

ZIERKE SOIL TESTING

Shane Maefsky
22615 Meadowbrook Ave N
Scandia, MN 55073

11/9/2021

Dear Shane Maefsky,

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 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: 09.032.20.24.0005 Reason for Inspection Sale
 Local regulatory authority info: Washington County
 Property address: 22615 Meadowbrook Ave N Scandia, MN 55073
 Owner/representative: Shane Maefsky Owner's phone: 651-235-2684
 Brief system description: Pre-cast 1500 gallon septic tank, gravity rock trench drainfield

System status

System status on date (mm/dd/yyyy): 11/9/2021

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

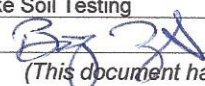
Certification

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): Previous Observations

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 11/5/2021.

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:

Present for pumping by Smilies Sewer. Tank watertight and baffles attached - verified with camera.

Attached supporting documentation:

Empty tank(s) viewed by inspector

Name of maintenance business: Smilies

License number of maintenance business: 2428

Date of maintenance: 11/5/2021

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: _____

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 10/26/1992 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

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.

Attached supporting documentation:

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

Indicate depths or elevations

A. Bottom of distribution media	98.3'
B. Periodically saturated soil/bedrock	96.3'
C. System separation	2.0'
D. Required compliance separation*	2.0'

*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.

Garbage Disposal _____ Recreational Bathing Facility (Jacuzzi, hot tub, etc.) _____

Type of Work: New Alteration Repair Approval Only

Has site previously been reviewed by Washington County? No Yes
 (If previously approved, attach letter of approval)

Approved _____ Denied _____

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Logs; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and well; 2 copies of the System Design; and 1 copy of the Final Building Plan. The house and the drainfield areas must be staked. Improper or inadequate test information will result in delays in processing.

Agreement: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by the Washington County Building Official or his agent, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees to provide access, at reasonable times, to the Building Official or his agent for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT. It shall be the responsibility of the applicant for the permit to notify the Office of the Building Official that the installation is ready for inspection.

Timothy M. Anderson ✓ 4/23/92 ✓
 Signature of Applicant (This form must be signed.) Date

Equal Employment Opportunity/Affirmative Action

FOR OFFICE USE ONLY:

Reviews: Planner _____ Inspector Planned Date 4-23-92

Site Evaluation:
 Soil Boring Evaluation; Depth of Water Table, Seasonal Water Table (Mottled Soil), Impervious Layer or Bedrock:

Soils Map Data: _____ Percolation Test Evaluation: 16-30 RPI

Setbacks:	Required (circle)					Actual
	50'	75'	100'	150'	150'	
Well (including adjacent property)	50'	75'	100'	150'	150'	<u>30</u>
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	<u>75'</u>	100'	150'	

Conclusions: Site Suitable: Site Unsuitable: _____ Additional Tests Required: _____ Verify Use: _____

NOTES: 35 acres 19/24
stop signs 6-2093
well 5-6'
can't be low 6'
use 20' May 2001

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Logs of Soil Borings

B-31

Location or Project Van Hillis Construction, 22615 Meadowbrook Ave. N., Scandia
 Borings made by Chris Zierke Date 7/15/92
 Classification System: AASRO _____; USDA-SCS x; Unified _____; other _____
 Auger used (check two): Hand x, or Power _____; Flight _____, or Bucket x; other _____

Depth, in feet	Boring number <u>B-5</u> Surface elevation _____	Depth, in feet	Boring number <u>B-6</u> Surface elevation _____
0		0	
10"	Grayish-brown sandy loam		Grayish-brown sandy loam
1	Brown sandy loam	1	Brown sandy loam
2		2	Yellowish-brown loam
3	Brown loam	3	Light yellowish-brown silt loam, iron-stained and mottled below 42" of depth
4		4	
50"	Light yellowish-brown silt loam, lightly iron-stained and mottled below 52" of depth	5	
5		6	
6		7	
7		8	
8			

End of boring at 5 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole x.

Mottled soil:
 Observed at 52" ~~xxxx~~ of depth.
 Not present in boring hole _____.

Observations and comments:

End of boring at 4 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole x.

Mottled soil:
 Observed at 3 1/2 feet of depth.
 Not present in boring hole _____.

Observations and comments:

Logs of Soil Borings

B-31

Location of Project Ben Hillis Construction, 22615 Meadowbrook Ave. N., Scandia

Borings made by Chris Zierke Date 7/15/92

Classification System: AASHO _____; USDA-SCS x; Unified _____; other _____

Auger used (check two): Hand x, or Power _____; Flight _____, or Bucket x; other _____

Depth, in feet	Boring number <u>B-7</u> Surface elevation _____	Depth, in feet	Boring number <u>B-8</u> Surface elevation _____
0		0	
1	Grayish-brown sandy loam	8"	Grayish-brown sandy loam
2	Brown sandy loam	1	Brown sandy loam
3	Yellowish-brown loam	20"	
4	Yellowish-brown loamy sand, light iron-staining and light mottling below 44" of depth	2	Yellowish-brown loam
5	Light yellowish-brown silt loam, iron-stained, mottled	3	
6		42"	
7		4	Yellowish-brown loamy sand, iron-stained, mottled
8		54"	Light yellowish-brown silt loam, iron-stained, mottled
		5	
		6	
		7	
		8	

End of boring at 5 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole x.
 Mottled soil:
 Observed at 44" ~~xxxx~~ of depth.
 Not present in boring hole _____.
 Observations and comments:

End of boring at 5 feet.
 Standing water table:
 Present at _____ feet of depth,
 _____ hours after boring.
 Not present in boring hole x.
 Mottled soil:
 Observed at 3 1/2 feet of depth.
 Not present in boring hole _____.
 Observations and comments:

