ZIERKE SOIL TESTING

Jim Moratzka 9885 202nd St N Forest Lake, MN 55025

7/18/2024

Dear Jim Moratzka,

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 <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. 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

Berjamin Zierke

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: 2403221430002	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 9885 202 nd St N Forest Lake, MN 55025	
Owner/representative: Jim Moratzka	Owner's phone: 651-433-3430
Brief system description: (2) 1250 gallon septic tanks, 1000 gall	on lift tank, mound dispersal system
System status	
System status on date (mm/dd/yyyy): 7/18/2024	
☐ 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	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.)	An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	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 applicate	ole)
☐ 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 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. 7080.2	2500 (Compliance component #3) – Failing to protect groundwater
Soil separation (Compliance component #5) – Failin	g to protect groundwater
☐ Operating permit/monitoring plan requirements (Con	mpliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
No issues observed with system 7/18/2024. Homeowners	s reported no past issues with the system.
Contitiontion	
Certification	
	to determine the compliance status of this system. No determination of wn conditions during system construction, possible abuse of the system,
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature: Berganin Zierker	License number: 119
(This document has been electronically sign	ned) Phone: 651-249-1346
Necessary or locally required supporting do	cumentation (must be attached)
Soil observation logs	equired forms
☑ Other information (list): Previous Soil Observations, Permit	Data

Compliance criteria:		Attached supporting document	ation:
System discharges sewage to the ground surface	☐ Yes* ⊠ No	☐ Other: ☑ Not applicable	
System discharges sewage to drain tile or surface waters.	☐ Yes* ⊠ No	Z	
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates imminent threat to public health ar			
Describe verification methods and	results:		
None of the above observed.			
nk integrity – Compliance	component #2		
Compliance criteria:	· 	Attached supporting document	
	component #2		
Compliance criteria: System consists of a seepage pit,	· 	Attached supporting document	
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	· 	Attached supporting document Empty tank(s) viewed by inspecto Name of maintenance business: License number of maintenance business	Smilies susiness: 2428
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	_ Yes* ⊠ No	Attached supporting document ⊠ Empty tank(s) viewed by inspecto Name of maintenance business: License number of maintenance business business business business:	Smilies ousiness: 2428 7/17/2024
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 document ⊠ Empty tank(s) viewed by inspecto Name of maintenance business: License number of maintenance b Date of maintenance: □ Existing tank integrity assessment	Smilies ousiness: 2428 7/17/2024
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 document Empty tank(s) viewed by inspecto Name of maintenance business: License number of maintenance business business of maintenance: Existing tank integrity assessment business and business of maintenance.	Smilies ousiness: 2428 7/17/2024
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Property Address: 9885 202 nd St N Forest Lake, MN 55025	
Business Name: Zierke Soil Testing	Date: 7/18/2024
3. Other compliance conditions – Compliance component #3	3 of 5
3a. Maintenance hole covers appear to be structurally unsound (damaged, cracke	d, etc.), or unsecured?
☐ Yes* ☐ No ☐ Unknown	health ar asfatr 2 1 Vest MAI. 1 University
3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public	•
*Yes to 3a or 3b - System is an imminent threat to public health and safet	
3c. System is non-protective of ground water for other conditions as determined b	•
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 comp	onent #4 of 5 🛛 Not applicable
Is the system operated under an Operating Permit?	☐ Yes ☐ No If "yes", A below is required
Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design?	☐ Yes ☐ No If "yes", A below is required
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	☐ Yes ☐ No If "yes", A below is required ☐ Yes ☐ No If "yes", B below is required
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https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

