



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.

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): 12/19/2016

[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: 3502820220005

Property address: 16199 50TH ST S, CITY OF AFTON

Reason for inspection: PROPERTY TRANSFER

Property owner: BURDINE TRUETT W & LAURIE A

Owner's phone:

or

Owner's representative:

Representative phone:

Local regulatory authority: WASHINGTON COUNTY

Regulatory authority phone:

Brief system description: 1200 GALLON SEPTIC TANK AND GRAVITY 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: Ryan Lashinski

Certification number: 3053

Business name: Lashinski Services

License number: 65

Inspector signature: [Signature]

Phone number: 612-919-3704

Necessary or Locally Required Attachments

- [X] Soil boring logs (4) [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 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. <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 PUMPED FOR PURPOSE OF COMPLINCE

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: 1/1/1988 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	<input checked="" 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: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	<input type="checkbox"/> Yes <input type="checkbox"/> No
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7000, 2350 or 7080, 2400 (Advanced Inspector License required) 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:

SEE ATTACHED

Indicate depths or elevations

A. Bottom of distribution media	20-24"
B. Periodically saturated soil/bedrock	<60"
C. System separation	>24"
D. Required compliance separation*	24"

*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: _____ 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.

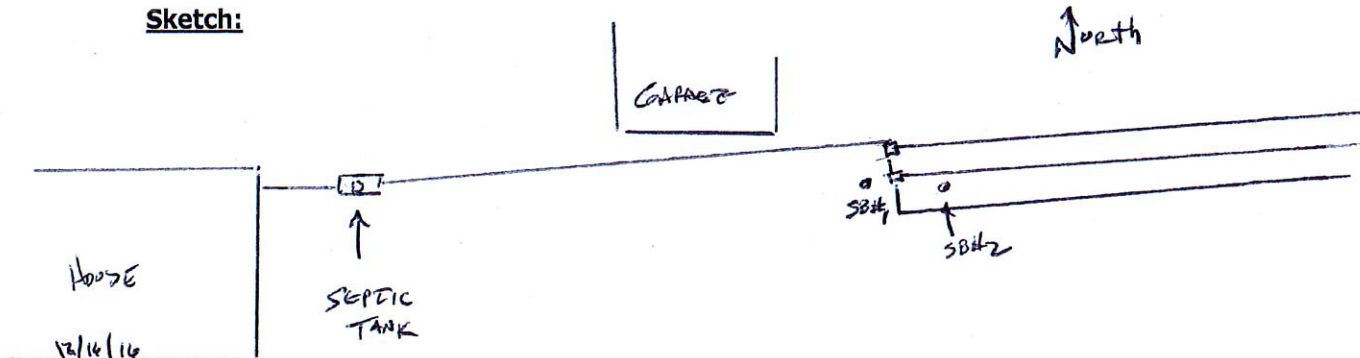


Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 16199 50th Street, Afton

Boring #1 Elevation:	Boring #2 Elevation:	Boring #3 Elevation:
0-20 10YR 3/4, 4/4 dark yellowish brown sandy clay loam.		
-66 10YR 5/6 dark yellowish brown sandy clay loam and clay loam. 10YR 5/6 sandy clay loam and gravel. No redoximorphic mottling observed. Soil moist.		

Sketch:



Comments: The system consists of a 1200-gallon septic tank and gravity drainfield trenches. Previous soil verifications show that the system does meet the required 24" vertical separation from seasonally saturated soils. The tank was pumped for this inspection and is watertight. The baffles are in place. Soil borings and probe samples taken into and around the rock trenches indicated some wet conditions, however typical for a gravity fed system of this age. It should be noted, however, that the house was sitting vacant prior to and during this inspection. This inspection is not a warranty or guarantee, either written or implied, of future or long-term hydraulic functionality/performance or other portions of system compliance, but rather a determination if the systems use is/may cause pollution and/or adverse harm to the environment, groundwater or public health and safety at the time of this inspection. No guarantee can be made on future performance (or compliance), or the performance of system components, based on this inspection. Buyers should be aware of the age of this system (built in 1988) as it is likely near or beyond its expected life expectancy. Changes in use can cause any system, failing or compliant, to become hydraulically overloaded and ultimately fail. Owner/buyer assumes full responsibility for the long-term performance of this system as well as any future upgrade, repairs or replacement costs. Liability is limited to the cost of this inspection.

OF COUNTY BUILDING OFFICIAL

St. of High-114
Sec. 35, T28N R20W

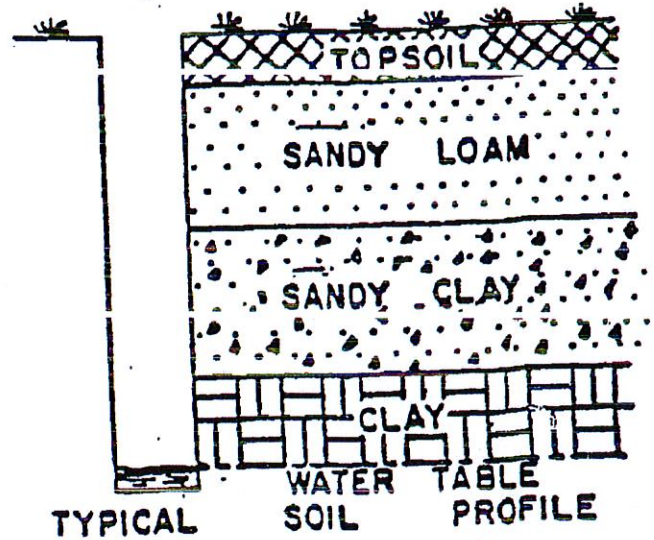
-SOIL BORINGS-

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



Wooded Site; Auger Borings 12/5/86 R Johnson (Supplemental Borings)

