



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): 5/18/2017

[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: 20691 Jewel Ave N Forest Lake, MN 55025 Reason for inspection: Sale

Property owner: Amy Youngberg Owner's phone: 651-592-4076

or

Owner's representative: Representative phone:

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6000

Brief system description: 1350 gallon pre cast septic tank and gravity rock trench drainfield

Comments or recommendations:

Age of system (page 3) estimated based on age of home. Assume original system.

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
[] 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.

- 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)

Comments/Explanation:
Amy did not report any issues with the system.

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.

- 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)

Comments/Explanation:
Tank pumped by Olson's 9/20/2016. See attached.

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	99.1
B. Periodically saturated soil/bedrock	96.4+
C. System separation	2.7+
D. Required compliance separation*	2.0

*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.

Service Order

Service Order #: 79448

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

Date: 9/20/2016 **Preferred Time:** 11:00 AM 2:00 PM **Important Note:** Road Restrictions (Tons)

Addr: 20691 Jewel Avenue North

Name: Amy Yarbrough **H:** (651) 592-4076

City: Forest Lake, MN 55025

Cty: Washington

Twp: Forest Lake

Driving Dir	Has horseshoe drive; can park by 2nd turn in area. Is third driveway off of 97.						
Tank Type	Pre-cast	PreT	T1	T1C	T2	T3	LS
Treatment Type	Trench	Sizes:	1350				
Treatment Area		Depth to MH:	Grade				
	1 150 Ft	Riser Feet:					
Dist to Lift Tank		LS Outlet to Bottom:					

Water Meter		Power Disconnect at Lift							
Effluent Filter		Looped		PreT	T1	T1C	T2	T3	LS
Two Techs		# Bedrooms		Covers Secure:	Y				
City Sewer	N	Pump Breaker		Infiltration ↑ OL:	N				
Install Date				Infiltration ↓ OL:	N				
Installer		Baseline Equal Dist Hgt		Scum Depth:	1				
		1	4	Sludge Depth:	3				
As Built		2	5	Inlet Baffle Intact:	Y				
Cleanout		3	6	Outlet Baffle Intact:	Y				
Lift Pump				Pump Function:					
				Alarm Function:					
				Filter Alarm Function:					

Service Type	Last Service Date	Mobilize Time	At Site Time	Complete Time	Disposal Time	Leave Disposal Time
1 Maintenance Pumping	7/30/2013	1:25 PM	2:00 PM	2:47 PM		
2 LUG Permit	7/30/2013					

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

Dump Site	Gal Pumped	CSR	NS	Reminder	9/20/2019
Metro	1300	Garden Hose	Y	Holding	Lift Station Last Service
Total:	1300	FollowUp		Septage	Tank
		Sewage Type Disposed	X	Commercial	Vehicle
		Amt Billed	397.00	Payment Type	Check 5791
		Service Person		Inv #	10634

Service Order Comments: will have manhole cover exposed which is just under some mulch, Please go in the time frames stated above as she would like late morn/early afternoon. NS did quote \$380.00 plus the \$17.00 permit

Site Comments: 1975 system

Post Comments: Also pumped distribution box. Needs to trim trees before we go here next time in 2019.

Logs of Soil Borings

Location of Project: 20691 Jewel Ave N Forest Lake, MN 55025

Borings Made by Ben Zierke

Date: 5/11/2017

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"	10YR 3/3 loamy sand	0-6"	10YR 3/3 loamy sand
6-66"	10YR 4/4 medium sand, 20% coarse fragments	6-66"	10YR 4/4 loamy sand, 5-10% coarse fragments, fine loamy bands below 36"

End of boring at 5.5 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 5.5 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:

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:

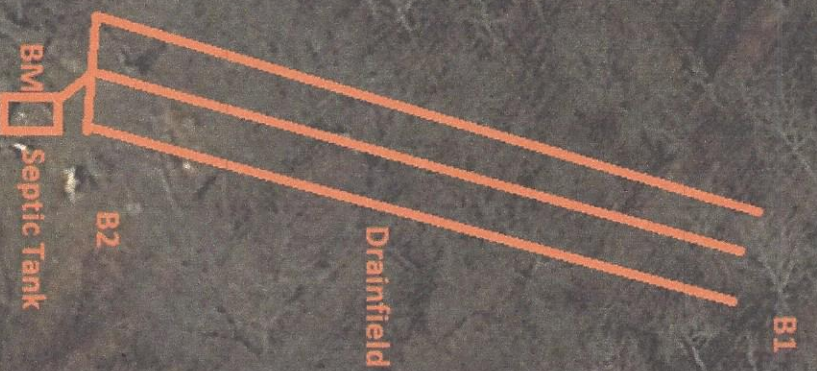
End of boring at _____ feet
Standing water table:
 Present at _____ feet of depth _____ Hours after boring
 Standing water not present in hole
Mottled Soil:
 Observed at _____ feet of depth
 Mottled soil not present in bore hole
 Comments:

3/2016

 1991 2016

Relative Elevations (in feet)

B1: 100.0', redox 94.5'+
 B2: 101.9', redox 96.4'+
 Top of rock: 100.6'
 Bottom of rock: 99.1'
 B1 Separation: 4.6'+
 B2 Separation: 2.7'+
 Benchmark: 100.6'
 (top of cover on septic tank)
 Height of instrument: 107.3



Imagery Date: 3/11/2016 45°14'57.98" N 92°54'41.49" W elev 1045 ft eye alt 1407 ft