



**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

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

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

For local tracking purposes:

### System Status

System status on date (mm/dd/yyyy): 4/29/2020

**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: 09.029.21.24.0010

Property address: 8298 WINDBREAK TRL, LAKE ELMO Reason for inspection: Property Sale

Property owner: Karen Matzke Owner's phone: \_\_\_\_\_

or  
Owner's representative: \_\_\_\_\_ Representative phone: \_\_\_\_\_

Local regulatory authority: \_\_\_\_\_ Regulatory authority phone: \_\_\_\_\_

Brief system description: Septic Tank - Pump Tank - Drainfield Trenches

**Comments or recommendations:**

Drainfield does not have adequate separation for proper treatment. Course gravel found at 36 inches. Drainfield trenches are at 30-36 inches.

### 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: Chris Bosshart Certification number: C2487

Business name: Environmental Design Group, Inc License number: L1955

Inspector signature:  Phone number: 651-341-6938

### Necessary or Locally Required Attachments

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

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.<br><i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sewage tank(s) leak below their designed operating depth.<br>If yes, which sewage tank(s) leaks:   | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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

Comments/Explanation:

Tanks were not pumped at the time of inspection.

**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 be 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:

**4. Soil Separation – Compliance component #4 of 5**

**Date of installation:** \_\_\_\_\_  Unknown  
(mm/dd/yyyy)

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:<br><br>Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 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:<br><br>Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.* | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| "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)<br><br>Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

**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:**

**Indicate depths or elevations**

|  |                         |
|--|-------------------------|
| A. Bottom of distribution media        | 30 - 36 inches          |
| B. Periodically saturated soil/bedrock | 36 inches course gravel |
| C. System separation                   | 0                       |
| D. Required compliance separation*     | 36 inches               |

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

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

**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: _____<br>Have the Operating Permit requirements been met? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| b. Is the required nitrogen BMP in place and properly functioning?                    | <input type="checkbox"/> Yes <input type="checkbox"/> 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.



| Client/ Address: Karen Matzke, 8298 Windbreak Tr, L. Elmo   |                   | Legal Description/ GPS: 09.029.21.24.0010 |                 |                 |               |              |                      |               |             |
|---|-------------------|---|-----------------|-----------------|---------------|--------------|----------------------|---------------|-------------|
| Soil parent material(s): (Check all that apply) <input checked="" type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter |                   |   |                 |                 |               |              |                      |               |             |
| Landscape Position: (check one) <input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope Slope shape   |                   |   |                 |                 |               |              |                      |               |             |
| Vegetation  | Grass             | Soil survey map units                     | 155C            |                 |               |              |                      |               |             |
| Weather Conditions/Time of Day: Sunny Afternoon   |                   | Slope%                                    | 6.0             |                 |               |              |                      |               |             |
| Observation #/Location: SB1   |                   | Date                                      | 04/29/20        |                 |               |              |                      |               |             |
| Observation Type:   |                   | Auger                                     |                 |                 |               |              |                      |               |             |
| Depth (in)  | Texture           | Rock Frag. %                              | Matrix Color(s) | Mottle Color(s) | Redox Kind(s) | Indicator(s) | ----- Structure----- |               |             |
|   |                   |   |                 |                 |               |              | Shape                | Grade         | Consistence |
| 0-16  | Loam              |   | 10YR 3/2        |                 |               |              | Granular             | Weak          | Friable     |
| 16-24   | Sandy Loam        |   | 10YR 5/6        |                 |               |              | Granular             | Weak          | Loose       |
| 24-36   | Silty Clay Loam   |   | 10YR 4/6        |                 |               |              | Blocky               | Moderate      | Friable     |
| 36  | Coarse Sandy Loam | 35-50%                                    | 10YR 4/6        |                 |               |              | Granular             | Structureless | Loose       |
| Comments: Course gravel @ 36" - restricting layer   |                   |   |                 |                 |               |              |                      |               |             |
| I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.  |                   |   |                 |                 |               |              |                      |               |             |
| Chris Bosshart  |                   |   |                 |                 |               | 1955         |                      | 4/29/2020     |             |
| (Designer/Inspector)  |                   |   | (Signature)     |                 |               | (License #)  |                      | (Date)        |             |



## Washington County, Minnesota

### 155C—Chetek sandy loam, 6 to 12 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1t93x  
*Elevation:* 800 to 1,950 feet  
*Mean annual precipitation:* 27 to 33 inches  
*Mean annual air temperature:* 39 to 46 degrees F  
*Frost-free period:* 135 to 180 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Chetek and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Chetek

##### Setting

*Landform:* Pitted outwash plains  
*Landform position (two-dimensional):* Shoulder  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Outwash

##### Typical profile

*Ap - 0 to 8 inches:* sandy loam  
*E - 8 to 14 inches:* loam  
*Bt - 14 to 19 inches:* gravelly sandy loam  
*2BC,2C - 19 to 60 inches:* gravelly coarse sand

##### Properties and qualities

*Slope:* 6 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Somewhat excessively drained  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.57 to 5.95 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water storage in profile:* Low (about 3.7 inches)

