ZIERKE SOIL TESTING

Jeff Bates 11835 Isleton Ave N Stillwater, MN 55084

7/2/2019

Dear Jeff Bates,

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. Proper care and maintenance of the system can prolong lifespan – see https://septic.umn.edu/septic-system-owners for more information. 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

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also app Submit completed form to Local Unit of Government (LUG) and system within 15 days	
System Status	
System status on date (mm/dd/yyyy): 7/2/2019	
	ncompliant – Notice of Noncompliance e 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) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect good Other Compliance Conditions (Compliance Component #3) – Failing to protect Soil Separation (Compliance Component #4) – Failing to protect Operating permit/monitoring plan requirements (Compliance Component #4)	minent threat to public health and safety roundwater iling to protect groundwater groundwater
Property Information Parcel ID# or Sec.	Twp/Range:
Property address: 11835 Isleton Ave N Stillwater, MN 55082	Reason for inspection: Sale
Property owner:Jeff Bates	Owner's phone: 651-245-1398
or	
Owner's representative:	Representative phone:
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-6655
Brief system description: 1500 gallon septic tank. 1000 gallon septic tank, Comments or recommendations:	1000 gallon lift station, mound dispersal system
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	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
Necessary or Locally Required Attachments	
☑ Soil boring logs☑ System/As-built drawing☐ P☐ Other information (list):	orms per local ordinance

: XXXX 2 XXX 2 XXX			(mm/dd/yyyy)		
1.	Impact on Public Health - C	Compliance compo	onent #1 of 5		
	Compliance criteria:		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		
_	Any "yes" answer above indicates the system is an imminent threat to public realth and safety.		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
	Comments/Explanation:				
	Jeff did not report any issues with the 6/27/2019.	system - did not obser	rve any signs of past leakage or ponding during site visit		
	0/2//2013.				
2	Tank Integrity Compliance	component #2 of	5		
۷.	Tank Integrity – Compliance	component #2 or :			
1	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		Examined Constitution records Examined Tank Integrity Form (Attach)		
,	compliant if allowed in local ordinance.		☐ Observed liquid level below operating depth		
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No			
	If yes, which sewage tank(s) leaks:		☐ 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) 		
,	system is failing to protect g	roundwater.			
	Comments/Explanation: Tanks pumped 6/27/2019 by Smilies.	Tanks and haffles an	good condition		
	ranks pumped 0/2/1/2010 by Offinies.	Tanks and bannes wit	good condition.		
3.	Other Compliance Condition	ns – Compliance co	mponent #3 of 5		
	Maintenance hole covers are dam	aged, cracked, unsecu	red, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown *System is an imminent threat to public health and safety.				
	Explain:				
	c. System is non-protective of ground *System is failing to protect gro		ions as determined by inspector . ☐ Yes* ☐ No		
	Explain:				

Property address: 11835 Isleton Ave N Stillwater, MN 55082

Inspector initials/Date: BZ | 7/2/2019

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Property address: 11835 Isleton Ave N Stillwa	ter, MN 55082		Inspector initials/Date:	BZ 7/2/2019	
	A Committee			(mm/dd/yyyy)	
4. Soil Separation - Compliance co	omponent #4 of 5				
Date of installation: 2005	Unknown	Verific	cation method(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes ⊠ No	observ	servation does not expire. Pro ations by two independent pa site conditions have been alto	rties are sufficient,	
Compliance criteria:		require	ments differ.		
For systems built prior to April 1, 1996, and	☐ Yes ☐ No	⊠ Cor	nducted soil observation(s) (A	ttach boring logs)	
not located in Shoreland or Wellhead Protection Area or not serving a food,		☐ Two previous verifications (Attach boring logs)		n boring logs)	
beverage or lodging establishment:		☐ Not	applicable (Holding tank(s), no	drainfield)	
Drainfield has at least a two-foot vertical		☐ Una	☐ Unable to verify (See Comments/Explanation)		
separation distance from periodically saturated soil or bedrock.		☐ Oth	☐ 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	ents/Explanation:		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indica	te depths or elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.		A Bott	om of distribution media	101.3'	
2350 or 7080.2400 (Advanced Inspector					
License required)		B. Per	odically saturated soil/bedrock	97.3'	
Drainfield meets the designed vertical separation distance from periodically		C. Sys	tem separation	4.0'	
saturated soil or bedrock.		D Rec	uired compliance separation*	3.0'	
Any "no" answer above indicates t failing to protect groundwater.	he system is		e reduced up to 15 percent if		
5. Operating Permit and Nitroger	BMP* – Compliar	nce com	nponent #5 of 5	Not applicable	
Is the system operated under an Operating			If "yes", A below is requir		
Is the system required to employ a Nitroge		=	If "yes", B below is requir		
		-	ii yee , D below is lequil	· · ·	
BMP = Best Management Practice(s)	•	(.)			
If the answer to both questions is "i	no", this section do	es not n	eed to be completed.		
Compliance criteria		***************************************			
a. Operating Permit number:			☐ Yes ☐ No		
Have the Operating Permit requirement	ents been met?		☐ res ☐ 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:

11835 Isleton Ave N Stillwater, MN 55082

Borings Made by Ben Zierke

Date:

6/27/2019

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0		0	
0-18"	Mixed sandy fill and 10YR 3/3 loamy sand		
18-24"	10YR 4/3 loamy sand		
24-36"	10YR 5/4 loamy sand, redox present below 32"		
36-40"	10YR 4/6 loamy sand lamellae layer, slightly cemented		
End of boring at	3.3 feet	End of boring at	feet
Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres	feet of depth oresent in hole Hours after boring 2.7 feet of depth	Standing water table Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres	feet of depth Hours after boring resent in hole feet of depth
Comments:		Comments:	
Depth, in	Paving Number 2	Depth, in	Daving Number (
Depth, in	Boring Number 3	Depth, in	Boring Number 4
	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	Boring Number 3	Depth, in Inches	Boring Number 4
Depth, in	feet feet feet of depth present in hole feet of depth feet of depth	Depth, in Inches	feet le: feet of depth Hours after boring resent in hole

