Preliminary & Field Evaluation Form www.SepticResource.com v

		Ov	vner Information		
Date 6/	26/2018		Sec / Twp / Rng		
Parcel ID 24	24-0-035800		LUG (county, city, township)	Aitkin Co.	
Property Owner: Th	Thomas Rosier		Owners address (if different)	-	
Property Address: 39	388 318th Ln.	Aitkin MN 56431			
City / State / Zip:					
	F	low Informatio	n and Waste Type / Streng	th	
Estimated Design flow				CII	
			Anticipated Waste strength	☐ Hi Strength	☑ Domestic
Comments: Replacing the existing mound with			Any Non-Domestic Waste	Yes (class V)	☑ No
A Higher one app Will be a Type II	rox 22" higher I mound		Sewage ejector/grinder pump	☐ Yes	☑ No
Becky was out on 6/22/2018 to look at the wetland			Water softener	☐ Yes	☑ No
			Garbage Disposal	☐ Yes	☑ No
			Daycare / In home business	☐ Yes	☑ No
		Sit	te Information		
Existing & proposed loa	□ Ye				
mprovements located	(see site map)	5	Well casing depth	Proposed new well	
Easements on lot locate see site map)	đ □Ye	s 🖸 No	Drainfield w/in 100' of residential well	☑ Yes	□ No
roperty lines determine	ed ☑ Ye	s □ No	Site w/in 200' of transient	☐ Yes	
	Others		noncommunity water supply (T		☑ No
Req'd setbacks determin see site map)	ed 🖸 Ye	5 □ No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	☐ Yes	☑ No
Itilities located & ident gopher state one call)	ified □ Yes	5 ☑ No	Buried water supply pipe w/in 50' of system	☐ Yes	☑ No
ccess for system maint	enance 🖸 Yes	□ No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	☑ Yes	□ No
oil treatment area prote	cted 🖸 Yes	i □ No	Site map prepared with previous items included	☑ Yes	□No
onstruction related issu			and any bad sand then replace w		

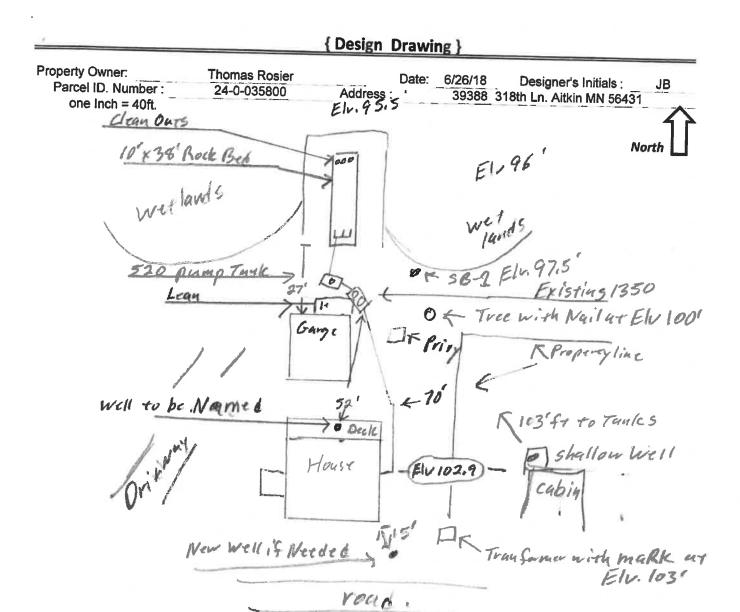
Soil Observation Log

www.SepticResource.com vers 12.4 **Owner Information** Property Owner / project: Thomas Rosier 6/26/2018 Property Address / PID: 39388 318th Ln. Aitkin MN 56431 Soil Survey Information refer to attached soil survey Parent matl's: ☐ Outwash □ Lacustrine ☐ Alluvium □ Organic ☐ Bedrock landscape position: ☐ Summit ☐ Shoulder ☐ Side slope ☐ Toe slope soil survey map units: 928D 0 % direction- Flat Soil Log #1 ☑ Boring ☐ Pit 97.5' Elevation Depth to SHWT Depth (in) Texture fragment % matrix color redox color consistence grade shape Topsoil 0 - 4 <35 10YR3/2 Friable Weak Sandy Loam Granular 4 - 10 Clay Loam <35 5YR5/4 Friable Loose Blocky 8" Clay Loam <35 5YR5/4 7.5YR5/6 Friable Weak Blocky <35 Loose Loose Granular <35 Loose Loose Granular on 6-22-18 mer with Becky mette agreed on Elu. for separation from westand. Elv. is were westand meers non westand. Elv. 97' - Did soil Boving at 97.5 had 8"to mortles. Comments:

use 97'as up slope Edge.

