



Minnesota Pollution Control Agency

520 Lafayette Road North  
St. Paul, MN 55155-4194

# Compliance Inspection Form

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

**Instructions:** Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms -- additional local requirements may also apply.

For local tracking purposes:

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

### System Status

System status on date (mm/dd/yyyy): April 30, 2019

**Compliant -- Certificate of Compliance**

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

**Noncompliant -- Notice of Noncompliance**

(See Upgrade Requirements on page 3)

#### Reason(s) for noncompliance (check all applicable)

- Impact on Public Health (Compliance Component #1) -- Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) -- Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) -- Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) -- Failing to protect groundwater
- Soil Separation (Compliance Component #4) -- Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) -- Noncompliant

### Property Information

Parcel ID# or Sec/Twp/Range: 20-D-049900 30-51-26

Property address: 59175 Osprey Ave, Swatara, Mn 55785

Reason for inspection: Property Split

Property owner: Charles Holm

Owner's phone: \_\_\_\_\_

or

Owner's representative: Tim Larson

Representative phone: 218-393-3514

Local regulatory authority: Aitkin County

Regulatory authority phone: 218-927-7342

Brief system description: Older in ground gravity type bed

Comments or recommendations:

Pump septic tank and inspect baffles at least every 3 years

### 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.

Inspector name: Tom O'Neil

Certification number: C 3365

Business name: \_\_\_\_\_

License number: L 2132

Inspector signature: Tom O'Neil

Phone number: 218-927-6070

### Necessary or Locally Required Attachments

Soil boring logs       System/As-built drawing       Forms per local ordinance

Other information (list): Duane Niesen's 2006 Compliance showing over 60" to redox

Alternate Site location & borings

**1. Impact on Public Health – Compliance component #1 of 5**

**Compliance criteria:**

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause 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.**

Comments/Explanation:

**Verification method(s):**

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**2. Tank Integrity – Compliance component #2 of 5**

**Compliance criteria:**

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any "yes" answer above indicates the system is Failing to Protect Groundwater.**

Comments/Explanation: *Tank was full at proper operating level. New 24" risers and a cover were installed.*

**Verification method(s):**

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**3. Other Compliance Conditions – Compliance component #3 of 5**

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.  Yes\*  No  Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety.  Yes\*  No  Unknown  
**\*System is an imminent threat to public health and safety**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector  Yes\*  No  
**\*System is failing to protect groundwater**

Explain:

Property address: 59175 Osprey Ave. Swatara, Mn. 55785

Inspector initials/Date: T.O. 4-30-2019

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1993  Unknown  
Shoreland/Wellhead protection/Food Beverage Lodging?  Yes  No

Compliance criteria:

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.

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.\*

"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.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s); no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation: Soil was too rocky to auger. Drainfield is built on a slope so I measured from the bottom of rock bed and found over 30" of separation to the ground level.  
Duane Niesen had over 36" of separation when he did his inspection

Indicate depths of elevations

A. Bottom of distribution media	22"
B. Periodically saturated soil/bedrock	54+"
C. System separation	32+"
D. Required compliance separation*	24"

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

5. Operating Permit and Nitrogen BMP\* -- Compliance component #5 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?  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. Operating Permit number: \_\_\_\_\_  
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.

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.

SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-10	loam	10yr 3/2
10-14	Sandy loam	10yr 4/3

Shovel hole below  
grass level

over 3' to rock bed

SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR

SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-7	loam	10yr 3/2
7-14	Silty loam	10yr 4/4-5/4

mottles at 14"

SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	loam	10yr 3/2
6-14	Silty loam	10yr 4/4-5/4

mottles at 12"

Alternate Site Borings  
Site is on south side of house  
on the drawing

Property Owner(s) Robert Holm Fire No./ Parcel No. 20-0-049600

**System Components** (Please describe the system components):

1350 gal Sept. Tank gravity to a 20'x40' Rockbed with 12" of cover and 12" of Rock below

**What methods were used to make the determinations for the compliance inspection?** (Note: No standard protocol exists. The following list is not exhaustive, not in sequential order nor indicates which combinations are necessary to make a determination)

**Watertight tank(s)**

- Probed tank bottom
- Observed low liquid level
- Examined const. records
- Examined empty (pumped) tank
- Probed outside tank for black soils
- Pressure/vacuum check
- Other \_\_\_\_\_

**Hydraulic Functioning**

- Searched for surface outlet
- Performed hydraulic test
- Searched for seeping in yard
- Checked for back-up in home
- Excessive ponding in soil system
- Homeowner testimony
- Examined for surging in tank
- "Black soil" above soil system
- Other \_\_\_\_\_

**Separation Distance**

- Conducted soil borings
  - Depth to redox 60"
  - Depth to system bottom 24"
- Examined records
- County Verification Records
- Other \_\_\_\_\_

**STATUS OF THE SYSTEM**

Based on the compliance criteria above the system status is (check one)  in compliance (functioning)  failing (to protect groundwater)  an imminent threat to public health or safety (ITPHS),  non-compliant (monitoring issue),  compliant (non of the 3 previous conditions). or  insufficient information to make determination.

Therefore, this document is a  Certificate of Compliance  Notice of Noncompliance  Unknown compliance

**SUGGESTED ATTACHMENTS:**

- 1) Site sketch. Suggested items for sketch include: well, well setback to system, dwelling or other buildings, tank(s), soil treatment system, reserved soil treatment area, property lines, surface water and soil boring locations.
- 2) Soil boring logs, showing each horizon. Indicate the texture, color, redox/morphic features depth to bedrock, standing water and whether the material is fill.
- 3) A list of any and all requirements of the local ordinance that are different from the state requirements referred to on this form.
- 4) A homeowner survey, signed by the homeowner as being factual.
- 5) Monitoring data as appropriate.

**CERTIFICATION**

I hereby certify as a state of Minnesota licensed Inspector and/or Designer I or Qualified Employee Inspector and/or Qualified Employee Designer I that I conducted an investigation that accurately determined the compliance status of this system and that my recorded observations are accurate as of this date. No determination of future hydraulic performance has been nor can be made due to unknown conditions during system construction, abuse of the system, inadequate maintenance, or future water usage.

Inspector's name (print) Duane Nielsen Phone 218 697-8104  
License and/or Registration Number 2581/5733 Address 39045 650th St. Swatara MN 55785  
Employed by Home Services by Nielsen Address 39045 650th St. Swatara MN 55785  
Signature Duane Nielsen Date 10 June 2006

**Upgrade Requirements** (derived from Minnesota Statutes § 115.55)

An 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 fails to provide sufficient groundwater protection, then the system must be upgraded, replaced, or its use discontinued within the time required by rule or the 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 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.

Soils

SITE AND DRAWING  
AND  
SOILS  
Robert Holm

North  
Scale 1"=40'

B-2  
0-5" Top Soil/Sandy loam  
10yr 3/3  
5'-60" Sandy loam  
10yr 5/4

B-2  
0-5" Top Soil/Sandy  
loam 10yr 3/3  
5'-60" Sandy loam  
10yr 5/4