##### Interpretive groups

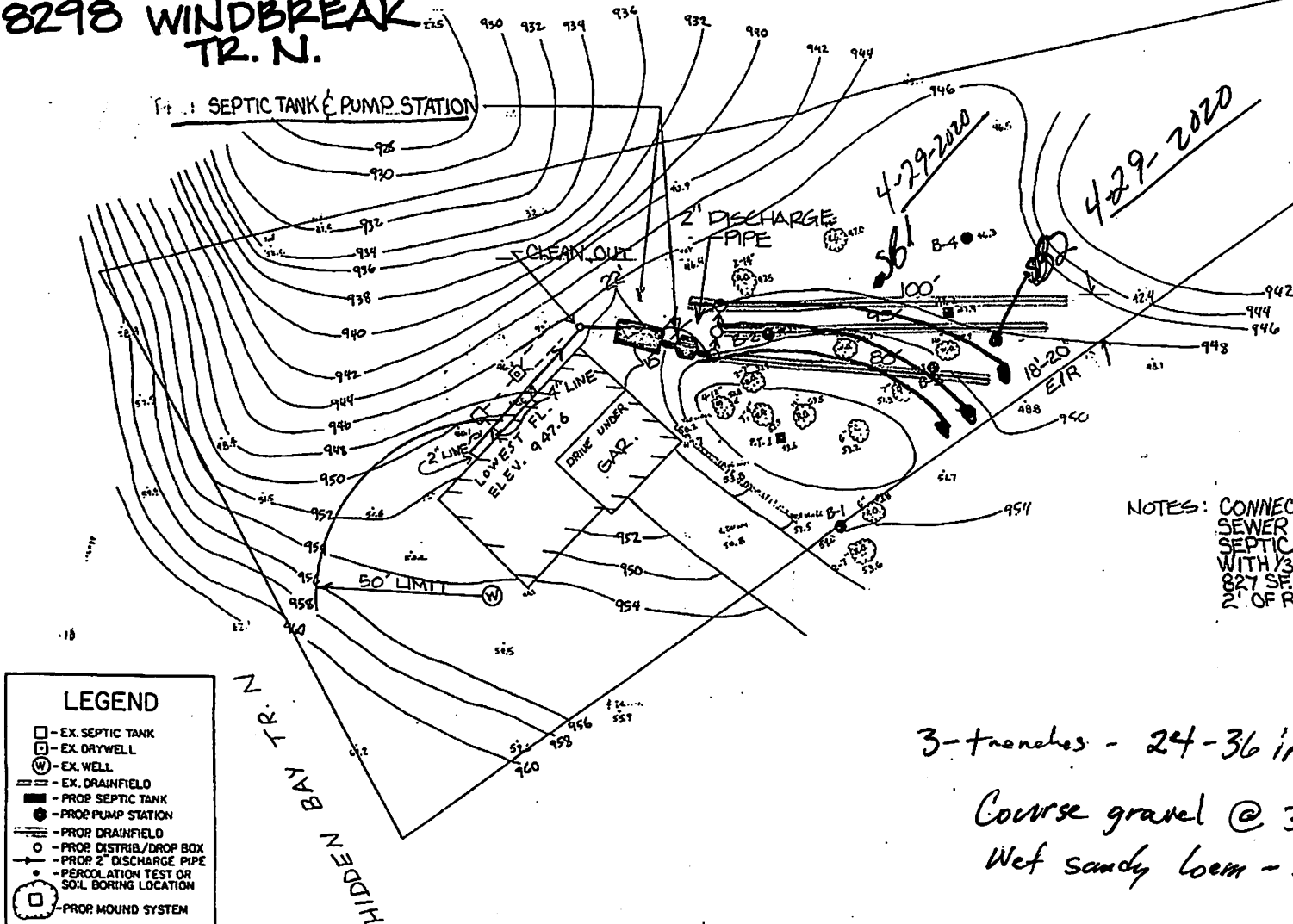
*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* A  
*Forage suitability group:* Sandy (G090XN022MN)  
*Hydric soil rating:* No

7020

# 8298 WINDBREAK TR. N.

SEPTIC TANK & PUMP STATION

WINDBREAK TRAIL N.  
1"=30'



NOTES: CONNECTED TO A 2" AND A 4" BUILDING SEWER AT HOUSE. INSTALLED 1250 GAL. SEPTIC TANK. 500 GAL PUMP STATION WITH 1/3 H.P. PUMP. 827 SF. OF 3" WIDE TRENCHES WITH 2' OF ROCK UNDER PIPE.

3-trenches - 24-36 in depth  
 Course gravel @ 36" L35% course  
 Wet sandy loam - 16"-24"

**LEGEND**

- - EX. SEPTIC TANK
- - EX. DRYWELL
- ⊙ - EX. WELL
- ▭ - EX. DRAINFIELD
- ▭ - PROP. SEPTIC TANK
- ⊙ - PROP. PUMP STATION
- ▭ - PROP. DRAINFIELD
- - PROP. DISTRIB./DROP BOX
- - PROP. 2" DISCHARGE PIPE
- - PERCOLATION TEST OR SOIL BORING LOCATION
- ⊙ - PROP. MOUND SYSTEM

DRAWN BY: DATE: CHECKED BY: DATE: REVISIONS: BY: DATE:

|     |      |    |             |
|-----|------|----|-------------|
| NO. | DATE | BY | DESCRIPTION |
|     |      |    |             |
|     |      |    |             |

DESIGNED: LOB DLW  
 CHECKED: LOB  
 DATE: 11-11-2011

**TKDA**  
 ENGINEERS ARCHITECTS PLANNERS  
 TOLZ KING, DUNN, ANDERSON AND ASSOCIATES INCORPORATED  
 SAINT PAUL, MINNESOTA

Wastewater Facilities Improvements  
 Lake Elmo, Minnesota  
 EPA Project No. C 271411

7020  
 SHEET NO. 10 OF 107 SHEETS

COMMISSION NO.  
 8064

