



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.

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): 7/2/2014

[X] 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: 11-0-067608

Property address: 45502 228th St

Reason for inspection: property sale

Property owner: Susan duffney

Owner's phone:

or

Owner's representative:

Representative phone:

Local regulatory authority: Aitkin county

Regulatory authority phone:

Brief system description: septic tank, lift tank, 10 x 50 mound

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.

Inspector name: LouAnn Maschler/Dan Maschler

Certification number: 2264/7097

Business name: Maschler Septic Consultants

License number: L2264

Inspector signature: Dan Maschler

Phone number: 218-839-3042

Necessary or Locally Required Attachments

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

[ ] Other information (list):

**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
<b>Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.</b>	

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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	
<b>Any "yes" answer above indicates the system is Failing to Protect Groundwater.</b>	

Comments/Explanation:

**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:

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

Date of installation: \_\_\_\_\_  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:

**Indicate depths of elevations**

A. Bottom of distribution media	1.5' sand
B. Periodically saturated soil/bedrock	1.5'
C. System separation	3'
D. Required compliance separation*	3'

\*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: \_\_\_\_\_  Yes  No  
 Have the Operating Permit requirements been met?

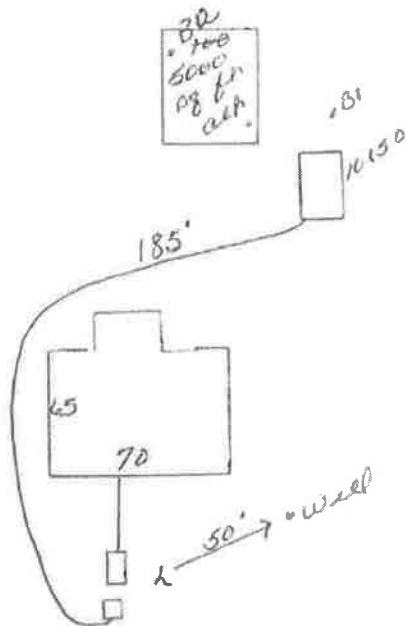
b. Is the required nitrogen BMP in place and properly functioning?  Yes  No

**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.

SITE SKETCH

NAME Duffney RE 10 11-0-067608



Soil Boring #1

0-4	Topsail	10.12	3/3
4-18	loom	7.5	1R 4/6

Soil Boring #2 *alternate site*

<i>same as #1</i>			
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System appears to be working and is in compliance with MN 7080 on the date of inspection. The inspection in no way warrants the system and its functioning beyond this date.

GPS Coordinates:

Tank: X \_\_\_\_\_ Y \_\_\_\_\_  
 Drainfield: X \_\_\_\_\_ Y \_\_\_\_\_  
 Well: X \_\_\_\_\_ Y \_\_\_\_\_

## Site Suitability Form

Property Owner: Susan Duffney Date: 7-2-14  
 Mailing Address: 45502 228th St  
 City/State/Zip: Critch, MN 56431  
 Home Phone Number: - - - Cell: 218-330-1729

Site Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_

Legal Description: \_\_\_\_\_  
 Sec. 31 Twp: 45 Range: 27 Township Name: Kayelton  
 Parcel Number: 11-0-067601

