ZIERKE SOIL TESTING

Keith Kennedy 13395 Elmcrest Ave White Bear Lake, MN 55110

June 13th, 2022

Dear Keith Kennedy,

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 system is <u>non-compliant</u> due to a lack of vertical separation between the bottom of your drain field and indicators of seasonally wet soil (redoximorphic features). Therefore, this system is considered "failing to protect groundwater" and <u>is not considered an imminent threat to public health</u>. I am required to provide copies of this report to you and to Washington County. You should contact them as to the next steps that will be required to bring the system into compliance.

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

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

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: 3003121320007	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 13395 Elmcrest Ave White Bear Lake, MN 5	55110
Owner/representative: Keith Kennedy	Owner's phone: 651-600-8564
Brief system description: Pre-cast concrete septic tank with gra	vity drop box rock trench drainfield
System status	
System status on date (mm/dd/yyyy): 6/13/2022	
☐ Compliant – Certificate of compliance*	
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.
abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.) *Note: Compliance indicates conformance with Minn.	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
R. 7080.1500 as of system status date above and does not guarantee future performance.	under section 145A.04 subdivision 8.
Reason(s) for noncompliance (check all applicate	ole)
☐ Impact on public health (Compliance component #1	,
☐ Tank integrity (Compliance component #2) – Failing	•
☐ Other Compliance Conditions (Compliance components)	ent #3) – Imminent threat to public health and safety
☐ Other Compliance Conditions (Compliance components)	ent #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	ng to protect groundwater
☐ Operating permit/monitoring plan requirements (Cor	mpliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
Certification	
	to determine the compliance status of this system. No determination of wn conditions during system construction, possible abuse of the system,
,	e and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature:	License number: 119
(This document has been electronically sig	ned) Phone: 651-249-1346
Necessary or locally required supporting do	cumentation (must be attached)
Soil observation logs	equired forms
☐ Other information (list):	
, ,	

ss Name: Zierke Soil Testing		Date:	6/13/2022
pact on public health – Co	ompliance comp	ponent #1 of 5	
Compliance criteria:	· ·	Attached supporting documentation	on:
System discharges sewage to the ground surface	☐ Yes* ☒ No	☐ Other: ☑ Not applicable	
System discharges sewage to drain ile or surface waters.	☐ Yes* ☒ No		
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No		
Any "yes" answer above indicates imminent threat to public health an			
Describe verification methods and	results:		
nk integrity – Compliance	component #2	of 5	
nk integrity – Compliance Compliance criteria:	component #2	of 5 Attached supporting documentation	on:
Compliance criteria: System consists of a seepage pit,	component #2		on:
Compliance criteria:	· 	Attached supporting documentation	on:
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	· 	Attached supporting documentation ✓ Empty tank(s) viewed by inspector	Smilies
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	Yes* ⊠ No	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business:	Smilies
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	Yes* ⊠ No	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	Smilies ness: <u>2428</u> <u>6/13/202</u>
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	Yes* ⊠ No	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business business of maintenance: Existing tank integrity assessment (Air Date of maintenance)	Smilies ness: <u>2428</u> <u>6/13/202</u> ttach)
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	Yes* ⊠ No Yes* ⊠ No	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business business of maintenance: Existing tank integrity assessment (Air Date of maintenance)	Smilies ness: 2428 6/13/202 ttach) thin three year
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Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates is failing to protect groundwates.	☐ Yes* ☑ No ☐ Yes* ☑ No ☐ Yes* ☑ No ☐ Yes* ☑ No ☐ ates the system er. ☐ results:	Attached supporting documentation Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business: Date of maintenance: Existing tank integrity assessment (Air Date of maintenance (mm/dd/yyyy): (must be with the form instructions to ensure assess Minn. R. 7082.0700 subp. 4 B (1)) Tank is Noncompliant (pumping not need of the form instructions).	Smilies ness: 2428 6/13/202 ttach) thin three year ssment compli

Property Address: 13395 Elmcrest Ave White Bear Lake, MN 55110	
Business Name: Zierke Soil Testing	Date: 6/13/2022
3. Other compliance conditions – Compliance component #3 of 5	
3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or un	nsecured?
☐ Yes* ☑ No ☐ Unknown	
3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or sa	ıfety? ☐ 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
4. Operating permit and nitrogen BMP* – Compliance component #4	of 5 Not applicable If "yes", A below is required
4. Operating permit and nitrogen BMP* – Compliance component #4	o If "yes", A below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	o If "yes", A below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design	If "yes", A below is required If "yes", B below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? 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.	If "yes", A below is required If "yes", B below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? 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:	If "yes", A below is required If "yes", B below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
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4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
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4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
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4. Operating permit and nitrogen BMP* — Compliance component #4 Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required

