grade Elv. = 97.8'

Cabin #8 Grade at NW corner Elv.= 97.6' SW corner Grade Elv. = 96.7'

Deep Well Grade Elv.= 97.7' Top of Well Cap Elv.= 99'

Grade at Clean-out middle of yard Elv.= 98.1' Sewer Pipe at Clean-out middle of yard Elv.= 94.4'

New Septic Tank Grade Elv.= 97.2' Estimated New Septic tank In-let Elv.= 93.8' Estimated Bottom of tank Elv.= 90' Round Lake Elv.= 90.1' on 4/13/24 Shore Elv.= 91.7'

Round Lake Elv.= 90.1' on 4/13/24 Shore Elv.= 91.7' Deep Well Grade Elv.= 97.7' Top of Well Cap Elv.= 99'

	Surface/ SHWT	Nail on Pine Tre	ee= Bench	Mark 100'	Existing Grade
Soil Bore 1	98.1' / 27"	Bench Mark	100'		Upslope Edge of Rockbed Elv.= 99'
Soil Bore 2	98' / 27"	Ground Elv. BM	97.7'		Bottom of Rockbed Elv.= 100'
Soil Bore 3		Ground Elv. Tank	97.2		Top of Washed Sand Elv.= 100'
Grade at C	lean-out middle of	f yard Elv.= 98.1'	Sewer Pipe	Elv.= 94.4'	Existing tank Inlet Elv.= 93.7'

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.

Water lines within 10 ft. of Drain field.

Drain field Areas:

in field Areas: OHW ordinary high water Structures

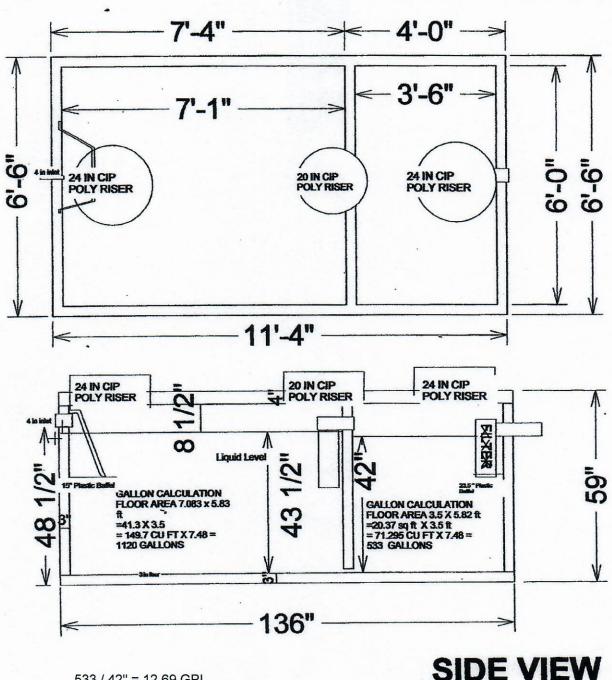
Lot Easements Setbacks

Mound Design Notes - Aitkin county

P	roperty Owner: Terrylee Tervola	Date:	4/14/24
	Site Address: 47442 165th Pl. McGregor Mn 55760	PID:	29-0-054204
	Comments: Mound design may not follow Aitkin co	. Auto fill form	for mound design.
1	This is a type I mound for a 3 bedroom total, 3 cabins one bedro		
	Existing deep well location is NE corner Cabin #7. (These 3 ca		
2	Reuse sewer line from Cabins #7 & #8, ran pipe camera down processes and protect in Raise clean-out at middle of yard to finished grade and protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down protect in the sewer line from Cabins #7 & #8, ran pipe camera down pr	G 87 18	
			do and and inlat an contin tank
	Cabin #6 will need a new sewer pipe to the septic tank. Installer	100	•
2	Owner wants new 2" supply pipe to run straight South to cabin a		
3	Property lines marked by owner, has pipes on corners, tank will		
4	Installer to construct downslope Mound absorption area +15 ft f		berty line.
4			
5			
	Installer may order tank with end and side inlets. Install should in	nave tank wate	rproofed if possible, bottom in water?
6	Install tank with drainback from mound to pump tank.		
0	Elevation contour of rock bed upslope edge is 99'.	01 07 41	
	The area size of the rock bed is 10' x 38'. Absorption area is 38		27.1 ft wide send bees
	Sand absorption area is 7.1 ft. up slope + 10 ft. rockbed + 10 d		
	Berms are 11ft. Upslope, 15ft. Down slope, 10ft. Rock bed = ap		
7	Overall mound size is approx. 36' wide x 64' long and approx. 3		
7			
	Installer to double check bench mark. Installer should confirm b		
8	Installer should record bench mark Elv. and sand height on inst The top of the washed sand and bottom of rock bed is Elv. 100'	300	ion iorm.
0	It is important that the soils do not get compacted, and that clear		l is used
9			
0	per day, approx. 87 gallons per dose, 6.9 inches of tank level. In		
	Install all manholes, inspection pipes and clean-outs to grade of		A CAST MATERIAL DE CONTRACTOR
10	Install a 2" supply pipe from tank to end manifold in rock bed, in		
	Install 1.5" laterals with 9" of rock under them. (Install Lateral of	COCCOSION DOZE SANGRIDE WILL	
11	Drill 1/4" holes for Perf sizing, 36" on centers.		,
	Install 4" inspection pipe to bottom of rock bed, secure in rock	bed and raise t	o above final grade.
	MPCA recommends Installing an Effluent filter and Alarm on se		
	MPCA recommends installing an event counter on all systems		
	Designed to Aitkin Co. and MPCA recommendations and requi	irements.	
	011/200		
_	Brummer Septic LLC.		L-1347
De	esign Signature Design Company		License#