usiness Name: Zierke Soil Testing		Date: 7/18/2024	
oil separation – Complianc	e component #5 o	f 5	
ate of installation 8/30/2015 (mm/dd/yyyy)	Unknown		
horeland/Wellhead protection/Food	☐ Yes ⊠ No	Attached supporting documentation:	
everage lodging?		igtimes Soil observation logs completed for the	ne report
ompliance criteria (select one):		☐ Two previous verifications of required	l vertical separation
a. For systems built prior to April 1, 199		☐ Not applicable (No soil treatment are	a)
not located in Shoreland or Wellhead Protection Area or not serving a food beverage or lodging establishment:			
Drainfield has at least a two-foot verti separation distance from periodically saturated soil or bedrock.	ical		
b.Non-performance systems built	⊠ Yes □ No*	Indicate depths or elevations	
April 1, 1996, or later or for non- performance systems located in Shor	reland	A. Bottom of distribution media	101.7
or Wellhead Protection Areas or serv	ing a	B. Periodically saturated soil/bedrock	98.5
food, beverage, or lodging establishn	nent:	C. System separation	3.2
Drainfield has a three-foot vertical separation distance from periodically		D. Required compliance separation*	3.0
saturated soil or bedrock.*		*May be reduced up to 15 percent if all Ordinance.	owed by Local
c. "Experimental", "Other", or "Performa systems built under pre-2008 Rules; Type IV or V systems built under 200 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License requ. 2,500 gallons per day; Advanced Insp License required > 2,500 gallons per	8 ired ≤ pector		
Drainfield meets the designed vertica separation distance from periodically saturated soil or bedrock.	ı		

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: 9885 202nd St N Forest Lake, MN 55025

Borings Made by Ben Zierke Date: 7/17/2024

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

Depth, in Inches 0 0-11" 11-16" 16-18" 18-22"	Boring Number 1 10YR 3/2 sandy loam 10YR 4/3 sandy loam 7.5YR 4/4 sandy loam 7.5YR 4/4 loam, 7.5YR 5/6	Depth, in Inches 0	Boring Number 2
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole 1.5 feet of depth 1.5 feet of depth 1.7 Hours after boring	End of boring at Standing water tal 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
Depth, in Inches O	Boring Number 3	Depth, in Inches 0	Boring Number 4
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole feet of depth	End of boring at Standing water tal 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



Department of Public Health and Environment

14949 62nd Street North PO Box 6 Stillwater MN 55082-0006

Office: 651-430-6655 TTY: 651-430-6246 Fax: 651-430-6730

Community:

Forest Lake City

Permit Number:

0600-15-12

Owner:

Jim Moratzka 9885 202nd ST N

Forest Lake MN 55025-

Applicant:

Scandia Contracting

PERMISSION IS HEREBY GRANTED

\$290.00

\$485.00

\$775.00

\$775.00

\$0.00

Review Fee:

Permit Fee:

Total Fee:

Balance Due

Previous Payment

To execute the work specified in this permit on the following identified property upon express condition that said persons and their agents, and employees shall conform in all respects to the provisions of Ordinance #179, Washington County Development Code, Chapter Four, Subsurface Sewage Treatment System Regulations. This permit may be revoked at any time upon violation of any of the provisions of said ordinance.

Project Address:

9885 202nd ST N

Geo Code:

24-032-21-43-0002

Designer:

Zierke Soil Testing

Type of System: Mound			Pressure Distribution				
Type of System: Wound					Number Of Laterals:	3	
Design Criteria		Mound Sizing		Perforation Spacing:	3	Feet	
Percolation Rate:	12	Rock Bed Width:	10	Feet	Perforation Diameter:	7/32	Inch
Depth To Restriction:	18	Rock Bed Length:	75	Feet	Head Size:	1.0	Inch
Land Slope:	0.00%	Absorption Width:	15	Feet	Total Head:	18.64	
Flow Rate:	750	Depth of Clean Sand:	18	Inches	Connection:	End	
Number of Bedrooms:	5	Downslope Dike Width:	23	Feet	Length of Laterals:	73	Feet
		Upslope Dike:	11	Feet	Perforations / Lateral:	25	
•		Length of Dike:	109	Feet	Total Perforations:	75	
		Tank Sizes		·	Gallons Per Minute:	42	_
Tank 1: 1500 Tank	< 2: 1000	Tank 3: 0	Lift Station:	1000	Lateral Diameter:	2	Inche

Authorized Work/Special Conditions

- 1. Effluent Filter with Alarm Required
- 2. Pressure laterals must have cleanouts to grade.

