ZIERKE SOIL TESTING

Mike Sullivan 10025 Indigo Trl N White Bear Lake, MN 55110

8/27/2019

Dear Mike Sullivan,

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. <u>I do strongly recommend replacing the septic tank baffles that are no longer functional</u>. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

Benjamin Zierke

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

Inonaction regults have den Minnaceta Balletian Control Areas (MDCA)	For local tracking purposes:
Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply	
Submit completed form to Local Unit of Government (LUG) and system of within 15 days	owner
System Status	
System status on date (mm/dd/yyyy): 8/27/2019	
	acompliant – Notice of Noncompliance Upgrade Requirements on page 3.)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent Other Compliance Conditions (Compliance Component #3) – Imm Tank Integrity (Compliance Component #2) – Failing to protect gr Other Compliance Conditions (Compliance Component #3) – Fail Soil Separation (Compliance Component #4) – Failing to protect gr Operating permit/monitoring plan requirements (Compliance Comp	ninent threat to public health and safety oundwater ling to protect groundwater groundwater
Property Information Parcel ID# or Sec/	Twp/Range:
Property address: 10025 Indigo Trail White Bear Lake, MN 55110	Reason for inspection: Sale
Property owner: Mike Sullivan	Owner's phone: 651-983-4812
or	
	Representative phone:
	Regulatory authority phone: 651-430-6655
Brief system description: 1200 gallon septic tank, gravity rock trench drains Comments or recommendations:	liciu
Tank baffles need to be replaced - both baffles were off during site visit 8/9/20 possible, as lack of baffles can lead to premature system failure.	019. Strongly recommend doing this as soon as
Certification	
I hereby certify that all the necessary information has been gathered to determination of future system performance has been nor can be made due to possible abuse of the system, inadequate maintenance, or future water usage	o 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
Necessary or Locally Required Attachments	
Soil boring logs	orms per local ordinance
Other information (list):	

Impact on Public Health - (`omnliance comnon	(mm/dd/yyyy)
	compliance compon	Verification method(s):
System discharges sewage to the ground surface.	☐ Yes ☒ No	 ☑ Searched for surface outlet ☑ Searched for seeping in yard/backup in home
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
		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
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) ☐ Observed liquid level below operating depth
Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	 ☑ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil"
Any "yes" answer above ind		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
b. Other issues (electrical hazards, etc.) to immediately and adve	ersely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown
Explain:		
		ns as determined by inspector . ☐ Yes* ☒ No
	System discharges sewage to the ground surface. System discharges sewage to drain tile or surface waters. System causes sewage backup into dwelling or establishment. Any "yes" answer above indisystem is an imminent threat health and safety. Comments/Explanation: No signs of ponding on leakage observable of the compliance criteria: System consists of a seepage pit, cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance. Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks: Any "yes" answer above indisystem is failing to protect ground system is failing to protect ground the covers are damed by the compliance condition. Present for pumping by Smilies Sewer is an imminent threat the Explain: c. System is non-protective of ground "System is failing to protect ground to protect ground to protect ground the covers are damed by the compliance conditions and imminent threat the Explain:	System discharges sewage to the ground surface. System discharges sewage to drain tile or surface waters. System causes sewage backup into dwelling or establishment. Any "yes" answer above indicates the system is an imminent threat to public health and safety. Comments/Explanation: No signs of ponding on leakage observed 8/27/2019. Tank Integrity — Compliance component #2 of 5 Compliance criteria: System consists of a seepage pit, cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance. Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks: Any "yes" answer above indicates the system is failing to protect groundwater. Comments/Explanation: Present for pumping by Smilies Sewer 8/9/2019. Tank in water system is non-protective of ground water for other conditions "System is non-protective of ground water for other conditions" System is non-protective of groundwater.

Property address: 10025 Indigo Trail White Bear Lake, MN 55110

Inspector initials/Date: BZ | 8/27/2019

TTY 651-282-5332 or 800-657-3864 • Available in alternative formats www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • Page 2 of 3 wq-wwists4-31b • 6/4/14

Property address: 10025 Indigo Trail White Be	ar Lake, MN 55110	Inspector initials/Date: E	BZ 8/27/2019	
	And the state of t		(mm/dd/yyyy)	
4. Soil Separation — Compliance co	omponent #4 of 5			
Date of installation: 10/21/1987	Unknown	Verification method(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria:	☐ Yes ⊠ No	Soil observation does not expire. Pre observations by two independent par unless site conditions have been alte requirements differ.	rties are sufficient,	
	⊠ Yes □ No			
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food,		Conducted soil observation(s) (Attach boring logs)		
		☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield)		
beverage or lodging establishment:				
Drainfield has at least a two-foot vertical separation distance from periodically		Unable to verify (See Comments/Ex	piariauori)	
saturated soil or bedrock.		Other (See Comments/Explanation)		
Non-performance systems built April 1,	☐ Yes ☐ No	Comments/Explanation:		
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Boring logs from lot split and original with Washington County.	ng logs from lot split and original design also on file Washington County.	
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.		A. Bottom of distribution media	97.1'	
2350 or 7080.2400 (Advanced Inspector License required)			05.01	
Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock	95.0'	
separation distance from periodically		C. System separation	2.1'+	
saturated soil or bedrock.		D. Required compliance separation*	2.0'	
Any "no" answer above indicates the	he system is	*May be reduced up to 15 percent if	allowed by Local	
failing to protect groundwater.		Ordinance.		
5. Operating Permit and Nitrogen	BMP* - Complian	ce component #5 of 5	ot applicable	
Is the system operated under an Operating	Permit?	☐ No If "yes", A below is require	ed	
Is the system required to employ a Nitroger	n BMP? ☐ Yes	☐ No If "yes", B below is require	ed	
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 need to be completed.		
Compliance criteria	5			
a. Operating Permit number:				
Have the Operating Permit requireme	nts been met?	☐ Yes ☐ No		
b. Is the required nitrogen BMP in place	g? Yes No			
Any "no" answer indicates Nonc	ompliance.			

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.

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Logs of Soil Borings

Location of Project:

10025 Indigo Trl White Bear Lake, MN 55110

Borings Made by Ben Zierke

Date:

8/9/2019

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

Observed at feet of depth Mottled soil not present in bore hole Comments: Depth, in Inches O	Denth in			
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10/R 3/3 loamy sand 0-10% coarse fragments 10/R 4/3 loamy sand 10-15% coarse fragments 10/R 4/4 loamy sand 25-30% coarse fragments 10/R 4/4 loamy sand 2		Boring Number 1		Boring Number 2
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