

# ZIERKE SOIL TESTING

Ryan Holgers and Maria Mulvihill  
5756 165<sup>th</sup> St N  
Hugo, MN 55038

12/22/2021

Dear Ryan Holgers and Maria Mulvihill,

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: 0803121240002 Reason for Inspection Sale  
Local regulatory authority info: Washington County  
Property address: 5756 165<sup>th</sup> St N Hugo, MN 55038  
Owner/representative: Ryan Holgers and Maria Mulvihill Owner's phone: 651-246-2742  
Brief system description: 1200 gallon septic tank, 1000 gallon septic tank, 1000 gallon lift tank, mound dispersal system

### System status

System status on date (mm/dd/yyyy): 12/22/2021

**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*

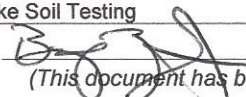
#### Comments or recommendations

System installed with permit in 1993/1994. Passed compliance inspection in 2014. Soil observations attached here are from original design and compliance inspection.

### 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 12/17/2021. Ryan reported no past issues with system.

### 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:

Tanks pumped and OK'ed by Olson's Sewer 12/17/2021.

### Attached supporting documentation:

Empty tank(s) viewed by inspector  
 Name of maintenance business: 216  
 License number of maintenance business: Olson's  
 Date of maintenance: 12/17/2021  
 Existing tank integrity assessment (Attach)  
 Date of maintenance (mm/dd/yyyy): 12/17/2021 (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 6/16/1994  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**

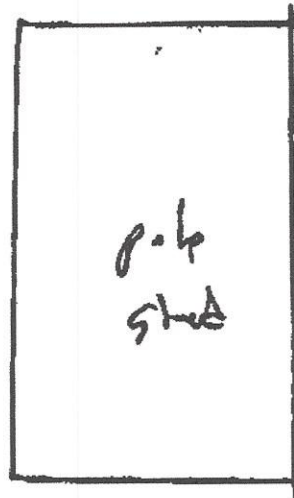
A. Bottom of distribution media	102.0'
B. Periodically saturated soil/bedrock	98.3'
C. System separation	3.7'
D. Required compliance separation*	2.0'

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

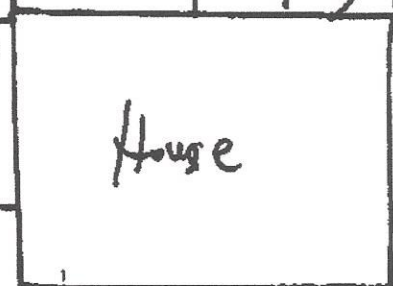
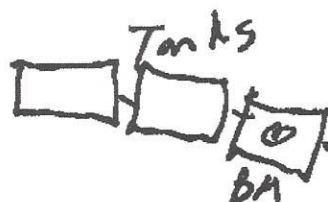
**\*Any "no" answer above indicates the system is failing to protect groundwater.**

**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.



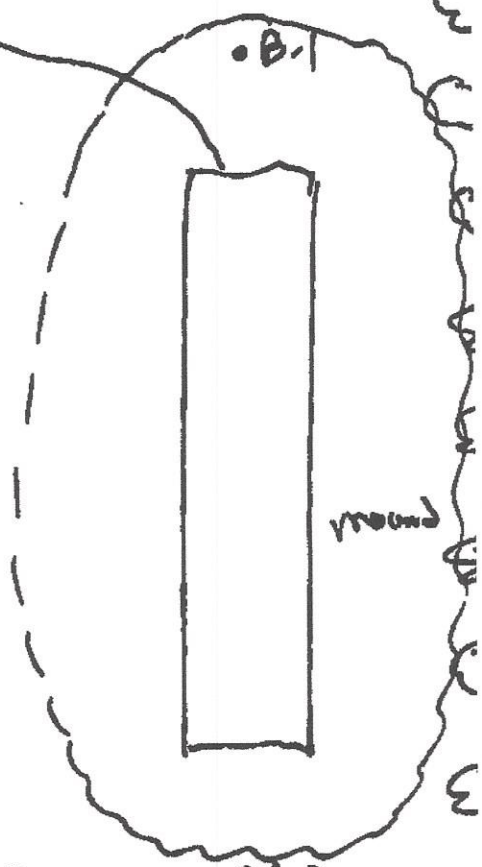
ODNS  
8/20/14



Driveway

Deep  
Well

Relative Elevations  
 B-1 = 100.0'  
 B-2 = 100.3'  
 Mottled Soil Bl = 96.8'  
 Mottled Soil Bl = 98.3'  
 Top of Rock = 103.0'  
 Bottom of Rock = 102.0'  
 Separation Bl = 5.2' x  
 Separation Bl = 3.7'  
 BM = 98.3'  
 (top of Manhole cover on  
 Lift Tank)



