ZIERKE SOIL TESTING

Deb Schmitt
23277 Nolan Ave N
Scandia, MN 55073

4/26/2024

Dear Deb Schmitt,

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

Benjamin Zierke
MPCA Lic 119, Cert 9594

ADDRESS:
28587 Jeffrey Ave
Chisago City, MN 55013

PHONE 651-249-1346
EMAIL benzierke@gmail.com

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

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: 0403220410002 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 23277 Nolan Ave N Scandia, MN 55073

Owner/representative: Deb Schmitt Owner's phone: 612-599-9056

Brief system description: (2) 1000 gallon septic tanks, 1000 gallon lift tank, mound dispersal system

System status

System status on date (mm/dd/yyyy): 4/26/2024

☒ **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 abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)*

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

☐ **Noncompliant – Notice of noncompliance**

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

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

Alarm on effluent filter was not functioning during site visit 4/25/2024. Otherwise system function appeared to be normal - homeowner reported no past issues.

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: Benjamin Zierke 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):

Property Address: 23277 Nolan Ave N Scandia, MN 55073

Business Name: Zierke Soil Testing Date: 4/26/2024

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

Compliance criteria:	
System discharges sewage to the ground surface	☐ Yes* ☒ No
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No

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

Attached supporting documentation:

☐ Other:

☒ Not applicable

Describe verification methods and results:

None of the above observed.

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☒ No
Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☒ No
If yes, which sewage tank(s) leaks:	

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

Attached supporting documentation:

☒ Empty tank(s) viewed by inspector

Name of maintenance business: Smilies

License number of maintenance business: 2428

Date of maintenance: 4/25/2024

☐ Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): (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:

Describe verification methods and results:

Present for pumping by Smilies Sewer 4/25/2024. Tanks water tight and baffles in place.

Property Address: 23277 Nolan Ave N Scandia, MN 55073
Business Name: Zierke Soil Testing Date: 4/26/2024

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) ☐

Property Address: 23277 Nolan Ave N Scandia, MN 55073

Business Name: Zierke Soil Testing Date: 4/26/2024

5. Soil separation – Compliance component #5 of 5

Date of installation 10/28/2016 ☐ 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:* Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*
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:* Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☒ Yes ☐ No*
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)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Indicate depths or elevations

A. Bottom of distribution media	103.6'
B. Periodically saturated soil/bedrock	98.7'
C. System separation	4.9'
D. Required compliance separation*	3.0'

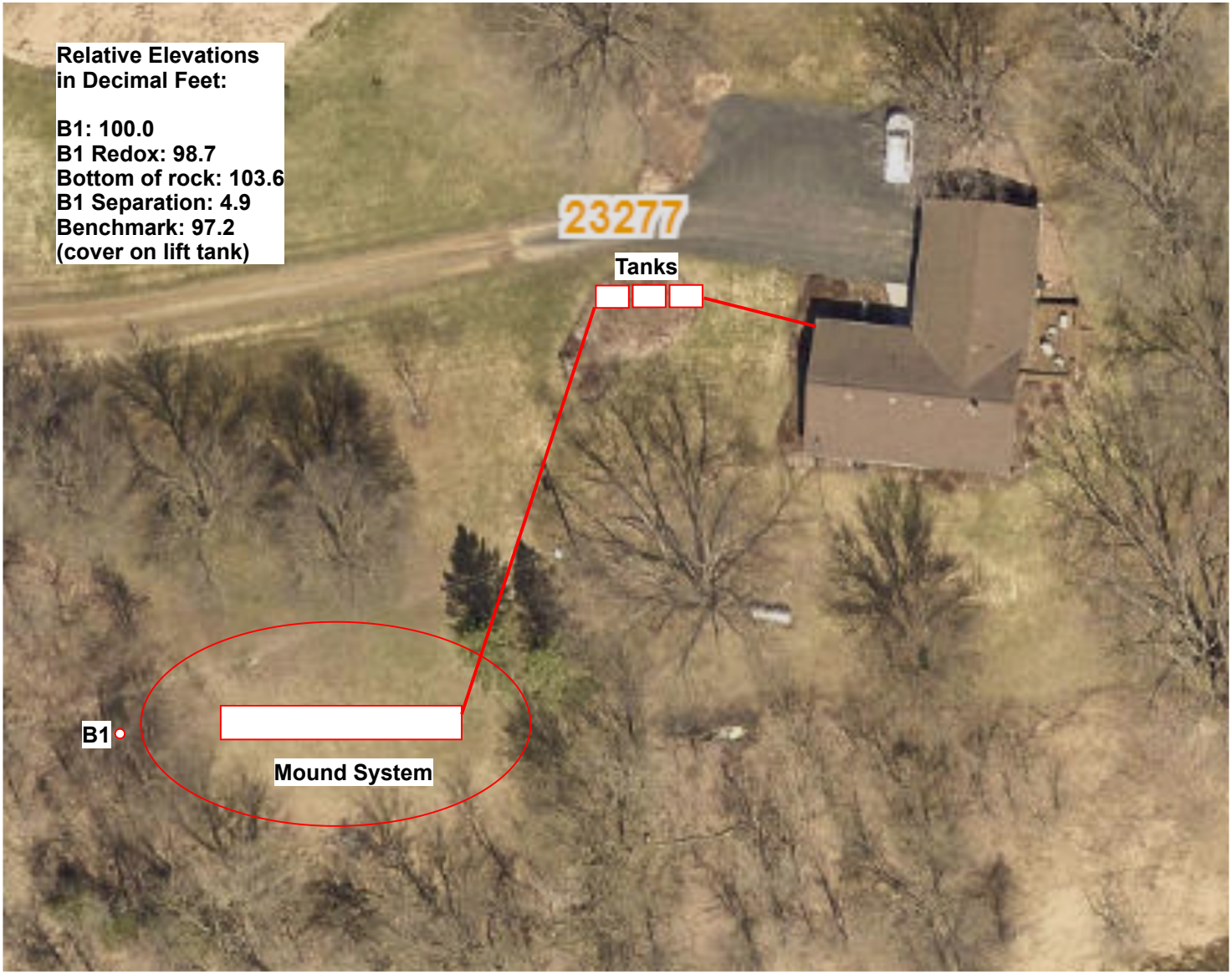
*May be reduced up to 15 percent if allowed by Local Ordinance.

