



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): 7/26/2017

[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:

Property address: 12780 181st St N Marine on St Croix 55047

Reason for inspection: Sale

Property owner: Charles Webber

Owner's phone: charlie.webber1948@outlook.com

or

Owner's representative:

Representative phone:

Local regulatory authority: Washington County

Regulatory authority phone: 651-430-6655

Brief system description: 1200 gallon septic tank, 1000 gallon lift station, distribution box and rock trench drainfield

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: Benjamin Zierke

Certification number: 9594

Business name: Zierke Soil Testing

License number: 119

Inspector signature: [Signature]

Phone number: 651-249-1346

Necessary or Locally Required Attachments

- [X] Soil boring logs [X] System/As-built drawing [ ] Forms per local ordinance
[X] Other information (list): Pumping Report

**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:**

Charles did not report any issues with the system.

**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:**

Tanks were pumped by Olson's 7/11/2017. See attached.

**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: 1977  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:  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.

**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	96.6'
B. Periodically saturated soil/bedrock	93.0'
C. System separation	3.6'
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.**

**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.

## Logs of Soil Borings

Location of Project: 12780 Marine on St Croix 55047

Borings Made by Ben Zierke

Date: 7/21/2017

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-----	-----
0-6"	7.5YR 3/3 loamy sand	0-4"	10YR 3/3 loamy sand
6-30"	7.5YR 5/4 fine sand	4-24"	10YR 4/4 loamy sand with fine lamellic bands
30-58"	7.5YR 5/4 medium sand	24-27"	10YR 5/6 clay loam
58-76"	7.5YR 5/4 loamy fine sand	27-42"	7.5YR 5/4 fine sand
76-84"	7.5YR 4/4 sandy loam, light redox present at 84"	42-66"	7.5YR 4/4 fine sand
		66-78"	5YR 4/4 fine sand with silty layers 1-2 inches thick, redox at 72"

End of boring at 7 feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at 7 feet of depth \_\_\_\_\_  
 Mottled soil not present in bore hole   
 Comments:

End of boring at 6.5 feet  
**Standing water table:**  
 Present at \_\_\_\_\_ feet of depth \_\_\_\_\_ Hours after boring  
 Standing water not present in hole   
**Mottled Soil:**  
 Observed at 6 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:

Relative Elevations (in feet)