LOGS OF SOIL BORINGS

Location of Project Tim Lackas, 22615 Meadowbrook Ave. N., Scandia, MN. 55073

Borings Made by Chris Zierke

Date: 9/26/14

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

Depth, In Feet	Boring Number 1
0	
0-6"	Dark-brown loamy sand(10YR-3/3)
6-18"	Dark yellowish-brown loamy sand(10YR-4/4)
18-30"	Yellowish-brown loam(10YR-5/4)
30-48"	Yellowish-brown sandy loam(10YR-5/4)
	Redox below 44"

Depth, In Feet	Boring Number 2
0	
0-12"	Dark-brown loamy sand(4/4)
12-24"	Dark y-brown loamy sand(4/4)
24-48"	Yellowish-brown loam(5/4), redox below 42"

End of boring at 4 feet.
 Standing water table:
 Present at feet of depth, Hours after boring
 Standing water not present in hole
 Mottled Soil:
 Observed at 44" feet of depth
 Mottled soil not present in bore hole
 Comments:

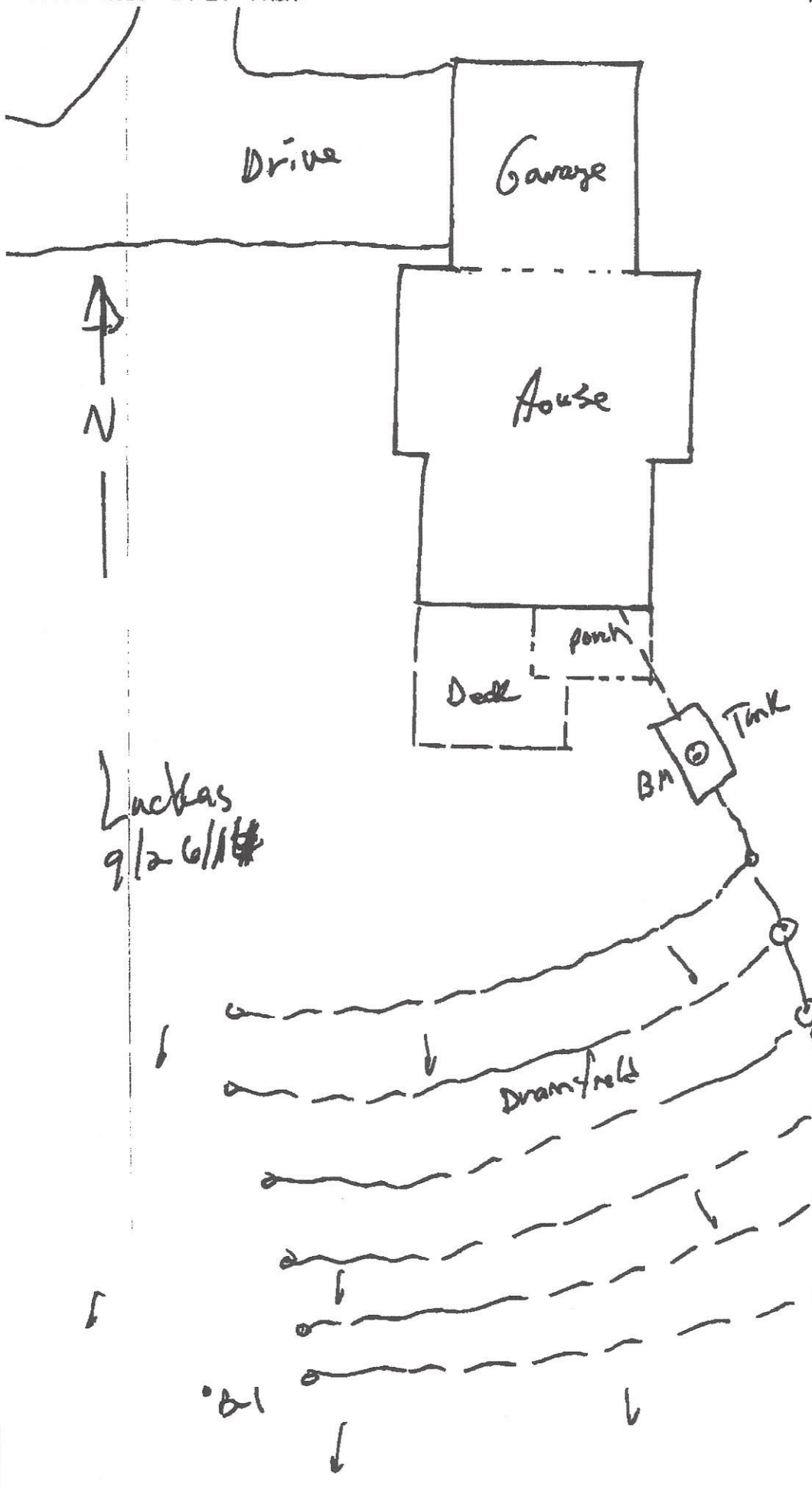
End of boring at 4 feet.
 Standing water table:
 Present at feet of depth, Hours after boring
 Standing water not present in hole
 Mottled Soil:
 Observed at 35 feet of depth
 Mottled soil not present in bore hole
 Comments:

Depth, In Feet	Boring Number 3
0	

Depth, In Feet	Boring Number 4
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:



Relative E Elevations

$B1 = 100.0'$
 $B2 = 99.4'$
 Redox $B1 = 96.3'$
 Redox $B2 = 95.9'$
 Top of Pond = $99.8'$
 Bottom of Pond = $98.3'$
 Separation $B1 = 2.0'$
 Separation $B2 = 2.4'$
 $BM = 103.1'$
 (Top of manhole cover on Tank)

Lucas
9/26/14

• B-1

• B-2