

# ZIERKE SOIL TESTING

Anita Olson  
17205 May Ave N  
Marine on St Croix, MN 55047

7/18/2024

Dear Anita Olson,

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: 0403120330002 Reason for Inspection Sale

Local regulatory authority info: Washington County

Property address: 17205 May Ave N Marine on St Croix, MN 55047

Owner/representative: Anita Olson Owner's phone: 651-433-3904

Brief system description: (2) pre-cast septic tanks, pre-cast lift tank, mound dispersal system

### System status

System status on date (mm/dd/yyyy): 7/18/2024

**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

No issues observed with system during site visit 7/17/2024. Homeowner reported no issues with the system.

### 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): Permit

## 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

**Attached supporting documentation:**

Other: \_\_\_\_\_  
 Not applicable

**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.

## 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:	

**Attached supporting documentation:**

Empty tank(s) viewed by inspector  
 Name of maintenance business: Olson's  
 License number of maintenance business: 216  
 Date of maintenance: 7/17/2024  
 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: \_\_\_\_\_

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

**Describe verification methods and results:**

Present for pumping by Olson's Sewer 7/17/2024. Tanks watertight and baffles in place (verified with go-pro camera)

### 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 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	100.7'
B. Periodically saturated soil/bedrock	97.5'
C. System separation	3.2'
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: 97.5**

**Bottom of rock: 100.7**

**Benchmark: 99.4  
(cover on lift tank)**



**B1**

**Mound System**

**Tanks**

## Logs of Soil Borings

Location of Project: 17205 May Ave N Marine on St Croix, MN 55047

Borings Made by Ben Zierke

Date:

7/17/2024

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-----	-----
0-14"	10YR 3/3 fine sandy loam		
14-20"	10YR 4/3 fine sandy loam		
20-30"	10YR 4/4 fine sandy loam		
30-40"	7.5YR 4/6 silt loam, bands of 10YR 4/3 fine sandy loam, 7.5YR 5/8 and 10YR 6/1 redox		

End of boring at 3.3 feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at 2.5 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:



RECEIVED  
MAY 05 1994

# SOIL REVIEW/SEPTIC PERMIT APPLICATION

Washington County Health, Environment & Land Management  
14900 61st Street N., P.O. Box 3803  
Stillwater, MN 55082-3803  
612/430-6708 or 612/430-6656 FAX 612/430-6730

FEE 25.00 *renewal pd / SW*

HELM

FOR COUNTY USE ONLY

Make checks payable to WASHINGTON COUNTY TREASURER

\$100 - Application Fee (site review)      \$25 - Additional Review Fee (1 hour minimum)  
\$100 - Drainfield System Permit Fee      \$100 base fee, plus \$50 per lot - Subdivision Fee  
\$150 - Mound System Permit Fee      *25-renewal of Permit #92-92051*

92-94024

Legal Description and Parcel Identification Number  
NW 1/2 - SW 1/4 - SW 1/4 S4, geo: 04-31-20-33-0002 89004-2455

Applicant HARLAN G. OLSON Address 17205 MAY AVE. N., MARINE ON ST. CR., MN 55047 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Owner (if different from applicant) NA Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone 433-3281

Use of Building: DWELLING Number of Bedrooms: 3 Gallons Per Day: \_\_\_\_\_

Check the following fixture(s) which are or will be installed: Garbage Disposal \_\_\_\_\_ Recreational Bathing Facility: (jacuzzi, hot tub, etc.) \_\_\_\_\_

New System \_\_\_\_\_ Approval Only \_\_\_\_\_ Previously Approved \_\_\_\_\_ Denied \_\_\_\_\_ Existing System Repair \_\_\_\_\_ Existing System Alteration \_\_\_\_\_ Fill Site \_\_\_\_\_  
If this site has been previously approved, please attach a copy of the approval letter

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; 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; two (2) copies of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete 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.

Harlan G. Olson Signature of Applicant (Owner or Builder) 5/5/94 Date

FOR OFFICE USE ONLY

REVIEWS: PLANNER \_\_\_\_\_ INSPECTOR \_\_\_\_\_ DATE \_\_\_\_\_

SITE EVALUATION:

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

Setbacks:	Percolation Test Evaluation:					Actual
	Required (circle appropriate item(s))					
Well (including adjacent property)	50'	75'	100'	150'		1
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	1

CONCLUSIONS: Site Suitable: \_\_\_\_\_ Site Unsuitable: \_\_\_\_\_ Additional Tests Required: \_\_\_\_\_ Verify Use: \_\_\_\_\_

NOTES: Lot Size 1.00 acre Year Built 1960  
18.50 acres

An Equal Employment Opportunity/Affirmative Action Employer  
If You Need Assistance Due to Disability or Language Barrier, Please Call 430-6656 OR 430-6708 (TDD 439-3220)



92-92051

RECEIVED  
JUN 18 1992

APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

Application Fee - <sup>95.00</sup> 175.00 PAID  
Permit Fee <sup>175.00</sup> PAID  
Additional Reviews - \$25.00/hr. (1 hr. min.)

Washington County Planning & Public Health  
14900 - 61st Street North, P. O. Box 6  
Stillwater, MN 55082 (612) 773-5111

1 Legal Description and Parcel Identification Number  
The N $\frac{1}{2}$  of the SW $\frac{1}{4}$  of the SW $\frac{1}{4}$ , Section 4, May Twp., PID#-89004-2455

2 Applicant: HARLAN G. OLSON  
Mailing Address: 17205 MAY AVENUE, MARINE 55047  
City: MARINE Zip: 55047 Phone: 433-3984

3 Owner (if different from Applicant): Harlan Olson  
Mailing Address: 17205 May Avenue N., Marine-on-St. Croix, MN. 55047  
City: Phone: 433-3984

4 Use of Building: residential Number of Bedrooms or Gallons Per Day 3(450)  
Check the following fixtures which are or will be installed:  
Garbage Disposal \_\_\_\_\_ Recreational Bathing Facility (Jacuzzi, hot tub, etc.) \_\_\_\_\_

5 Type of Work: \_\_\_\_\_ New \_\_\_\_\_ Alteration \_\_\_\_\_  Repair \_\_\_\_\_ Approval Only

6 Has site previously been reviewed by Washington County?  No  
(if previously approved, attach letter of approval) \_\_\_\_\_ Yes  
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 or 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.

6/13/92 Date  
Harlan G. Olson Signature of Applicant

FOR OFFICE USE ONLY:

Reviews: Planner: \_\_\_\_\_ Inspector: P. Conrad Date: 7-1-92

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

Soils Map Data: Setbacks:	Percolation Test Evaluation:					Actual
	Required (circle)					
Well (including adjacent property)	50'	75'	100'	150'		
Wetland, Pond, Lake, Stream, River, or Bluffline	20'	40'	75'	100'	150'	

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

NOTES: 19.50 acres built 1960  
open pasture - mottled soil at about 14-32"  
min 18" sand base