B1: 100.0, redox 93.0

B2: 97.5, redox 91.5

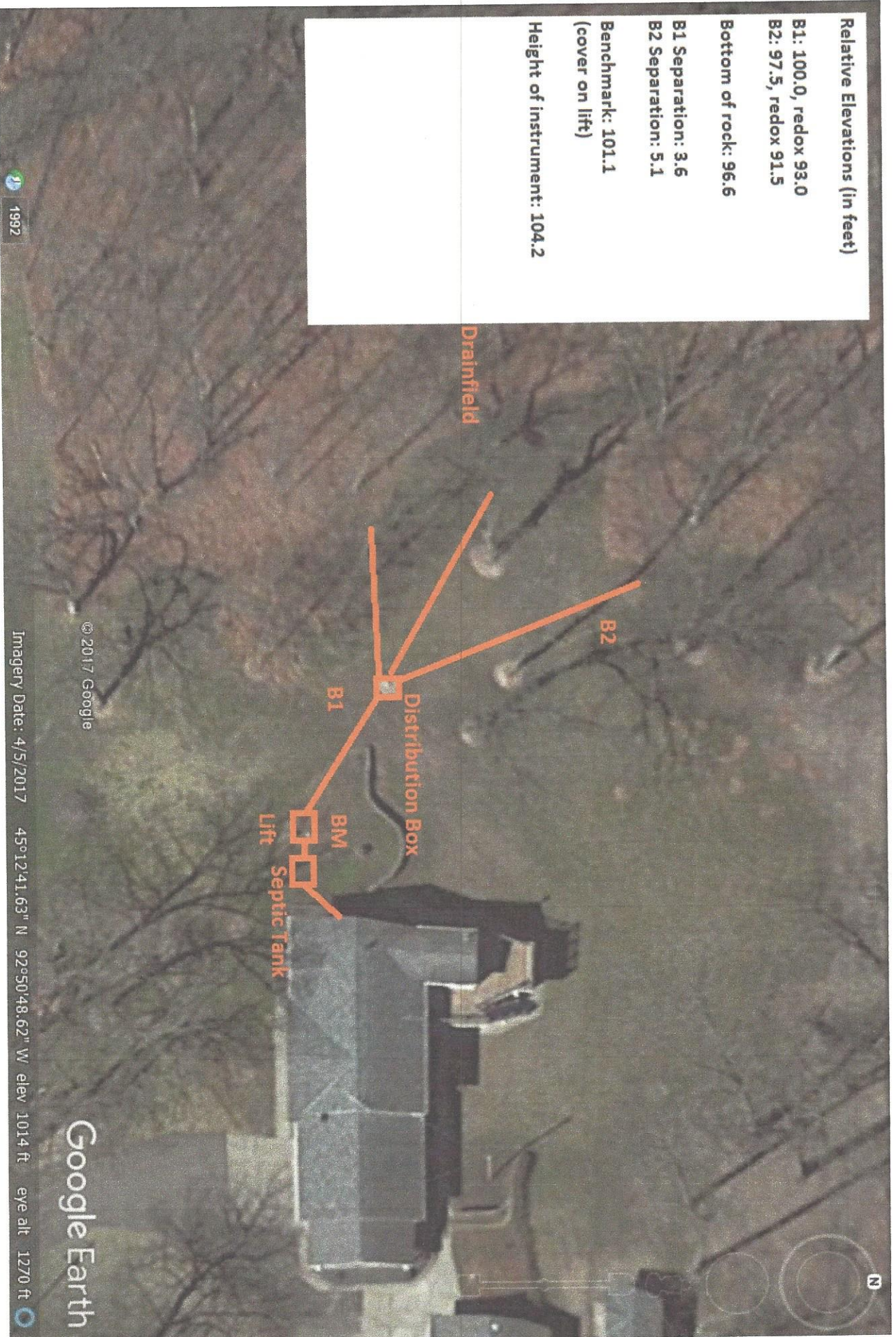
Bottom of rock: 96.6

B1 Separation: 3.6

B2 Separation: 5.1

Benchmark: 101.1  
(cover on lift)

Height of instrument: 104.2



© 2017 Google

Imagery Date: 4/5/2017

45°12'41.63" N 92°50'48.62" W elev 1014 ft eye alt 1270 ft

Google Earth

1992

# Service Order

Service Order #: 82501

Olson's Sewer Service, Inc. 17638 Lyons Street N.E. Forest Lake, MN 55025 651-464-2082

Date:  Preferred Time:  Important Note: **Road Restrictions (Tons)**

**Addr:** 12780 181st Street North

**Name:** Charles Weber      C1: (651) 238-4451 Charles  
**City:** Marine, MN 55047      C2: (651) 433-2089 Lois  
**Cty:** Washington  
**Twp:** New Scandia

No televising necessary; Greg Cardinal came to site to explain the system and how it functions. No digging or televising of pump line necessary.

Driving Dir							
Tank Type	Pre-cast	<b>PreT</b>	<b>T1</b>	<b>T1C</b>	<b>T2</b>	<b>T3</b>	<b>LS</b>
Treatment Type	Trench	Sizes:	1200				1000
Treatment Area	630Sq Ft	Depth to MH:	Grade				Grade
<input type="text" value="1"/>		Riser Feet:					
Dist to Lift Tank		LS Outlet to Bottom:					

Water Meter	<input type="text"/>	Power Disconnect at Lift	<input type="text"/>						
Effluent Filter	<input type="text"/>	Looped	<input type="text"/>	Covers Secure:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Two Techs	<input type="text"/>	# Bedrooms	3	Infiltration ↑ OL:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
City Sewer	N	Pump Breaker	<input type="text"/>	Infiltration ↓ OL:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Install Date	11/2/1977	<b>Baseline Equal Dist Hgt</b>		Scum Depth:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Installer	Duane Cardinal	1	4	Sludge Depth:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
As Built	Pg. W. 1288	2	5	Inlet Baffle Intact:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cleanout	<input type="text"/>	3	6	Outlet Baffle Intact:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lift Pump	<input type="text"/>			Pump Function:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				Alarm Function:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				Filter Alarm Function:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Service Type	Last Service Date	Mobilize Time	At Site Time	Complete Time	Disposal Time	Leave Disposal Time
1 Lift Station Maintenance		2:25 PM	3:10 PM	4:10 PM		
2 Maintenance Pumping						
3 LUG Permit						

Time Dosing	<input type="text"/>	Iron Filter	<input type="text"/>	S&E Quality	<input type="text"/>	Eq Dist Hgt 1	<input type="text"/>			
Lint Filter	<input type="text"/>	Sump Pump	<input type="text"/>	PH Reading	<input type="text"/>	2	<input type="text"/>	Readings	Previous	Functioning
Switch Tree	<input type="text"/>	Ejector Pump	<input type="text"/>	Non Dom Wastes	<input type="text"/>	3	<input type="text"/>	Event/Cycle Ctr	<input type="text"/>	<input type="text"/>
Event Counter	<input type="text"/>	Mgmt Plan	<input type="text"/>	TA Visual Insp	<input type="text"/>	4	<input type="text"/>	Elapsed Time	<input type="text"/>	<input type="text"/>
Garbage Disp.	<input type="text"/>	Monitoring	<input type="text"/>			5	<input type="text"/>	Time Dosing	<input type="text"/>	<input type="text"/>
Water Softener	<input type="text"/>	Irrigation	<input type="text"/>			6	<input type="text"/>	Water Meter	<input type="text"/>	<input type="text"/>

<b>Dump Site</b>	<b>Gal Pumped</b>	CSR	NS	Reminder	7/11/2020
Metro	1300	Garden Hose	Y	Lift Station Last Service	
<b>Total:</b>	<b>1300</b>	FollowUp	<input type="text"/>	Vehicle	09
		Septage	<input type="text"/>	Service Person	BD
		Sewage Type Disposed	<input checked="" type="checkbox"/>	Inv #	11289
		Amt Billed	397.00	Payment Type	check 9185

**Service Order Comments:** Manhole covers at grade NS did quote \$450.00 plus \$17.00 for the Washington Co Permit

**Site Comments:** Owner states he has two tanks and one does have a pump in it; this system has a distribution box, not dropbox distribution

**Post Comments:**