ZIERKE SOIL TESTING

Bill Mellgren 8097 Morgan Ave Stillwater, MN 55082

5/9/2019

Dear Bill Mellgren,

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.

PHONE 651-249-1346

benzierke@gmail.com

EMAIL

Sincerely,

Benjamin Zierke

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013



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

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	For local tracking purposes:				
Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	r of local tracking purposes.				
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days					
System Status					
System status on date (mm/dd/yyyy): _5/9/2019					
	liant – Notice of Noncompliance 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/Rang	ge:				
B C STATE OF B BOTH BOTH BOTH BOTH BOTH BOTH BOTH BO	or inspection: Sale				
Property owner: Bill Mellgren Owner's	phone: 651-248-4406				
Owner's representative: Represer	ntative phone:				
	Regulatory authority phone: 651-430-6655				
Brief system description: 1250 gallon pre-cast septic tank, gravity rock trench draint					
Comments or recommendations: Borings taken 10/9/2018. Verified system function and tank operating levels 5/9/2019.					
Certification					
I hereby certify that all the necessary information has been gathered to determine the 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.	compliance status of this system. No vn conditions during system construction,				
Inspector name: Benjamin Zierke Certificat	ion number: C9594				
Business name: Zierke Soil Testing Licer	nse number: L119				
Inspector signature: Pho	one number: 651-249-1346				
Necessary or Locally Required Attachments					
	local ordinance				

1	Impact on Public Health — C	ompliance compon	(mm/dd/yyyy) ent #1 of 5		
	Compliance criteria:	omphanoe 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		
	Any "yes" answer above indicates the system is an imminent threat to public health and safety.		☐ System requires emergency pumping ☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
	Comments/Explanation: Bill did not report any issues with the s	system.			
2.	Tank Integrity – Compliance component #2 of 5		Varification mathead(s)		
	Compliance criteria:	□ Voc. ⊠ No.	Verification method(s): ☐ Probed tank(s) bottom		
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ☐ No	Examined construction records		
	Seepage pits meeting 7080.2550 may be		Examined Tank Integrity Form (Attach)		
8	compliant if allowed in local ordinance.		Observed liquid level below operating depth		
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)		
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"		
82	Any "yes" answer above indicates the system is failing to protect groundwater.		 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 		
2	Comments/Explanation: Tank in good condition last maintainal 5/9/2019. Next maintanance pumping Other Compliance Condition	due August 2020.	(see attached). Observed normal operating level and no issue		
٥.			ed, or appear to be structurally unsound. Yes* No Unkno		
	b. Other issues (electrical hazards, etc.) *System is an imminent threat to	to immediately and adv	ersely impact public health or safety.		
	c. System is non-protective of ground *System is failing to protect gro Explain:		ns as determined by inspector . ☐ Yes* ☑ No		