Permit Issue Date:

8/19/2015

Permit Expiration Date:

8/18/2016

Pete Ganzel

Senior Environmental Specialist

P. Canrel

Onsite Sewage Treatment Program Soil Observation Log

UNIVERSITY



Extremely Firm Rigid Extremely Firm Rigid Extremely Firm Rigid Extremely Firm Rigid Firm Extremely Firm Columeto Consistence **Extremely Firm** (Date) Loose Loose Friable Loose Friable Loose Loose Friable Loose Friable Firm Firm Firm E Rigid Firm Rigid /76 2 (License #) Structure Moderate Strong Loose Moderate Strong Loose 4 Grade Weak Moderate Strong Moderate Weak Moderate Weak Strong Loose Strong Loose Strong Loose Weak 5 Ŵ Structure Slope Shape: Date: Shape Platy Grocky Prismatic Single Grain Platy Blocky Prismatic Single Grain Platy
Fricon
Prismatic
Single Grain
Massive
Granular
Platy
Blocky Prismatic Single Grain Single Grain Granular Piaty Blocky Prismatic Prismatic Massive Granular Massive Granular Massive Slope (%): Granular Elevation: Massive Platy Blocky Granular Bedrock Saturated Soil Indicator(s) (see back) 20 1 Organic Matter Signature Concentrations Depletions Gleyed Toe Slope Concentrations Depletiens Gleyed Concentrations Concentrations Concentrations Concentrations Depletions Gleyed Kind(s) Depletions Redox Depletions Depletions Gleyed Gleyed Observation #/Location/Method: Gleyerd Soil Survey Map Unit(s): Chefel Loess Foot Slope Legal Description/GPS: Mottle Color(s) Alluvium Back/Side Slope 16 3/3 Matrix Color(s) Lacustrine (Designer) Frag % work in accordance with all applicable ordinances, rules and laws. Rock Certified Statement: I hereby certify that I have completed this 18 J Outwash Shoulder Weather conditions/Time of Day: R 170 South boun Vegetation: Mass Cause Texture Landscape Position: Summit Soil Parent Material(s): (Till (circle all that apply OF MINNESOTA (circle one) Client/ Address: 27 Comments: Depth (in) 8-9 ų:f

LOGS OF SOIL BORINGS

Location of Project Jim Moratzka, 40 acres, sec. 24, City of Forest Lake, Washington Co. Borings Made by Chris Zierke

Date: 6/1/15

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

Depth, In Feet	Boring Number 1
0-8"	Dark-brown sandy loam(10YR-3/3)
8-24"	Dark yellowish-brown sandy loam(10YR-
	4/4)
24-36"	Strong-brown loam(7.5YR-4/6), redox
End of boring at 3	Click here to enter text.

Depth, In Feet	Boring Number 2
0	
0-6"	Dark-brown sandy loam(3/3)
6-18"	Dark y-brown sandy loam(4/4)
18-36"	Strong-brown loam(4/6), redox
End of boring at 3	feet

End of boring at 3 feet.

Standing water table:

Present at feet of depth, Hours after boring

Standing water not present in hole ⊠

Mottled Soil:

Observed at 2 feet of depth

Mottled soil not present in bore hole □

Comments:

End of boring at 3 feet.

Standing water table:

Present at feet of depth, Hours after boring

Standing water not present in hole

Mottled Soil:

Mottled Soil not present in bore hole

Comments:

Depth, In Feet	Boring Number 3
0-6"	Dark-brown sandy loam(3/3)
6-20"	Dark y-brown sandy loam(4/4), redox
	Below 18"
20-24"	Strong-brown loam(4/6), redox
End of boring at	2 feet.

Boring Number 4
Dark-brown sandy loam(3/3)
Dark y-brown sandy loam(4/4)
Strong-brown loam(4/6), redox

Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole
Mottled Soil:
Observed at 21.5 feet of depth
Mottled soil not present in bore hole
Comments:

Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole
Mottled Soil:
Observed at 2 feet of depth
Mottled soil not present in bore hole
Comments:



Department of Public Health and Environment

14949 62nd Street North PO Box 6

Office: 651-430-6655 - TTY: 651-430-6246 - Fax: 651-430-6730

Individual Sewage Treatment System Certificate of Compliance

Mound Type of System: 0600-15-12 Permit Number: 24-032-21-43-0002 Property ID Number:

9885 202nd ST N Property Address:

Forest Lake City Community: August 31, 2015 Date of Installation:

Individual Sewage Treatment System Regulations (Washington County Ordinance No. 128). This Certificate of Compliance is nealth and safety. Supporting documentation with detailed information on the system can be found on the attached as-built. valid for five (5) years from the date of issuance unless Washington County finds evidence of an imminent threat to public installation and found to be in compliance with requirements of the Washington County Development Code, Chapter Four, This certifies that the individual sewage treatment system installed at the aforementioned address was inspected during

Pete Ganzel

Senior Environmental Specialist