

# ZIERKE SOIL TESTING

Christopher Boysen  
13969 202<sup>nd</sup> St N  
Marine on St Croix, MN 55047

4/28/2021

Dear Christopher Boysen,

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:** Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached supporting documentation – additional local requirements may also apply. Further information can be found here: <https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf>.

**Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.**

### Property information

Local tracking number: \_\_\_\_\_

Parcel ID# or Sec/Twp/Range: 2203220430008 Local regulatory authority: Washington County

Property address: 13969 202<sup>nd</sup> St N Marine on St Croix, MN 55047

Owner/representative: Christopher Boysen Owner's phone: 763-248-5852

Brief system description: 1500 gallon septic tank, 1000 gallon septic tank, gravity rock trench drainfield

### System status

System status on date (mm/dd/yyyy): 4/28/2021

**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**

*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.*

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

#### 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
- Locally required forms
- Tank Integrity Assessment
- Operating Permit

Other information (list):

County permit/soil observation policy

## 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:

No signs of seepage or ponding observed during site visit 4/26/2021.

### 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 Smilie's Sewer. Tanks watertight and baffles in place. Confirmed with camera.

### Attached supporting documentation:

Pumped at time of inspection  
 Name of maintenance business: Smilies  
 License number of maintenance business: 2428  
 Date of maintenance: 4/26/2021  
 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

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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

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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 8/11/2005  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 (Advanced Inspector License required)  Yes  No\*

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

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

Describe verification methods and results:

**Attached supporting documentation:**

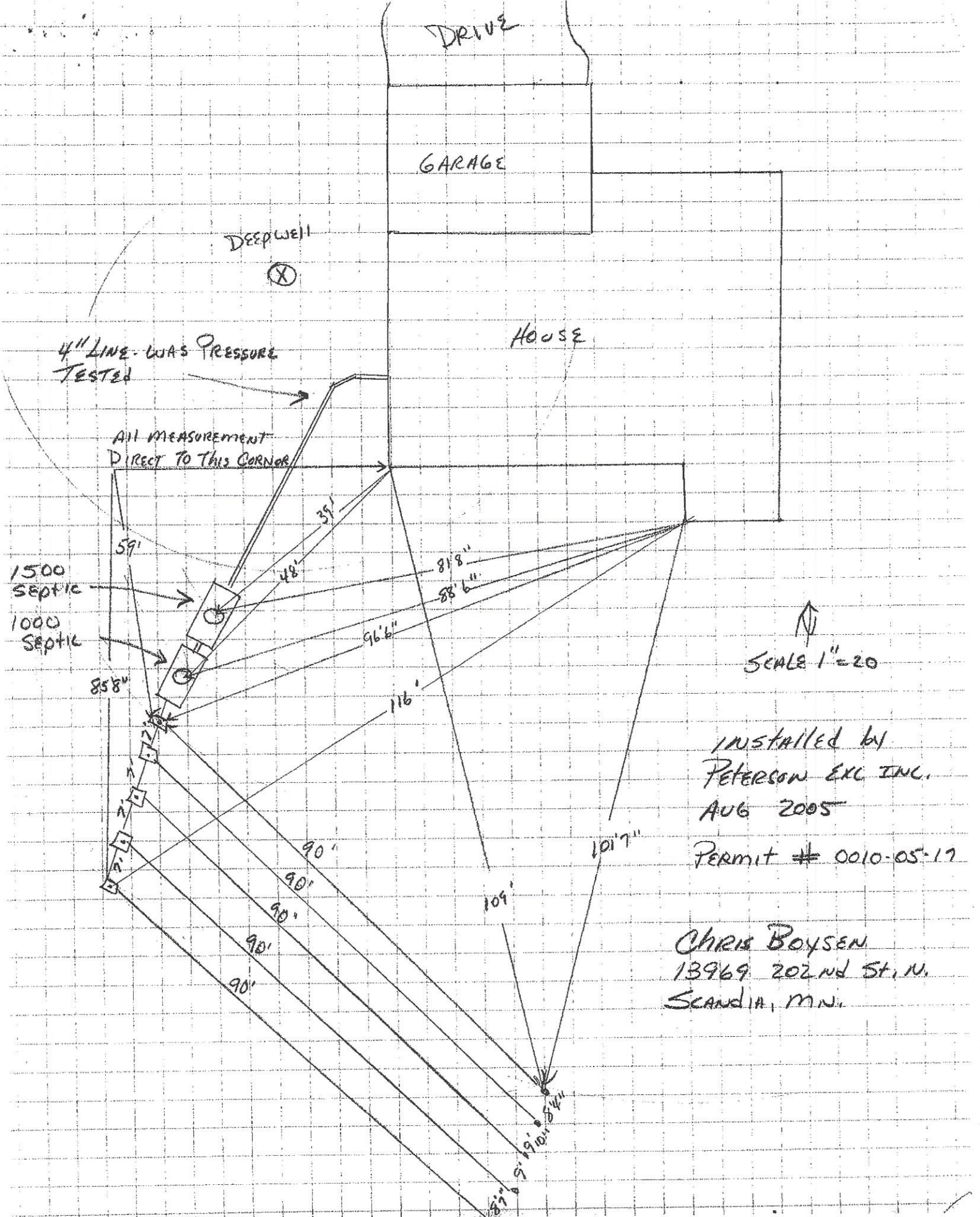
- Soil observation logs completed for the report (Attach)
- Two previous verifications of required vertical separation (Attach)
- Not applicable (No soil treatment area)
- \_\_\_\_\_