23)	0.60 gpd/ft ² Absorption area Soil Loading Rate						
367	(this must need be the country rate, which gives a mound ratio of 2 (minimum)						
24)	0 percent site slope (0-20% range) 0 (% downslope site slope, if different than upslope)						
25)	O inches or OO fe a D						
1	Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:						
26)	36 inch, or 3.0 ft. Sand Lift Mound CRITICAL FOR FUTURE CERTIFICATIONS!!!						
27)	TOO OF THE PROPERTY OF THE PRO						
2"	(Mill Salid Devolt (Ockbed as follows)						
28)	as a service of said stope						
1	Individual slope ratios give BERM widths (topsoil beyond rockbed) of:						
29)	3:1 upslope ratio 15 ft. upslope berm Rock Bed of Existing Moune d						
30)	3:1 sideslope 15 ft. sideslope berms						
31)	upslope ratio 3:1 upslope ratio 3:1 sideslope 15 ft. upslope berm ft. sideslope berms downslope 15 ft. downslope berm						
32)	Overall Dimensions: 10.0 ft. wide by 37.5 ft. long Rock bed						
	40 ft. wide by 68 ft. long Mound footprint						
	4" inspection pipe						
	18" cover on top						
1	linelana harm 15						
lï	Downslope berm 15						
	12" cover on sides						
	(6" loamy cap & 6" topsoil)						
	3.0 Clean sand tift						
	0.0 Depth to Limiting						
	Limiting Condition						
	Absorption Width 34.0						
	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)							
	54.7 Jun + 54.7 downsland (47.9)						
	plus 20%						
35)	Loamy Cap:						
	36 ft. by 64 ft. 6" deep, plus 20% gives 51 yd or *1.4= 71 ton						
36)	Topsoil:						
	40 ft. by 68 ft. 6" deep, plus 20% gives 60 yd or *1.4= 84 ton						
	I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.						
	Designer Signature Brummer Septic LLC. L-1347 6/26/2018 Date						
	Company License# Date						

INSPECTOR CHECKLIST - mound 39388 318th Ln. 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 reg's, clean out every 100', Sch 40 pipe) Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping) 1000 gallons Effluent filter & alarm req'd 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) 520 gallons dose pump _ 27 18 head VERIFY PUMP CURVE gpm 2.6 min ON 5.2 hr OFF float setting drop 4.2 inches 16.6 gpi "DESIGNED" 3.1 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 Х 37.5 Sand lift depth 36 inches. (Jar test: 2" sand leaves < 1/8" silt after 30 min) Absorption Sand beyond rock 12.0 upslope 12.0 downslope Bermed topsoil beyond rockbed 15 upslope 15 sideslope 15 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



		Elv. 94.7	
Soil Bore 1 97.5/8"	Nail on Tree = Bench Mark 100' Bench Mark 100'	Existing Grade	
Soil Bore 2 Soil Bore 3	Ground Elv. BM 99.9'	Grade at mound Elv=100.6 Bottom of Existing Rockbed = 98.6	
Ground at sewer pipe	Ground Elv. Tank 100.5' near house 102.9'	Bottom of new rockbed Elv.= 100	

Please show all that apply (Existing)

Wells within 100ft. Of Drain field.

Water lines within 10 ft. of Drain field.

Drain field Areas:

Drain field Areas:

Please Draw to Scale with North to Top or Left Side of Page:

Access Route for Tank Maintenance

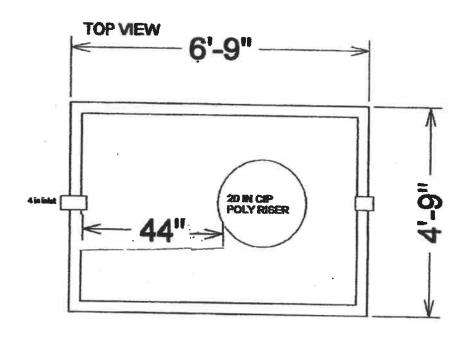
Property Lines

Structures

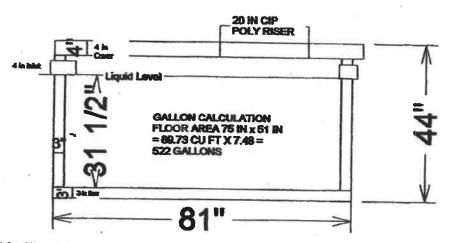
Lot Easements

Setbacks

520 Gallon Pump Tank



SIDE VIEW



522 gals. / 31.5" = 16.57 GPI

Drawings Owned BY Jacobson Precast, Inc. 36641 HWY 169, Aitkin, Mn 56431 DDo not copy drawings without permission of the Owner



Detailed Parcel Report

Parcel Number: 24-0-035800

General Information

Township/City:

NORDLAND TWP

Taxpayer Name:

JORGENSON, RUTH

Taxpayer Address:

516 HIDDENVIEW ROAD

CARLTON MN 55718

Property Address:

39388 318th Ln

Township:

46

Lake Number:

1014600

Range:

26

Lake Name:

RIPPLE LAKE (NORDLAND TWP)

Section:

18

Acres:

4.00

Green Acres:

No

School District:

1.00

Plat:

Brief Legal Description:

W 660 FT OF NW NE LESS 40 X 200 FT & PART OF LOT 5 S OF TRACT LESS 40 X200

FT E OF CREEK IN DOC 186512

Tax Information

Class Code 1:

Non-Comm Seasonal Residential Recreational

Class Code 2:

Unclassified

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2018

Estimated Land Value:

\$134,200.00

Estimated Building Value:

\$98,900.00

Estimated Total Value:

\$233,100.00

Prior Year Total Taxable Value:

\$212,900.00

Current Year Net Tax (Specials Not Included):

\$1,776.00

Total Special Assessments:

\$0.00

**Current Year Balance Not Including Penalty:

\$888.00

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

928D—Cushing-Mahtomedi complex, 10 to 25 percent slopes

Map Unit Setting

National map unit symbol: gjk5 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

Cushing and similar soils: 45 percent Mahtomedi and similar soils: 40 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Cushing

Setting

Landform: Moraines

Landform position (two-dimensional): Shoulder, backslope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy till

Typical profile

E - 0 to 7 inches: loam B/E - 7 to 17 inches: loam Bt - 17 to 30 inches: loam C - 30 to 60 inches: loam

Properties and qualities

Slope: 10 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 high (0.20 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: 10 percent Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Forage suitability group: Sloping; Fine Texture (G090AN023MN)

Hydric soil rating: No