Row

**LOGS OF SOIL BORINGS**

Location of Project Dave Ochs, 5756 165th Street N., Hugo, MN. 55038

Date: 8/20/14

Borings Made by Chris Zierke

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

Depth, In Feet	Boring Number 1
0-----	
0-24"	Sandy fill soil
24-30"	Dark-brown loamy fine sand(10YR-3/3)
30-38"	Dark yellowish-brown loamy fine sand (10YR-4/4)
	obstruction

End of boring at 3.2 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 Feet	Boring Number 2
0-----	
0-6"	Dark-brown loamy fine sand(3/3)
6-30"	Dark y-brown loamy fine sand(4/4). iron-st. & light-gray mottles below 24"

End of boring at 2.5 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:

Depth, In Feet	Boring Number 3
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:

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:

JOB LOUNIE WRIGHT  
5756 165TH ST,  
HUTCH

BORING LOG

DATE 11-21-93

BOREHOLE DIAMETER 4" - 3 3/4" HOLID RUSSE

DEPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
1	TOP SOIL - BROWN, FINE SAND	TOP SOIL - BROWN, FINE SAND	TOP SOIL - BROWN, FINE SAND	TOP SOIL - BROWN, FINE SAND	MIXTURE - BLACK DIRT AND FINE SAND (FILL)	
2	DARK BROWN, SANDY LOAM - FAINT GRAYS	IRON - LIGHT GRAYS	DARK BROWN, SANDY LOAM - MOTTLED LAYERS	DARK BROWN, SANDY LOAM - MOTTLED LAYERS	BROWN, FINE SAND	
3	LIGHT BROWN, FINE SAND - SILTY - CLEAN	BROWN, MEDIUM SAND - LIGHT GRAYS	BROWN LOAM WITH IRON AND GRAY STREAKS	MOTTLED LAYERS		
4	LIGHT GRAYS - SOIL IS MOIST	LIGHT BROWN, FINE SAND - SILTY - SOIL IS MOIST	LIGHT BROWN, FINE SAND - SILTY - IRON STAINING - SOIL IS MOIST	LIGHT BROWN, FINE, SILTY SAND - SOIL IS WET	BROWN LOAM - MOTTLED	
5	STOP	STOP	STOP	STOP	STOP	
6						
7						
8						
9						
10						



Property address: 5756 165th St  
City: Hugo

State: MN

Parcel ID: \_\_\_\_\_  
Zip code: 55038

### Optional section: Sewage Tank Compliance Certification (Tank integrity assessment)

This form does not represent a complete system inspection report and only certifies sewage tank compliance status. i.e., this form, completed, may serve as a tank integrity assessment.

**Instructions:** This section of the form may be completed and signed by a Designated Certified Individual (DCI) of a licensed SSTS Maintenance Business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system.

When this section of the 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/service-and-maintenance>.

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 Item (B) subitem (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 Items B, C, and D; 7083.0730 Item C.

**Certificate of sewage tank compliance**  
Affirm all three statements:

- The SSTS does not contain a seepage pit, cesspool, drywell, leaching pit, or other pit.
- It does not contain a sewage tank that was designed to be watertight, but subsequently leaks below the designed operating depth.
- It does not represent an imminent safety threat by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition.

**Notice of sewage tank non-compliance**  
Select all that apply:

- The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit – "Failure to Protect Groundwater."
- It has a sewage tank that was designed to be watertight, but subsequently leaks below the designed operating depth – "Failure to Protect Groundwater."
- It presents a threat to public safety by reason of unsecured, damaged, or weak maintenance hole cover(s) or other unsafe condition – "Imminent Threat to Public Health or Safety."

#### Company information

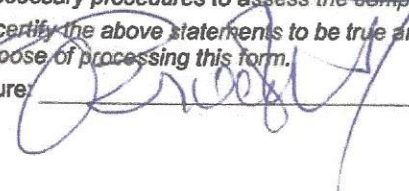
Company name: Olson's Sewer Service, Inc.  
Business license number: 216

#### Designated Certified Individual (DCI) information

Print name: Eric Dukat  
Certification number: 910410

*I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS Maintenance 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): 12-20-21