Lake/River: Big Round Lake Lake/River Classification: \_\_\_\_\_

### Description of Soil Treatment Areas

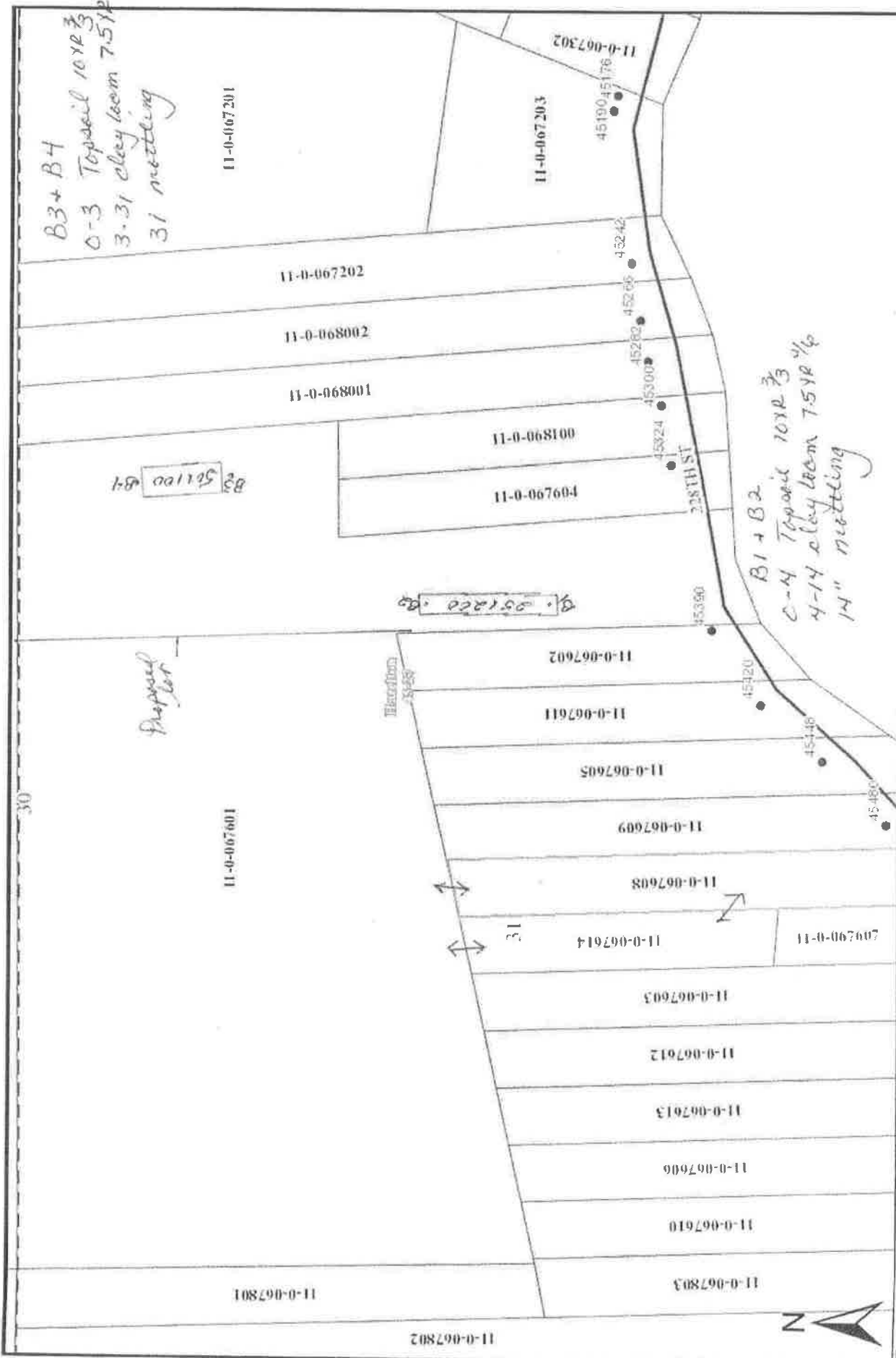
	(Proposed) Site #1		(Alternate) Site #2	
Disturbed Areas	Yes _____	No <u>X</u>	Yes _____	No <u>X</u>
Compacted Areas	Yes _____	No <u>X</u>	Yes _____	No <u>X</u>
Flooding	Yes _____	No <u>X</u>	Yes _____	No <u>X</u>
Run on Potential	Yes _____	No <u>X</u>	Yes _____	No <u>X</u>
Limiting Layer Depth SB1	<u>1/4"</u>	SB2 <u>1/4"</u>	SB1 <u>30"</u>	SB2 <u>30"</u>
Slope %	_____		_____	
Direction of Slope	_____		_____	

Soil Sizing Factors							
Perc. Rate	Texture	SSF	GPD/Sq.Ft.	Perc. Rate	Texture	SSF	GPD/Sq.Ft.
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
6 to 15	Sandy Loam	1.27	0.79	> 60	Clay Loam	****	0.24

Soil Texture	<u>Clay loam</u>	<u>clay loam</u>
Soil Sizing Factor	<u>2.2</u>	<u>2.2</u>
Landscape Position	_____	_____
Vegetation Types	<u>wooded</u>	<u>wooded</u>

Print Designer Name and License Number: Lou Ann Maschler  
 Home Phone Number: - - - Cell: 218-839-3042

Designer Signature: Lou Ann Maschler Date: 7-2-14  
 Comments/ Driving Directions: \_\_\_\_\_



B3 + B4  
 0-3 Topsoil 10YR 3  
 3-31 clay loam 7.5YR 1/4  
 31 netting

B3  
 561100  
 B4

B1  
 561200  
 B2

B1 + B2  
 0-4 Topsoil 10YR 3  
 4-14 clay loam 7.5YR 1/4  
 14" netting

These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