Property address: 8097 Morgan Ave N Stillwater, MN 55082

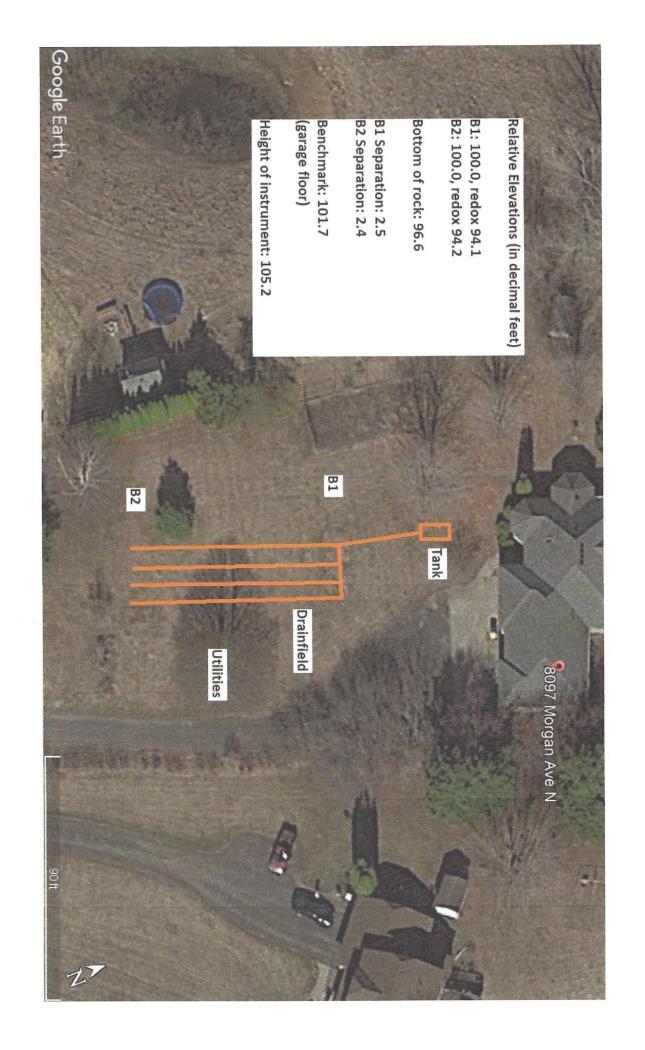
Inspector initials/Date: BZ | 5/9/2019

Property address: 8097 Morgan Ave N Stillwat	er, MN 55082		Inspector initials/Date: I	3Z 5/9/2019	
				(mm/dd/yyyy)	
4. Soil Separation - Compliance co	mpopent #4 of 5				
Date of installation: 8/20/1990	Unknown	2000	cation method(s):		
(mm/dd/yyyy)			servation does not expire. Pre	evious soil	
Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes ⊠ No	observ	ations by two independent pa site conditions have been alte	rties are sufficient,	
Compliance criteria:		require	ments differ.		
For systems built prior to April 1, 1996, and		□ Cor	ducted soil observation(s) (At	tach boring logs)	
not located in Shoreland or Wellhead Protection Area or not serving a food,		☐ Two	Two previous verifications (Attach boring logs)		
beverage or lodging establishment:		☐ Not	☐ Not applicable (Holding tank(s), no drainfield)		
Drainfield has at least a two-foot vertical		Una Una	☐ Unable to verify (See Comments/Explanation)		
separation distance from periodically saturated soil or bedrock.		☐ Oth	er (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	ite 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. Bott	om of distribution media	96.6'	
License required)		B. Peri	odically saturated soil/bedrock	94.2'	
Drainfield meets the designed vertical			tem separation	2.4'	
separation distance from periodically saturated soil or bedrock.				2.0'	
Any "no" answer above indicates the system is		*May b	D. Required compliance separation* 2.0' *May be reduced up to 15 percent if allowed by Local Ordinance.		
failing to protect groundwater.					
5. Operating Permit and Nitroger	n BMP* – Complia	ance com	ponent #5 of 5	Not applicable	
Is the system operated under an Operating	Permit?	es □ No	If "yes", A below is require	red	
Is the system required to employ a Nitroge		W.E. 8	If "yes", B below is require		
BMP = Best Management Practice(s)			* to the economistation of the economistatio		
If the answer to both questions is "I			need to be completed.		
Compliance criteria					
a. Operating Permit number:					
Have the Operating Permit requirement	ents been met?	2	☐ Yes ☐ No		
h Is the required nitrogen BMP in place	m2 0A 2000 M200	nina?	☐ Yes ☐ No		

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 651-296-6300 • 800-657-3864 www.pca.state.mn.us • Page 3 of 3 wg-wwists4-31b • 6/4/14



Logs of Soil Borings

Location of Project:

8097 Morgan Ave N Stillwater, MN 55082

Borings Made by Ben Zierke

Date:

