## ZIERKE SOIL TESTING

Rick Regnier 21980 Parrish Rd N Scandia, MN 55073

12/2/2020

Dear Rick Regnier,

At your request, I have conducted a septic inspection to determine the compliance status of your system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, your system is <u>compliant</u>. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346

EMAIL benzierke@gmail.com



520 Lafayette Road North St. Paul, MN 55155-4194

## **Compliance Inspection Form**

**Existing Subsurface Sewage Treatment Systems (SSTS)** 

Doc Type: Compliance and Enforcement

	esota Pollution Control Agency (MPCA) dditional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local U within 15 days	Init of Government (LUG) and system owner	
System Status		
System status on date (mm/	dd/yyyy): 12/2/2020	
Compliant − Certification     (Valid for 3 years from report of frame outlined in Local Ordination)	late, unless shorter time (See Upgra	npliant – Notice of Noncompliance ade Requirements on page 3.)
☐ Impact on Public Health ☐ Other Compliance Cond ☐ Tank Integrity (Compliand ☐ Other Compliance Cond ☐ Soil Separation (Compliand	Ance (check all applicable)  (Compliance Component #1) – Imminent threat ditions (Compliance Component #3) – Imminent ance Component #2) – Failing to protect grounds ditions (Compliance Component #3) – Failing to fance Component #4) – Failing to protect ground oring plan requirements (Compliance Component	threat to public health and safety water protect groundwater dwater
Property Information	D   1D# as C. a   T. wall	1402220420001
Property Information		Range:1403220120001 on for inspection: Sale
Property address: 21980 Parrish I		r's phone: regquarter@yahoo.com
Property owner: Rick Regnier or	Owne	regquarter@yarioo.com
Owner's representative:	Repre	esentative phone:
	ington County Regul	latory authority phone: 651-430-6655
Brief system description: Pre cas	st 1250 gallon septic tank, gravity rock trench dr	ainfield
Comments or recommendations:		
	n in 2015. During site visit and pumping 11/30// er to limit use of antibacterial soaps and bleach	
Certification		
determination of future system perfe	y information has been gathered to determine t ormance has been nor can be made due to unk equate maintenance, or future water usage.	he compliance status of this system. No nown conditions during system construction,
Inspector name: Benjamin Zierke	Certif	ication number: C9594
Business name: Zierke Soil Testi	ng L	icense number: L119
Inspector signature:	>	Phone number: 651-249-1346
Necessary or Locally Requ	uired Attachments	
Soil boring logs	System/As-built drawing	per local ordinance
1	vious Soil Observations	

1.	lmp	pact on Public Health – C	ompliance componer	nt #1 of 5				
	Cor	npliance criteria:		Verification method(s):				
	Sys	tem discharges sewage to the und surface.	☐ Yes ⊠ No	<ul> <li>☑ Searched for surface outlet</li> <li>☑ Searched for seeping in yard/backup in home</li> </ul>				
	Sys	tem discharges sewage to drain	☐ Yes ⊠ No	<ul> <li>☐ Excessive ponding in soil system/D-boxes</li> <li>☐ Homeowner testimony (See Comments/Explanation)</li> </ul>				
-	Sys	tem causes sewage backup into	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system				
Any "yes" answer above indicates the system is an imminent threat to public health and safety.				<ul> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>				
Comments/Explanation:  Rick has not had any past issues with the system. Probed system area and did not encounter any saturated trenche signs of seepage or saturation visible at ground surface.  2. Tank Integrity — Compliance component #2 of 5								
	Co	mpliance criteria:		Verification method(s):				
		tem consists of a seepage pit, spool, drywell, or leaching pit.	☐ Yes ⊠ No	☐ Probed tank(s) bottom ☐ Examined construction records				
		page pits meeting 7080.2550 may be pliant if allowed in local ordinance.		☐ Examined Tank Integrity Form (Attach)				
	des	vage tank(s) leak below their igned operating depth. es, which sewage tank(s) leaks:	☐ Yes ⊠ No	<ul> <li>☐ Observed liquid level below operating depth</li> <li>☑ Examined empty (pumped) tanks(s)</li> <li>☐ Probed outside tank(s) for "black soil"</li> </ul>				
	An	y "yes" answer above indi- stem is failing to protect gr		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
Comments/Explanation:  Present for pumping by Smilie's Sewer 11/30/2020. Lowered camera into septic tank and confirmed tank integrity. In was covered in roots - Smilie's made a follow up visit to remove the roots. Roots should be monitored at future maint visits and removed as necessary.  3. Other Compliance Conditions — Compliance component #3 of 5								
	a.	Maintenance hole covers are dama	aged, cracked, unsecured,	or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown				
	b.	Other issues (electrical hazards, etc.) *System is an imminent threat to						
		Explain:						
	c. System is non-protective of ground water for other conditions as determined by inspector . ☐ Yes* ☐ No *System is failing to protect groundwater.							
		Explain:						