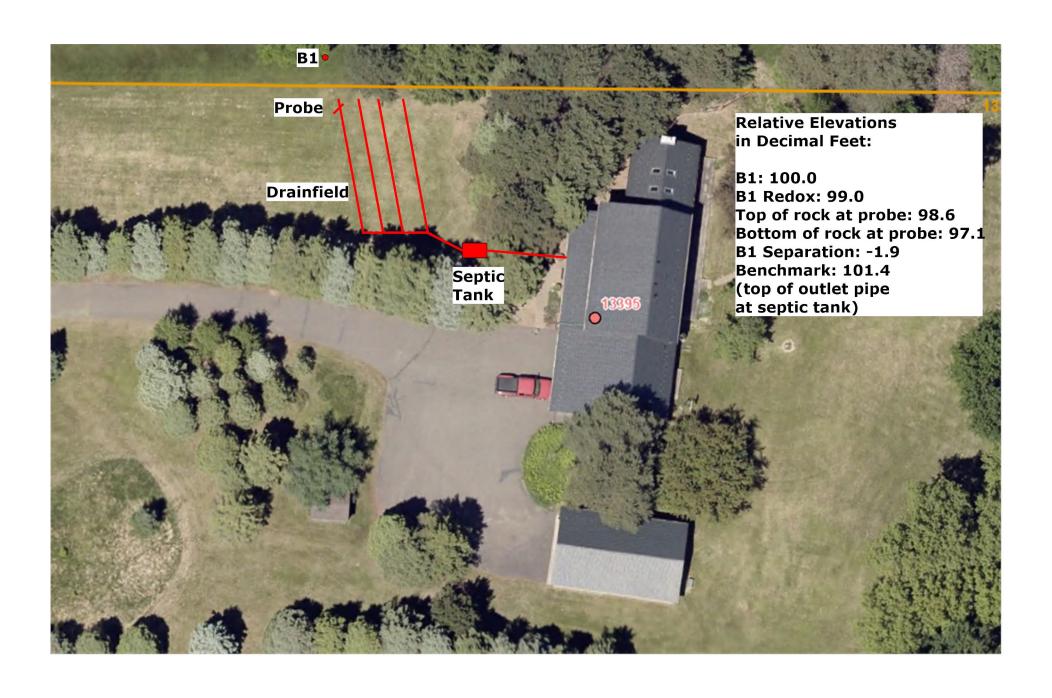
https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

usiness Name: Zierke S	Soil Testing		Date: _	6/13/2022	
Soil separation	– Compliance cor	nponent #5 o	of 5		
Date of installation	1987 (mm/dd/yyyy)	Unknown			
Shoreland/Wellhead protection/Food		⊠ Yes □ No	Attached supporting documentation:		
			oxtimes Soil observation logs completed for the report		
		☐ Two previous verifications of required vertical separation			
		☐ Yes ☐ No*	☐ Not applicable (No soil treatment area)☐		
Drainfield has at lea separation distance saturated soil or be					
5b.Non-performance systems built April 1, 1996, or later or for non- performance systems located in Shoreland		☐ Yes ⊠ No*	Indicate depths or elevations		
			A. Bottom of distribution media	97.1'	
or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically	B. Periodically saturated soil/bedrock		99.0'		
	C. System separation		-1.9'		
	D. Required compliance separation*		3.0'		
saturated soil or bedrock.*			*May be reduced up to 15 percent if allowed by Local Ordinance.		
systems built under Type IV or V syster Rules 7080. 2350 o (Intermediate Inspe 2,500 gallons per d	ns built under 2008	☐ Yes ☐ No*			
Drainfield meets the separation distance saturated soil or be	e from periodically				

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.

800-657-3864



Logs of Soil Borings

Location of Project: 13395 Elmcrest Ave White Bear Lake, MN 55110

Borings Made by Ben Zierke Date: 6/13/2022

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

Depth, in Inches 0	Boring Number 1	Depth, in Inches	Boring Number 2
0-10"	10YR 3/2 sandy loam		
10-12"	10YR 4/4 sandy loam		
12-16"	10YR 4/4 clay loam, 7.5YR 5/8 and 10YR 6/1 redox		
End of boring at	1.3 feet	End of boring at	feet
Standing water tab Present at Standing water not p Restriction: Observed at Restrictive soil not p Comments:	feet of depth Hours after boring oresent in hole X 1 feet of depth	Standing water table Present at Standing water not p Mottled Soil: Observed at Mottled soil not prese Comments:	feet of depth Hours after boring resent in hole feet of depth feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0		0	
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not present at Comments:	feet of depth Hours after boring oresent in hole feet of depth	End of boring at Standing water tabl Present at Standing water not p Mottled Soil: Observed at Mottled soil not press Comments:	feet of depth Hours after boring resent in hole feet of depth feet of depth