

ZIERKE SOIL TESTING

Chad Banken
20801 Keewahtin Ave N
Forest Lake, MN 55025

1/28/2022

Dear Chad Banken,

At your request, I have conducted a septic inspection to determine the compliance status of your septic 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 septic system is compliant. 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

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

Property information

Local tracking number: _____

Parcel ID# or Sec/Twp/Range: 2403221120029 Reason for Inspection Sale
Local regulatory authority info: Washington County
Property address: 20801 Keewahin Ave N Forest Lake, MN 55025
Owner/representative: Chad Banken Owner's phone: 952-417-0000
Brief system description: 1250 gallon pre-cast septic tank, gravity rock trench drainfield

System status

System status on date (mm/dd/yyyy): 1/28/2022

Compliant – Certificate of compliance*

Noncompliant – Notice of noncompliance

(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

***Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

- Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
- Tank integrity (Compliance component #2) – *Failing to protect groundwater*
- Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
- Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
- System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
- Soil separation (Compliance component #5) – *Failing to protect groundwater*
- Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

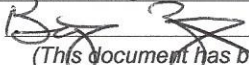
Comments or recommendations

Yard was frozen and snow covered at time of inspection. Soils verifications for this inspection consist of design borings and inspection borings from 2014.

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

By typing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Business name: Zierke Soil Testing Certification number: 9594
Inspector signature:  License number: 119
(This document has been electronically signed) Phone: 651-249-1346

Necessary or locally required supporting documentation (must be attached)

- Soil observation logs
- System/As-Built
- Locally required forms
- Tank Integrity Assessment
- Operating Permit
- Other information (list): _____

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Describe verification methods and results:

None of the above observed during site visit 1/21/2022. Chad did not report any knowledge of past issues with the drainfield.

Attached supporting documentation:

Other: _____
 Not applicable

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

Tank pumped and verified by Hassle Free Septic 1/17/2022. Next tank maintenance due January of 2025.

Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Hassle Free

License number of maintenance business: 3287

Date of maintenance: 1/17/2022

Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): 1/17/2022 (must be within three years)

(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))

Tank is Noncompliant (pumping not necessary – explain below)

Other: _____

3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?

Yes* No Unknown

3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety? Yes* No Unknown

***Yes to 3a or 3b - System is an imminent threat to public health and safety.**

3c. System is non-protective of ground water for other conditions as determined by inspector?

Yes* No

3d. System not abandoned in accordance with Minn. R. 7080.2500?

Yes* No

***Yes to 3c or 3d - System is failing to protect groundwater.**

Describe verification methods and results:

Attached supporting documentation: Not applicable

4. Operating permit and nitrogen BMP* – Compliance component #4 of 5 Not applicable

Is the system operated under an Operating Permit?

Yes No **If “yes”, A below is required**

Is the system required to employ a Nitrogen BMP specified in the system design? Yes No

If “yes”, B below is required

BMP = Best Management Practice(s) specified in the system design

If the answer to both questions is “no”, this section does not need to be completed.

Compliance criteria:

a. Have the operating permit requirements been met?

Yes No

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

Yes No

Any “no” answer indicates noncompliance.

Describe verification methods and results:

Attached supporting documentation: Operating permit (Attach)

5. Soil separation – Compliance component #5 of 5

Date of installation 7/21/1992 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Attached supporting documentation:

- Soil observation logs completed for the report
- Two previous verifications of required vertical separation
- Not applicable (No soil treatment area)
- _____

Compliance criteria (select one):

5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Yes No*

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

5b. 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*

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day) Yes No*

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Indicate depths or elevations

A. Bottom of distribution media	97.8'
B. Periodically saturated soil/bedrock	94.6'+
C. System separation	3.2'+
D. Required compliance separation*	3.0'

*May be reduced up to 15 percent if allowed by Local Ordinance.

***Any "no" answer above indicates the system is failing to protect groundwater.**

Describe verification methods and results:

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.

