ZIERKE SOIL TESTING

Brian Novitch 10670 St Croix Trl N Stillwater, MN 55082

6/4/2020

Dear Brian Novitch,

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

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:					
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	r					
System Status						
System status on date (mm/dd/yyyy): 6/4/2020						
	mpliant – Notice of Noncompliance rade Requirements on page 3.)					
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety Tank Integrity (Compliance Component #2) – Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater Soil Separation (Compliance Component #4) – Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant						
Property Information Parcel ID# or Sec/Twp/F	Panga:					
	on for inspection: Sale er's phone: 651-439-2007					
Property owner: Brian Novitch Owne	er's priorie					
	esentative phone:					
	latory authority phone: 651-430-6655					
Brief system description: Pre cast 1500 gallon septic tank, split 1500 tank with li	-					
Comments or recommendations: System has met expected lifespan for gravelless trenches. No guarantee of future s	system function has been made.					
Certification						
I hereby certify that all the necessary information has been gathered to determine to determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.						
Inspector name: Benjamin Zierke Certif	fication number: C9594					
Business name: Zierke Soil Testing L	icense number: L119					
Inspector signature:	Phone number: 651-249-1346					
Necessary or Locally Required Attachments						
☑ Soil boring logs☑ System/As-built drawing☐ Other information (list):	per local ordinance					

Property	address: 10670 St Croix Trl N Still	water, MN 55082		4/2020
			(r	nm/dd/yyyy)
1 lm	pact on Public Health – C	ompliance compor	pent #1 of 5	
		ompliance compoi		A STATE OF THE STA
Co	ompliance criteria:		Verification method(s):	
	stem discharges sewage to the	☐ Yes ⊠ No	Searched for surface outlet	
gro	ound surface.		⊠ Searched for seeping in yard/backup in	
	stem discharges sewage to drain	☐ Yes ⊠ No	☐ Excessive ponding in soil system/D-box	
tile	or surface waters.		☐ Homeowner testimony (See Comments/Ex	xplanation)
	stem causes sewage backup into relling or establishment.	☐ Yes ☒ No	☐ "Black soil" above soil dispersal system☐ System requires "emergency" pumping	
Δ,	ny "yes" answer above indi	cates the	Performed dye test	
	stem is an imminent threat		☐ Unable to verify (See Comments/Explanati	ion)
_	health and safety.		Other methods not listed (See Comments	
***************************************			U Other methods not listed (see comments	LAPIAHAUOH
	omments/Explanation:	avatam. Na aigna of aa	epage or ponding during site visit 6/2/2020.	
DII	ian has not had any issues with the	system. No signs of se	epage of portuing during site visit 0/2/2020.	
2 T-	ank Integrity Compliance	component #2 of E		
Warner	ank Integrity - Compliance	component #2 of 5	Verification method(s):	
	ompliance criteria:			
	stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes ⊠ No	Probed tank(s) bottom	
		w 11	Examined construction records	
	epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)	
	ewage tank(s) leak below their	☐ Yes ⊠ No	Observed liquid level below operating d	epth
	esigned operating depth.			
	yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"	
Δ	ny "yes" answer above indi	cates the	☐ Unable to verify (See Comments/Explanate	
	stem is failing to protect g		Other methods not listed (See Comments	s/Explanation)
	omments/Explanation: esent for pumping by Smilies Sewe	6/2/2020 Tanks wate	rtight and haffles in place	
PI	esent for pumping by Similes Sewe	0/2/2020. Taliks wate	riight and bames in place.	
3. Of	ther Compliance Condition	ns – Compliance con	nponent #3 of 5	
a.	Maintenance hole covers are dama	aged, cracked, unsecure	ed, or appear to be structurally unsound. 🔲 Yes* 🗵	No 🗌 Unknow
b.	Other issues (electrical hazards, etc.) *System is an imminent threat to			No ☐ Unknow
	Explain:			
	Е ДРІСІІ І			
		locate for the second	and a determined by the market and the total of the total	
C.	System is non-protective of ground *System is failing to protect ground		ons as determined by inspector . Yes* No	
	Explain:			
	EAPIGIII.			

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

Property address: 10670 St Croix Trl N Stillwater, MN 55082		Inspector initials/Date:	BZ 6/4/2020		
			(mm/dd/yyyy)		
4 Soil Conservation Counties					
4. Soil Separation — Compliance of	omponent #4 of 5				
Date of installation: 8/10/1998 (mm/dd/yyyy)	Unknown	Verification method(s):			
Shoreland/Wellhead protection/Food beverage lodging?	☐ 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.			
Compliance criteria:					
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ Yes ☐ No	☐ Conducted soil observation(s) (A			
Protection Area or not serving a food, beverage or lodging establishment:		☐ Two previous verifications (Attack	1000 X		
		☐ Not applicable (Holding tank(s), no drainfield)			
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		☐ Unable to verify (See Comments/E ☐ 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" systems built under pre-2008 Rules; Type IV	☐ Yes ☐ No	Indicate depths or elevations			
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector		A. Bottom of distribution media	97.6'		
License required)		B. Periodically saturated soil/bedrock	94.5'+		
Drainfield meets the designed vertical separation distance from periodically		C. System separation	3.1'		
saturated soil or bedrock.		D. Required compliance separation*	3.0'		
*May be reduced up to 15 percent if allowed by Ordinance. *May be reduced up to 15 percent if allowed by Ordinance. *Description of 5 Not application of 5 in the property of 5					
Is the system operated under an Operating	Permit?	☐ No If "yes", A below is require	red		
Is the system required to employ a Nitroge		☐ No If "yes", B below is requir			
BMP = Best Management Practice(s)					
If the answer to both questions is "i	-	-			
Compliance criteria					
Operating Permit number: Have the Operating Permit requirement	☐ Yes ☐ No				
b. Is the required nitrogen BMP in place	ng?				
Any "no" answer indicates Noncompliance.					
2 , a	omphanoc.		11		
Upgrade Requirements (Minn. Stat. § 115.55 discontinued within ten months of receipt of this ground water, the system must be upgraded, rej is not failing as defined in law, and has at least tits use discontinued, notwithstanding any local c Wellhead Protection Areas, or those used in cor	notice or within a shorter polaced, or its use disconting wo feet of design soil separationance that is more stric	neriod if required by local ordinance. If the some within the time required by local ordinal aration, then the system need not be upgract. This provision does not apply to systems	ystem is failing to protect nce. If an existing system ded, repaired, replaced, or in shoreland areas,		

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



Logs of Soil Borings

Location of Project:

10670 St Croix Trail N Stillwater, MN 55082

Borings Made by Ben Zierke

Date:

6/2/2020

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

			S201 1 (S100) (S101) (S	
Depth, in	Boring Number 1	Depth, in Inches	Boring Number 2	
O O-19"	10YR 2/2 loam, 0% rock	0		
19-35"	10YR 4/3 silt loam, 0% rock			
35-40"	10YR 4/.4 loamy sand, 21% rock			
40-66"	10YR 4/4 fine sand, 4% rock, no redox			
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Dbserved at Mottled soil not pres Comments:	feet of depth Hours after boring feet of depth feet of depth	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 feet of depth	ı.
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4	
0		0		
End of boring at Standing water tak		End of boring at Standing water tab	feet ole:	
Present at Standing water not p Mottled Soil: Observed at	feet of depth Hours after boring	Present at Standing water not p Mottled Soil: Observed at	feet of depth Hours after boring	
Mottled soil not pre Comments:	sent in bore hole	Mottled soil not pres Comments:	sent in bore hole	