**Indicate depths or elevations**

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

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

**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.



DRIVE

GARAGE

HOUSE

DEEPWELL



4" LINE - WAS PRESSURE TESTED

ALL MEASUREMENT DIRECT TO THIS CORNER

1500 SEPTIC  
1000 SEPTIC

SCALE 1" = 20'

INSTALLED BY  
PETERSON EXC INC.  
AUG 2005

PERMIT # 0010-05-17

CHRIS BOYSEN  
13969 202ND ST. N.  
SCANDIA, MN.

59'

858"

48'

35'

818"

886"

966"

116'

1017"

109'

90'

90'

90'

90'

90'

89'

910"

844"

**Policy #331****Clarification of Soil Verification and Required Documentation for  
Subsurface Sewage Treatment System Compliance Purposes****Background:**

On January 1, 1993, Washington County ISTS Ordinance #103 became effective. The ordinance required independent county soil verifications for all county permitted ISTS designs.

On May 10, 1994 the MN Legislature passed the Individual Sewage Treatment System (ISTS) Act (HF 2158 / SF 1909, Chapter 617). This new law required local implementation of ISTS Standards and changes to MN Rules, Chapter 7080.

On January 23, 1996, the Technical Standards of Chapter 7080 became effective. These new State Rules outlined new site evaluation requirements for ISTS design review including the requirement for soil observations. The number of observations are to be determined by the professional judgement of the individual conducting the site evaluation and/or the permitting authority. A minimum of one soil observation was required at each site.

On October 20, 1997 Washington County approved ISTS Ordinance #128 which incorporated all the requirements of MN ISTS\* Rules Chapter 7080, and which maintained the county's requirement for independent soil verifications.

\*ISTS, individual sewage treatment systems, commonly called "septic systems" have been renamed Subsurface sewage treatment systems (SSTs)

**Site Evaluation and Design Approval:**

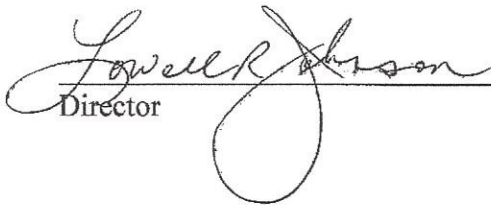
- After January 1, 1993, in order for a septic system permit to have been issued in Washington County, the soils and site were required to be field-verified by both an MPCA-certified designer and a Washington County inspector prior to system installation.
- Since January 1, 1993 Washington County inspectors have conducted field verifications to ensure the system installation met the specifications of the approved permit including soils, locations, and depth of system.
- Septic systems approved by Washington County since January 1, 1993 have had at least two independently verified soil observations. The first verification being a soil review by an MPCA-certified designer, and the second by a Washington County inspector.
- A lack of a county signature or field notes on the permit application or inspector notes is not an indication that county soil verifications were not performed.

**Guidance for Compliance Inspectors:**

The site evaluation and permit process summarized in this policy is intended to clarify for all SSTS compliance inspectors that SSTS's permitted by Washington County since January 1, 1993 have had at least two independent soil verifications conducted on the septic systems soil treatment area regardless of documentation available.

Soils in Washington County are highly variable and can vary significantly over a given site. Soil verifications that are done after installation for compliance inspections of existing SSTS's are required by state rules to be taken outside the area of system influence. Therefore, these verifications may or may not be representative of the soil conditions within the treatment area at the time of the original system design and installations.

REVIEWED AND APPROVED:

 2-21-19  
Director Date





## 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

# Individual Sewage Treatment System Certificate of Compliance

Type of System: Standard Drainfield  
Permit Number: 0010-05-17  
Property ID Number: 22-032-20-43-0008  
Property Address: 13969 202nd ST N  
Community: New Scandia Township  
Date of Installation: August 4, 2005

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

A handwritten signature in black ink that reads "P. Ganzel".

Pete Ganzel  
Senior Environmental Specialist