Sewage tank integrity assessment form

Subsurface Sewage Treatment Systems (SSTS) Program

Doc Type: Compliance and Enforcement

Purpose: This form may be used to certify the compliance status of the sewage tank components of the SSTS. This form is not a complete SSTS inspection report, only a tank integrity assessment, and may only certify sewage tank compliance status when entirely completed and signed by a qualified professional. SSTS compliance inspection report forms can be found at: <https://www.pca.state.mn.us/water/inspections>.

Instructions: This form may be completed, and signed, by a Designated Certified Individual (DCI) of a licensed SSTS inspection, maintenance, installation, or service provider business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system. Only a licensed maintenance business is authorized to pump the tank for assessment. A copy of this information should be submitted to the system owner and be maintained by the licensed SSTS business for a period of five (5) years from the assessment date.

When this form is signed by a qualified certified professional, it becomes necessary supporting documentation to an Existing System Compliance Inspection Report: [Compliance inspection form - Existing system \(wq-wwists4-31b\)](#). This form can be found on the MPCA website at <https://www.pca.state.mn.us/water/inspections>.

The information and certified statement on this form is required when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits an inspection report. This form represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4(B)(1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4(B),(C), and (D) and; Minn. R. 7083.0730(C).

Owner information

Owner/Representative: Chad Banker
 Property address: 20801 Keewatin Ave N. Forest Lake, MN 55028
 Local Regulatory Authority: _____ Parcel ID: _____

System status

System status on date (mm/dd/yyyy): 01-17-2022

Certificate of sewage tank compliance Notice of sewage tank non-compliance

Compliance criteria:

The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit - "Failure to Protect Groundwater."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
The SSTS has a sewage tank that leaks below the designed operating depth - "Failure to Protect Groundwater."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No
The SSTS presents a threat to public safety by reason of structurally unsound (damaged, cracked, or weak) maintenance hole cover(s) or lids or any other unsafe condition - "Imminent Threat to Public Health or Safety."	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No

Any "yes" answer above indicates sewage tank non-compliance.

Company information

Company name: Hasslefree Septic
 Business license number: L3287

Designated Certified Individual (DCI) information

Print name: Mike Hasselme
 Certification number: _____

I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS inspection, maintenance, installation, or service provider Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS.

By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Designated Certified Individual's signature: _____ Date (mm/dd/yyyy): _____
 (This document has been electronically signed.)

LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	DKL. BRN. FINE LOAMY SAND	0	DKL. BRN. FINE LOAMY SAND	0	DKL. BRN. FINE LOAMY SAND	0	DKL. BRN. FINE LOAMY SAND
3"		5"		4"		7"	
	LT. BRN. FINE LOAMY SAND		LT. BRN. FINE LOAMY SAND & ROCKS		LT. BRN. FINE LOAMY SAND & ROCKS		LT. BRN. FINE LOAMY SAND & ROCKS
13"		12"		18"		20"	
	LT. BRN. FINE - MED. SAND & ROCKS		LT. RED TAN FINE - MED. SAND & ROCKS		LT. REDDISH TAN FINE - MED. SAND & ROCKS		REDDISH BRN. FINE - MED. SAND & ROCKS
29"							
	REDDISH BRN. FINE - MED. SAND & ROCKS						
30"		30"					
	REDDISH BRN. MED. COARSE SAND & ROCKS		LT. TAN FINE - MED. SAND & ROCKS				
42"		40"					
	LT. TAN MED. SAND & ROCKS		LT. TAN MED. SAND & ROCKS			49"	
				60"			LT. TAN FINE - MED. SAND & ROCKS
					LT. TAN FINE - MED. SAND & ROCKS		
						6:0"	
							OBSTRUCTION
7:0"		7:0"		7:0"			6:0"
	END 1		END 2		END 3		