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

Describe verification methods and results:

See attached boring log and elevations.

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.*


Relative Elevations
in Decimal Feet:
B1: 100.0
B1 Redox: 98.7
Bottom of rock: 103.6
B1 Separation: 4.9
Benchmark: 97.2
(cover on lift tank)
23277
Tanks
B1
Mound System

Logs of Soil Borings

Location of Project: 23277 Nolan Ave N Scandia, MN 55073

Borings Made by Ben Zierke Date: 4/26/2024

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----------	----------
0-8"	10YR 3/2 loam		
8-15"	10YR 4/4 clay loam		
15-18"	10YR 5/4 clay loam, 10YR 6/1 depletions (redox)		

End of boring at 1.5 feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [X]
Mottled Soil:
Observed at 1.3 feet of depth
Mottled soil not present in bore hole [ ]
Comments:

End of boring at feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [ ]
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole [ ]
Comments:

Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
0----------	----------	0----------	----------

End of boring at feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [ ]
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole [ ]
Comments:

End of boring at feet
Standing water table:
Present at feet of depth Hours after boring
Standing water not present in hole [ ]
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole [ ]
Comments:

Washington County

AS-BUILT REPORT
INDIVIDUAL SEWAGE TREATMENT SYSTEM

Washington County Public Health & Environment
14949 – 62ND ST N, PO BOX 6, STILLWATER, MN 55082-0006
651/430-6688 OR 651/430-6655 FAX 651/430-6730

Legal Description or Complete Street Address		City of Township		
0403220410002		SCANDIA		
Owner Name	**Mail Address**	**City**	**State**	**Zip**
STEPHEN SCHMITT	23277 NOLAN	SCANDIA	MN	55073
Installer	**Mail Address**	**City**	**State**	**Zip**
PERRY & SONS EXCAVATING	CHISAGO CITY	9752 252ND	MN	55013
Septic Tank Information Tank Manufacturer: 1- EXISTING		**Liquid Capacity** 1-1250 - 1000 EXISTING		

PUMP CHAMBER (if installed)

Tank Manufacturer:	Liquid Capacity:	Horsepower of Pump:	Type of Warning Device:
BOUDIN INC.	1000	4 THS	AUDIO-VISUAL
Pump Discharge in Gallons Per Minute: 26 **at** 24 **Feet of**		**Number of Gallons Per Cycle:** 115	

DRAINFIELD TRENCH		BED OR MOUND		
Width:	Length of Each Trench:	Rock Bed Length: 45	Width: 10	Area: 450
Depth of Trench Bottom from Finished Grade:		Bed Depth from Grade:		
Method of Distribution: ☐Pressure ☐Distribution Box ☐Drop Box		MOUND: Upslope Sand Base Depth: 24"	Downslope Sand Base Depth: 48"	
Depth of Rock Under Distribution Pipe:		Depth of Rock Under Pipe: 9"-12"		
Square Footage of Tested Area Used:		PRESSURE DISTRIBUTION SYSTEM:		
Trench Bottom Square Footage Required:	Area As Built:	Lateral Inside Diameter: 9"	Length: 43'	Perforation Size: 7/32.
		Spacing: 36"	Number: 3	Perforation Spacing: 36"

Complete site plan on an attached sheet. On the site plan, include location of the following items.

Structures, septic tank, pump chamber, line from house to tank treatment system, distribution lines, distribution or drop boxes, well, and driveway. Show all distances applicable to the sewage treatment system (distance from structure to tank, tank to treatment system, distance between distribution lines, length of distribution lines, and distance between well and sewage treatment system). Indicate NORTH on the site plan and the sale of the plan.

I hereby certify that the system at the above referenced address was installed according to the Washington County Individual Sewage Treatment System Ordinance requirements.

Signed: _____ MPCA License #: 1273 Dated: 10-28-16

WASHINGTON COUNTY SEPTIC PERMIT NUMBER 2016 - 234

Stephen Schmitt