10/9/2018

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

Depth, in Inches 0	Boring Number 1	Depth, in Inches 0	Boring Number 2	
0-12"	7.5YR 3/3 loam	0-12"	7.5YR 3/3 loam	
12-32"	7.5YR 4/4 loam	12-32"	7.5YR 4/4 loam	
32-36"	7.5YR 4/4 sandy loam	32-36"	7.5YR 4/4 sandy loam	
36-47"	10YR 4/4 coarse sand	36-44"	10YR 4/4 coarse sand	
47-76"	10YR 5/4 fine-very fine sand, faint redox below 71	44-76"	10YR 5/4 fine-very fine sand, faint redox below 70	
End of boring at 6.3 feet Standing water table: Present at feet of depth Hours after boring Standing water not present in hole Mottled Soil: Observed at 5.9 feet of depth Mottled soil not present in bore hole Comments:		End of boring at 6.3 teet Standing water table: Present at feet of depth Standing water not present in hole Mottled Soil: Observed at 5.8 feet of depth Mottled soil not present in bore hole Comments:		
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4	
O End of boring at	feet	End of boring at	feet	
Standing water tal Present at Standing water not Mottled Soil: Observed at Mottled soil not pro Comments:	feet of depth feet of depth feet of depth feet of depth	Standing water ta Present at Standing water not Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring present in hole feet of depth	

Septic Tank Maintenance

Reporting Form

Minnesota Pollution **Control Agency**

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

Date	of maintenance: <u>828</u>	Reason for	maintenance: Ruy	Mar maintenancy		
Date of maintenance: 828 17 Reason for maintenance: Regular Mainlanan (a Property address: 809 Mongan Alm City: 54 Hulliam State: 1/2 Zip: 55082						
Prop	erty owner's name: (191)	llam melgre	ν			
Prope	erty-owner's address if different.					
City:		State: ZIP:	Phone:	Fax:		
1.	Access used to remove septa	age: Maintenance hole	Other (Go to #3 below)			
2.	If maintenance hole was used, were all covers securely replaced? Yes \(\subseteq \text{No please explain} \)					
	Explanation:					
3.	If owner refuses to allow a Subsurface Sewage Treatment System (SSTS) to be pumped through the maintenance hole, have them complete and sign the following statement.					
		(owner's name), refuse to allow the				
	hole. I understand that removal	of solids and liquids through oth	er access points is not consider	ed maintenance.		
	Owner's signature:	y laterapain angalasi la salah mingulagan mengal mempulan dan dapama dadi makamanan melalah kelalan	Date:			
4.		ky tank? example: seepage pit,				
		Verification method used?				
		Verification method used?				
5.	Is there evidence of tank leak evidence of damaged, cracke	cage from a septic, holding, pro ed or structurally unsound mai	etreatment or pump tank belov intenance hole covers? I	w the operating depth or		
-	Tank	Leaking out	Leaking in	Cover damage		
	Septic/holding Tank #1	☐ Yes 🗵 No	☐ Yes ☒ No	☐ Yes 💆 No		
-	Septic/holding Tank #2	Yes No	Yes No	Yes No		
-	Pretreatment Tank	Yes No	Yes No	Yes No		
-	Pump Tank	Yes No	Yes No	Yes No		
6.	How many gallons of septage were removed? Tank #1: 1250 Tank #2: Pretreatment Tank: Pump Tank: No. 1 Pump T					
7.	is there any sensory (smell a	nd/or sight) evidence of non-d	lomestic wastes?			
	Yes Please explain:					
	,	☐ Wastewater treatment plant	Land application	Other please explain		
	Explanation:					
	Other information: List any trou	bleshooting, minor repairs condu	ucted, tank safety* concerns or o	ther concerns:		
8.	Certification: I hereby certification made the obs	y as a State of Minnesota-certific ervations, or directly supervised	ed SSTS Maintainer that I person others in the performance of this	nally conducted the work and s job.		
	Maintainer's name and address	s: Kow Sevent	- / Jim			
	Maintainer's license #:	3309/	Maintainer's phone:	1 465 5505		
	Maintainer's signature:	Herrs 1/1	Date:	828 7		
		-70				