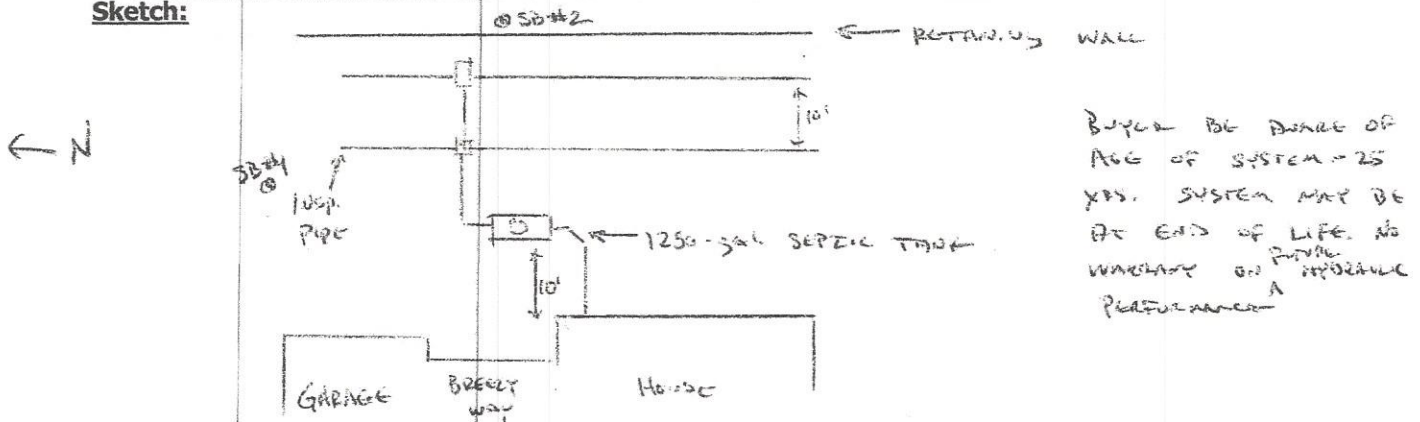


Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 20801 Keewatin Avenue, Forest Lake

Boring #1 Elevation: 102'4"		Boring #2 Elevation 99'7"		Boring #3 Elevation:
0-30	Filled soils, colors mixed. Soil wet.	0-30	Filled soils, colors mixed. Soil wet.	
-38	10YR 4/4 dark yellowish brown coarse sandy loam.	-38	10YR 4/4 dark yellowish brown coarse sandy loam.	
-76	10YR 5/4, 5/6 yellowish brown coarse sandy loam and rocks. Soil moist, no redoximorphic mottling observed.	-66	10YR 5/4, 5/6 yellowish brown coarse sandy loam and rocks. Soil moist, no redoximorphic mottling observed.	

Sketch:



Comments: Benchmark = liquid level in septic tank. Assumed elevation = 100'0". Soil borings #1 and #2 indicated the drainfield is sitting in filled soils. The soil was rather wet at the time of the borings, however no sign of redoximorphic mottling was observed at a depth of 36" beneath the rockbed of the drainfield. The system does meet the required three foot vertical separation from seasonally saturated soils. The system consists of a 1250-gallon septic tank and gravity drainfield. The tank is due to be pumped and must be done prior to closing by a state-licensed maintainer. Borings taken over the rockbed of the drainfield showed no signs of moisture above the drainfield or evidence of excess ponding, however ponding was observed in the first drainfield trench. The ponding in the first trench was the same elevation of liquid level in the septic tank, therefore indicating the trench is being used at or near maximum capacity. This inspection is not a warranty or guarantee, either written or implied, of future or long-term hydraulic functionality/performance, but rather a determination if the systems use is/may cause pollution and/or adverse harm to the environment, groundwater or public health and safety at the time of this inspection. Changes in use can cause any system to become hydraulically overloaded and ultimately fail. Buyer should be aware of the age of this system as it is likely at or near the end of its design life. Access to the back yard is limited should the system need to be replaced. Buyer assumes full responsibility for the long-term performance and/or future replacement cost associated with this system. Liability is limited to the cost of this inspection.