LOG OF SOIL BORINGS

BORING NO. 1C		BORING NO. 2C		BORING NO. 3C		BORING NO. 4C	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Grayish brown Fh Sandy Loam	0	Very Dark Grayish Brown Fh Sandy Loam	0	Grayish brown Fh Sandy Loam	0	Grayish brown Loamy Fh Sand
1/2	brown Silt Loam	1/2	Fh Sandy Loam	1/2	Pale brown Silty Sand	1/2	Light brown Loamy Sand
1		1	Light brown	1	Brown Silty Sand	1	Pale Brown Silty Fh Sand
1 1/2	Dark Brown	1 1/2	Silt	1 1/2	Silty Sand	1 1/2	Pale Brown
2		2		2	Dark Brown Silt Loam	2	Very Fine Silty Sand
2 1/2	Silt Loam	2 1/2	Dark Brown	2 1/2		3	Dark Brown
3		3	Silt Loam	3	Reddish Brown	3 1/2	Silt
3 1/2		3 1/2	Dark brown Sandy Loam,	4	Loamy Sand	4	
4	Dark brown Sandy Loam	4	Sandy Cl Loam	4 1/2	Brown	4 1/2	stone obstruction @ 5"
4 1/2		4 1/2		5	Silty Sand	5	
5	Brown Sand (seams)	5	Dark Brown Silty Sand	5 1/2		5 1/2	
5 1/2		5 1/2		6	Brown	6	
6	Brown Silty Sand	6	brown Silt	6 1/2	Fine Sand	6 1/2	
6 1/2		6 1/2		7		7	
7		7	stone obstruction @ 30"	7 1/2		7 1/2	
7 1/2	Brown Loamy Sand	7 1/2		8		8	
8		8		8 1/2		8 1/2	
8 1/2		8 1/2		9		9	

LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	DARK BROWN FINE SILTY CLAY	0	DARK BROWN FINE SILTY (SAND)	0	DARK GREY - FINE SILTY LOAM	0	DARK GREY - BROWN FINE SILTY LOAM
20"	LT. BROWN - TAN - FINE SILTY SAND	12"	LT. BROWN FINE SILTY SAND	3"	LT. BROWN TAN FINE SILTY LOAM SAND - ROCKS	4"	LT. BROWN - TAN - FINE SILTY LOAM ROCKS
36"	LT. BROWN FINE SILTY LOAM	24"	LT. BROWN FINE SILTY LOAM	16"	LT. BROWN FINE SILTY CLAY LOAM (VERY DRY)	24"	LT. BROWN - FINE LOAMY SAND & ROCKS
42"	LT. YELLOW - BROWN FINE SILTY LOAM	30"	LT. YELLOW BROWN FINE SILTY CLAY LOAM	44"	RED BROWN SANDY LOAM ROCKS - GRAVEL	30"	DARK RED - FINE SAND & ROCKS
48"	LT. YELLOW - BROWN FINE SILTY CLAY LOAM	59"	LT. BROWN FINE SILTY CLAY (IRON STAIN) (MOTTLED) (VERY STICK)			36"	RED BROWN SANDY CLAY LOAM
57"	LT. YELLOW TAN - FINE SILTY LOAM CLAY SILTS					45"	RED BROWN SANDY LOAM & ROCKS
(64")	LT. BROWN - TAN - FINE SILTY LOAM (IRON STAIN) (MOTTLED) (STICK)					62"	
6:0"		62"		63"			

END B-1

END B-2

OBSTRUCTION 63"

OBSTRUCTION 62"

4. Soil Separation – Compliance component #4 of 5

Date of installation: 05/1988 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes 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.

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.

- 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)

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.*

Comments/Explanation:

"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.

Indicate depths or elevations

A. Bottom of distribution media	97'1"
B. Periodically saturated soil/bedrock	>92'7"
C. System separation	>24"
D. Required compliance separation*	24"

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

*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.



Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 2290 158 Avenue NW Andover

Boring #1 Elevation: 98'7"		Boring #2 Elevation: 100'9"		Boring #3 Elevation:
0-24	10YR 3/4 yellowish brown fine sandy loam	0-24	10YR 3/4 yellowish brown fine sandy loam	
-76	7.5YR 5/6 strong brown fine sandy loam. No redoximorphic mottling observed. Soil dry	-76	7.5YR 5/6 strong brown fine sandy loam. No redoximorphic mottling observed. Soil dry	

Sketch:



Comments: Benchmark = bottom of distribution pipe in drainfield trench #1. Assumed elevation = 100.0'. Top of rockbed in trench #3 = 9'0". Soil borings #1 and #2 indicated no signs of redoximorphic mottling at a depth of 36" beneath the rockbed of the drainfield. The system does meet the required two-foot vertical separation from seasonally saturated soils. The system consists of a 1200-gallon septic tank and gravity drainfield. Probe samples taken in the rockbed of the drainfield indicated dry conditions with no signs of excess moisture or ponding in any of the three trenches. The liquid level was at or below the outlet of the trenches in both drop boxes. The septic tanks were not pumped at the time of this inspection. Sludge measurements indicated less than 20% solids present in the tank. This inspection is not a warranty or guarantee, either written or implied, of future hydraulic performance, but rather an assessment of whether the systems use, at the time of this inspection, is causing any adverse harm to the environment, groundwater or public health and/or safety. The buyers should be aware of the age of the system (25 years), as the system is likely at or near the end of its expected life. Changes in use can cause any system, whether compliant or noncompliant, to become hydraulically overloaded and ultimately fail. Buyer assumes full responsibility of future hydraulic functionality and/or future replacement costs.