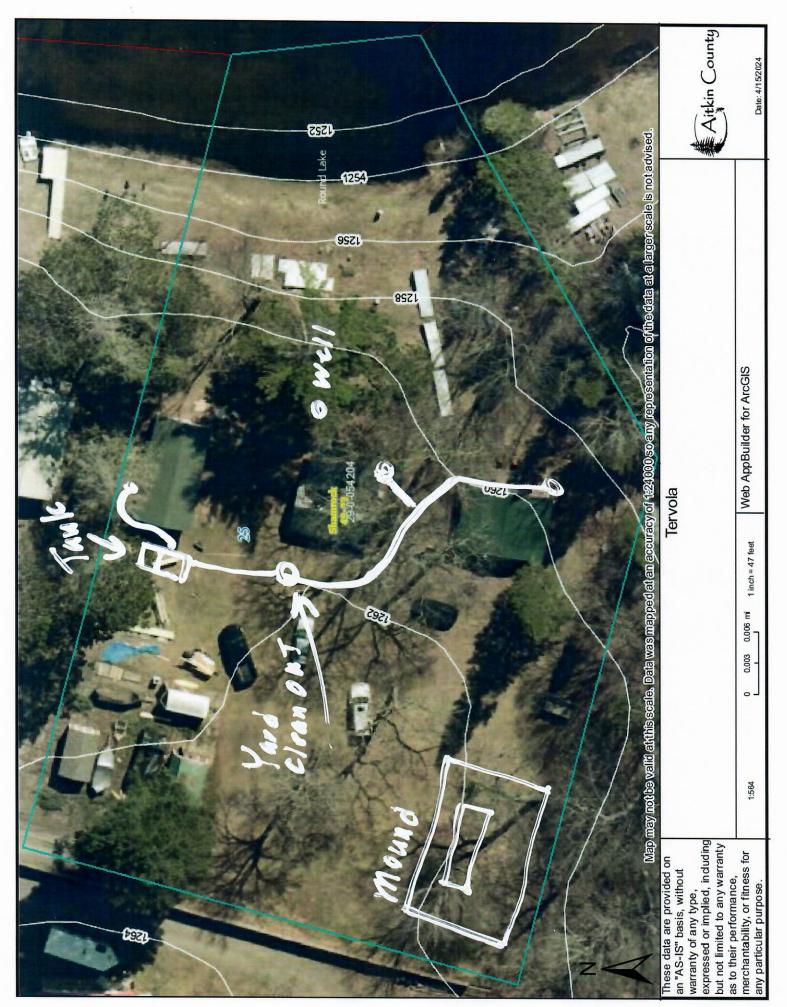
1650 Gallon 2 Compartment **Septic Tank**

TOP VIEW



533 / 42" = 12.69 GPI

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





Detailed Parcel Report

Parcel Number: 29-0-054204

General Information

Township/City:

SHAMROCK TWP

Taxpayer Name:

TERVOLA, STEPHEN & TERRYLEE TRUSTEE

Taxpayer Address:

TERVOLA FAMILY TRUST

MCCABE, KELLY & DEBRA ANN

1172 AQUARIUS LN EAGAN MN 55123

Property Address:

47442 165th Pl

Township:

49

Lake Number:

1002300

RD

Range:

23

Lake Name:

ROUND LAKE (SHAM/HAUG TWPS)

Section:

25

Acres:

0.80

Green Acres:

No

School District:

4.00

Plat:

Brief Legal Description:

.80 AC OF LOT 4 IN DOC #267369

Tax Information

Class Code 1:

Non-Comm Seasonal Residential Recreational

OHW = 1253,6'

Class Code 2:

Unclassified

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2024

Estimated Land Value:

\$194,000.00

Estimated Building Value:

\$53,700.00

Estimated Total Value:

\$247,700.00

Prior Year Total Taxable Value:

\$242,700.00

Current Year Net Tax (Specials Not Included):

\$1,442.00

Total Special Assessments:

\$0.00

**Current Year Balance Not Including Penalty:

\$1,442.00

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.

Aitkin County, Minnesota

564—Friendship loamy sand

Map Unit Setting

National map unit symbol: gjhw 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

Friendship and similar soils: 85 percent

Minor components: 15 percent

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

Description of Friendship

Setting

Landform: Outwash plains

Landform position (two-dimensional): Backslope, summit

Down-slope shape: Linear Across-slope shape: Concave Parent material: Sandy outwash

Typical profile

E - 0 to 3 inches: loamy sand Bw1 - 3 to 6 inches: loamy sand Bw2,Bw3,BC - 6 to 39 inches: sand C1,C2 - 39 to 60 inches: sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well 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: About 41 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A

Ecological site: F057XY023MN - Dry Sandy Upland Coniferous

Forest

Forage suitability group: Sloping Upland, Low AWC, Acid

(G090AN008MN)



Other vegetative classification: Sloping Upland, Low AWC, Acid

(G090AN008MN)
Hydric soil rating: No

Minor Components

Leafriver

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Meehan

Percent of map unit: 5 percent Hydric soil rating: No

Menahga

Percent of map unit: 5 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 24, Sep 9, 2023