Property address: 21980 Parrish Rd N Scandia, MN 55073

Inspector initials/Date: BZ | 12/2/2020

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Property address: 21980 Parrish Rd N Scandi	a, MN 55073	Inspector initials/Date: I	3Z   12/2/2020	
-	-		(mm/dd/yyyy)	
4 Soil Comprehies Compliance				
4. Soil Separation - Compliance co	O			
Date of installation: 1983 (mm/dd/yyyy)	Unknown	Verification method(s):		
Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes  ☐ No	Soil observation does not expire. Pre observations by two independent pa- unless site conditions have been alte	rties are sufficient,	
Compliance criteria:		requirements differ.		
For systems built prior to April 1, 1996, and	⊠ Yes □ No	☐ Conducted soil observation(s) (Attach boring logs)		
not located in Shoreland or Wellhead Protection Area or not serving a food,		☐ Two previous verifications (Attach boring logs)		
beverage or lodging establishment:		☐ Not applicable (Holding tank(s), no	drainfield)	
Drainfield has at least a two-foot vertical		☐ Unable to verify (See Comments/E)	xplanation)	
separation distance from periodically saturated soil or bedrock.		Other (See Comments/Explanation)		
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	☐ Yes ☐ No	Comments/Explanation:		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths or elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector		A. Bottom of distribution media	36"	
License required)		B. Periodically saturated soil/bedrock	66"+	
Drainfield meets the designed vertical		C. System separation	30"+	
separation distance from periodically saturated soil or bedrock.		-		
		D. Required compliance separation*	24"	
Any "no" answer above indicates to failing to protect groundwater.	the system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local	
5. Operating Permit and Nitroger	n BMP* – Complia	ance component #5 of 5	lot applicable	
Is the system operated under an Operating	g Permit?	es 🗌 No If "yes", A below is requir	red	
Is the system required to employ a Nitroge	en BMP?	es 🗌 No If "yes", B below is requir	red	
BMP = Best Management Practice(s)	specified in the system	m design		
If the answer to both questions is "				
a. Operating Permit number:	1,000			
a. Operating Permit number:     Have the Operating Permit requirem	☐ Yes ☐ No			
		ning? \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
<ul> <li>b. Is the required nitrogen BMP in place</li> </ul>	ning?			

Any "no" answer indicates Noncompliance.

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

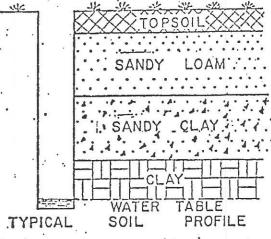
TTY 651-282-5332 or 800-657-3864 • Available in alternative formats www.pca.state.mn.us • 651-296-6300 • 800-657-3864 Page 3 of 3 reliable ground water levels. In clay soil, it is not possible to determine the ground water level within the normal scope of a test boring investigation, accept where lenses or layers of more pervious waterboaring soil are present and then a long period of time may be necessary to reach equilibrium. Therefore, the position of the water level symbol for cobesive or mixed texture soils may not indicate the true level of the ground water table. The available water level information is given at the bottom of the log sheet.

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back lice, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



\* boning NO.1

\* NO Waterin Dening after 24hrs

\* No mottling

\* boning NO. Z \* No Water in \* boning after zahri

LOG OF SOIL

# boring NO.3

# No Wotar in

\* No monthing

BORINGS

\* horing NO.4

\* No Water in

boning after 29 hr

No MOTILING

	BORI	NG NO. I	BOR	NG NO. 2	BORI	NG NO. 3	BORIN	NG NO. 4
-	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
	0	dank Grayish Brown Siltel Loam Bank	0	dank Grayish BROWN Silt Loam -MI	0	dank Grayish BROWN SILT	. 0	BROWN SILT LOOM BOT-MI
	11/2	donk Yellowith BROWN SILT LOAM- STONEY	11/2	denk Brown Silt Loom CLIML	11/2	denk Yellowish BROWN SILT LDAM CLISM-Mt denk BROWN	11/2	dank Yallowis Brown Silt Loom
	2 · 21/2 3	Raddish Brown	21/2	Raddish Brown Loan-stoney	2 21/2 3	Silt LOAM CL SM-ML	21/2	Raddish Brows Loam Stoney
	.31/2	Loam - STONEY	3 1/2	Sm-SC	31/2	Loam- STONEY	31/2	LDam. SID.
	41/2	Reddish Brown	41/2	Raddish BROWN	41/2	Raddish BROWN	41/2	Raddish Brown
	51/2 6	Loemy Send.	5 1/2	Loamy Sand	51/2 6	Sandy Loam	51/2 6	Sandy Loam
	61/2		61/2		61/2 7		61/2	
	71/2	sm-sp	71/2	Shu- 215	71/2	. 5P-sm	71/2	ME-92

## WATER LEVEL

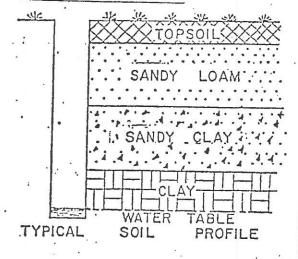
Water lovels shown on the boring logs are the levels measured in the borings at the time and under the conditions indicated. In sand, the indicated levels can be considered reliable ground water levels. In clay soil, it is not possible to determine the ground water level within the normal scope of a test boring investigation, uxcept where lenses or layers of more pervious waterbarring soil are present and then a long period of time may be necessary to reach equilibrium. Therefore, the position of the water level symbol for cohesive or mixed texture soils may not indicate the true level of the ground water table. The available water level information is given at the bottom of the log sheet.

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



- boning NO.5
- No Water in boning
- NO MOTTLING

## OF SOIL BORINGS

BOR	ING NO. 5	BOR	ING NO. 2	BORI	NG NO. 3	BORIN	VG NO. 4
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0   1/2   1	dank grayik Brown Sily Loo Cl-9m dank Yillowish Brown Sily Loo	. 0 1/2		0 1/2		1/2	
2 . 21/2	Reddish Brown Silt Loam-STOP	11/2		2 1/2	•	2 21/2	
3 . 31/2	Reddish Brown	3 3 1/2		3 3 1/2		3 3 31/2	
41/2	Soudy Loom	4 4 1/2 5	•	4 4 1/2 5		4 4 1 / 2 5	
6 61/2	.	5 1/2 6 6 1/2		51/2 6 61/2		51/2	
· 7		7	.	7	. }	61/2	

