## ZIERKE SOIL TESTING

Carol Swanson 20353 Jewel Ave N Forest Lake, MN 55025

October 14th, 2019

Dear Carol Swanson,

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>non-compliant</u> due to a lack of vertical separation between the bottom of your drain field and layers of rock that exceed 50% of the soil profile (bedrock). Therefore, this system is considered "failing to protect groundwater" and <u>is not considered an imminent threat to public health</u>. I am required to provide copies of this report to you and to your local unit of government (Washington County). You should contact them as to the next steps that will be required to bring the system into compliance.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE EMAIL

651-249-1346 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

Inspection results based on Minnesota Pollution Control Agency (I requirements and attached forms – additional local requirements may Submit completed form to Local Unit of Government (LUG) and within 15 days	also apply.
System Status	
System status on date (mm/dd/yyyy): 10/14/2019	
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)	Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3.)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) –  Other Compliance Conditions (Compliance Component  Tank Integrity (Compliance Component #2) – Failing to  Other Compliance Conditions (Compliance Component  Soil Separation (Compliance Component #4) – Failing to  Operating permit/monitoring plan requirements (Compliance Component	#3) – Imminent threat to public health and safety protect groundwater #3) – Failing to protect groundwater p protect groundwater
D	
	# or Sec/Twp/Range: 2403221320010
Property address: 20353 Jewel Ave N Forest Lake, MN 55025	Reason for inspection: Sale
Property owner: Carol Swanson	Owner's phone:carolswan121212@gmail.com
Owner's representative: Amy Foss	Representative phone: 651-261-1597
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-6655
	1000 gallon pre-cast lift station, drop box rock trench drainfield
Comments or recommendations:	1000 ganore pro odde int blattori, arop box rook tronger aranimore
Certification	
I hereby certify that all the necessary information has been gathered determination of future system performance has been nor can be made possible abuse of the system, inadequate maintenance, or future was	ade due to unknown conditions during system construction,
Inspector name: Benjamin Zierke	Certification number: C9594
Business name: Zierke Soil Testing	License number: L119
Inspector signature:	Phone number: 651-249-1346
<b>Necessary or Locally Required Attachments</b>	
<ul> <li>Soil boring logs</li> <li>System/As-built drawing</li> <li>□ Other information (list):</li> </ul>	Forms per local ordinance
head	

	**************************************		(mm/dd/yyyy)			
1.	Impact on Public Health - Co	ompliance compo	onent #1 of 5			
	Compliance criteria:		Verification method(s):			
	System discharges sewage to the ground surface.	☐ Yes ⊠ No	<ul> <li>☑ Searched for surface outlet</li> <li>☑ Searched for seeping in yard/backup in home</li> </ul>			
	System discharges sewage to drain tile or surface waters.	☐ Yes ⊠ No	☐ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation)			
	System causes sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping			
	Any "yes" answer above indicates the system is an imminent threat to public health and safety.		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
2.	Comments/Explanation: Carol has not had any issues with the s  Tank Integrity — Compliance of	=	oonding/backup during site visit 10/3/2019.			
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☐ Probed tank(s) bottom ☐ Examined construction records			
,	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)			
	Sewage tank(s) leak below their designed operating depth.  If yes, which sewage tank(s) leaks:	☐ Yes ⊠ No	☐ Observed liquid level below operating depth ☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil"			
	Any "yes" answer above indic system is failing to protect gr		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>			
	Comments/Explanation: Tanks pumped and OK'ed by Ross's S	ewer 9/30/2019.				
3.	Other Compliance Condition	s – Compliance co	emponent #3 of 5			
	a. Maintenance hole covers are dama	ged, cracked, unsecu	ired, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b. Other issues (electrical hazards, etc.) *System is an imminent threat to		dversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown afety.			
	Explain:					
	c. System is non-protective of ground *System is failing to protect ground		tions as determined by inspector .   Yes*   No			
	Explain:					

Property address: 20353 Jewel Ave N Forest Lake, MN 55025

Inspector initials/Date: BZ | 10/14/2019

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Property address: 20353 Jewel Ave N Forest L	.ake, MN 55025		Inspector initials/Date:	BZ   10/14/2019 (mm/dd/yyyy)	
				(IIIIII Garyyyy)	
4. Soil Separation - Compliance co	mponent #4 of 5				
Date of installation: 7/30/2001	Unknown	Verifi	cation method(s):		
(mm/dd/yyyy)  Shoreland/Wellhead protection/Food beverage lodging?  Compliance criteria:	☐ Yes ⊠ No	Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local 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		☐ Two previous verifications (Attach boring logs)			
Protection Area or not serving a food, beverage or lodging establishment:		☐ Not applicable (Holding tank(s), no drainfield)			
Drainfield has at least a two-foot vertical		☐ Unable to verify (See Comments/Explanation)			
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	Comm	nents/Explanation:		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indica	ate depths or elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.			tom of distribution media	97.6'	
2350 or 7080.2400 (Advanced Inspector		71. 500	on or distribution modic		
License required)		B. Per	iodically saturated soil/bedrock	99.7'	
Drainfield meets the designed vertical separation distance from periodically		C. Sys	tem separation	-3.1'	
saturated soil or bedrock.		D Rec	uired compliance separation*	3.0'	
Any "no" answer above indicates the system is failing to protect groundwater.		D. Required compliance separation* 3.0'  *May be reduced up to 15 percent if allowed by Local Ordinance.			
	PMD* Complian		anonont HE of E	let emplies ble	
5. Operating Permit and Nitrogen	The Control of the Co	NAMES OF TAXABLE PARTY.		lot applicable	
Is the system operated under an Operating			If "yes", A below is requir		
Is the system required to employ a Nitroger	2000/14 (1770m) 0127		☐ No If "yes", B below is required		
BMP = Best Management Practice(s) s	specified in the system o	design			
If the answer to both questions is "n	o", this section doe	s not n	need to be completed.		
Compliance criteria					
a. Operating Permit number:					
Have the Operating Permit requireme	nts been met?		Yes No		

Any "no" answer indicates Noncompliance.

b. Is the required nitrogen BMP in place and properly functioning?

**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.

☐ Yes ☐ No

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## **Logs of Soil Borings**

Location of Project:

20353 Jewel Ave N Forest Lake, MN 55025

Borings Made by Ben Zierke

Date:

10/3/2019

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

		ONLY THE OWNER OF THE OWNER OW	
Depth, in Inches 0	Boring Number 1	Depth, in Inches 0	Boring Number 2
*****	SOIL PIT FOR OBSERVATION		
0-4"	10YR 3/3 loamy sand		
4-60"	10YR 5/4 coarse sand with 7.5YR 4/6 coarse sand bands, 60% rock fragments (measured via sieve test)		
60-66"	10YR 5/2 clay loam		
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments;	feet of depth Hours after boring oresent in hole 5 feet of depth	End of boring at Standing water tabl Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole feet of depth
D 11			
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
Inches 0		Inches 0	
	feet le: feet of depth Hours after boring resent in hole	Inches	feet le: feet of depth Hours after boring resent in hole

