

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): June 26, 2017

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: 31-0-069600 35-47-26

Property address: 34202-362^{N&O} Place Aitkin, Mn. 56431

Reason for inspection: Property Transfer

Property owner: Lisa M. Johnson
or

Owner's phone: 612-599-9733

Owner's representative: _____

Representative phone: _____

Local regulatory authority: Aitkin County

Regulatory authority phone: 218-927-7342

Brief system description: 4 bedroom mound with 2 foot sand base, 1860 septic tank & 1500 pump tank

Comments or recommendations: Clean Filter every spring and fall, Pump tanks every 2-3 years

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: Tom O'Neil

Certification number: C3365

Business name: _____

License number: L2132

Inspector signature: Tom O'Neil

Phone number: 218-927-6070

Necessary or Locally Required Attachments

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

Other information (list): County As built, County Soils from inspection, soil borings

From this inspection and their location

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 |

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Comments/Explanation: Home owner said everything works fine

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: | |

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation: Tank compartments were full at the proper operating level and the pump tank was very clean.

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: everything looked fine

- c. System is non-protective of ground water for other conditions as determined by inspector Yes* No

***System is failing to protect groundwater**

Explain:

Property address: 34202-362nd Place Aitkin, Mn. 56431

Inspector initials/Date: T.O. 6/26/2017

4. Soil Separation – Compliance component #4 of 5

Date of installation: 9/13/2006 Unknown
 Shoreland/Wellhead protection/Food Beverage Lodging? Yes No

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

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: *borings should not have to be done again. Attached are county inspectors boring and borings from this inspection*

| Indicate depths of elevations | Boring #2 | Boring #1 |
|--|-----------|-----------|
| A. Bottom of distribution media | 24" | 24" |
| B. Periodically saturated soil/bedrock | 13" | 12" |
| C. System separation | 37" | 36" |
| D. Required compliance separation* | 31" | |

*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: _____ | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 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.

SOILS DATA

| DEPTH (INCHES) | TEXTURE | MUNSELL COLOR |
|-------------------|-----------------|------------------|
| 0-6 | Loam | 10yr 3/2 |
| 6-14 | Silty Clay loam | 10yr 5/2-5/4 |
| Mottles at 12" | | |

SOILS DATA

| DEPTH (INCHES) | TEXTURE | MUNSELL COLOR |
|-------------------|-----------------|------------------|
| 0-7 | Loam | 10yr 2/2 |
| 7-16 | Silty Clay loam | 10yr 5/2-5/4 |
| mottles at 13" | | |

SOILS DATA

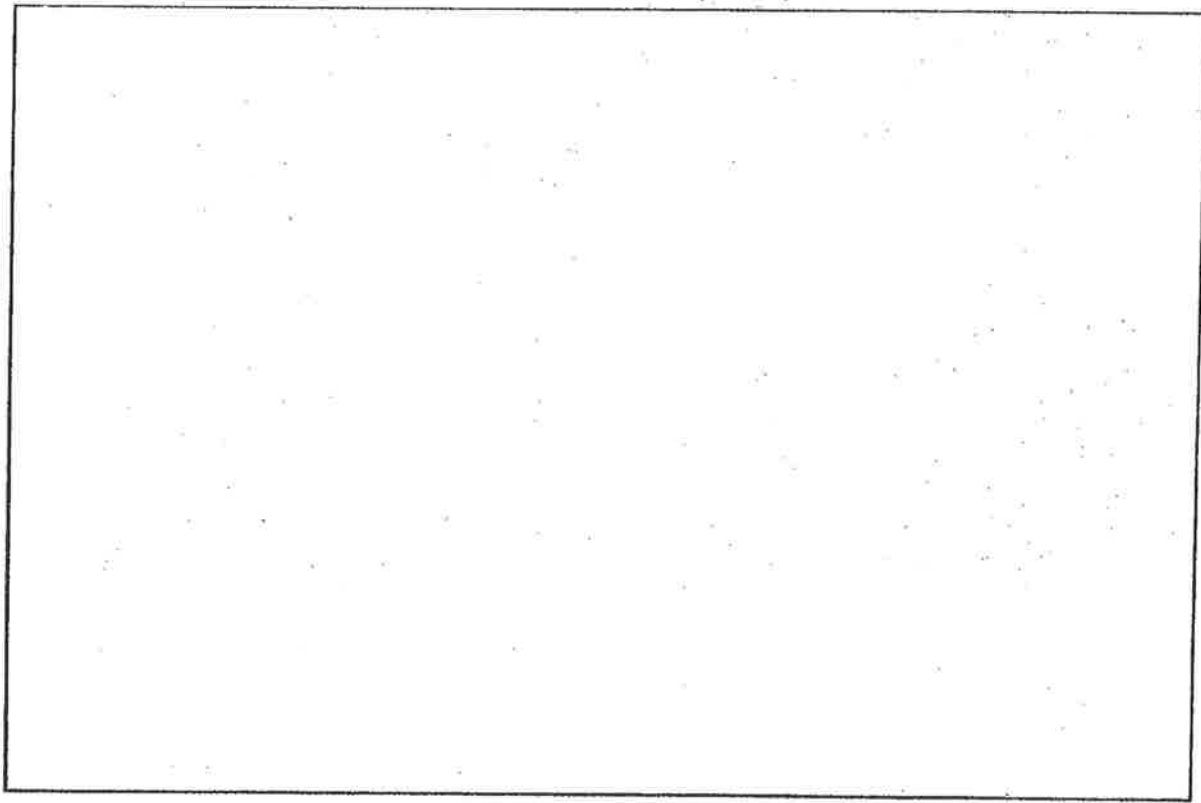
| DEPTH (INCHES) | TEXTURE | MUNSELL COLOR |
|-------------------|---------|------------------|
|-------------------|---------|------------------|

SOILS DATA

| DEPTH (INCHES) | TEXTURE | MUNSELL COLOR |
|-------------------|---------|------------------|
|-------------------|---------|------------------|

| SOIL BORING LOG #1 | | | SOIL BORING LOG #2 | | |
|---|-----------------|-------|--------------------|---------|-------|
| DEPTH | TEXTURE | COLOR | DEPTH | TEXTURE | COLOR |
| 0-4" | TS SIL | | | | |
| 4"-13" | SILTY CLAY COAR | | | | |
| | 10 7/8 5/2 | | | | |
| | MOTTLES @ 18" | | | | |
| Soils From County Inspector done in 2006 | | | | | |

IDENTIFY LOCATIONS OF: (BORINGS, NEIGHBORING STRUCTURES, WELLS, DRAINFIELDS, DRAINAGE PATTERNS, OR OTHER FEATURES THAT MAY IMPACT THE SITE).



**INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM
AITKIN COUNTY, MINNESOTA**

Township Spencer Date of Inspection 9/13/06 Permit Number 34287
 Owner Gregg Johnson Parcel Number _____
 Project Address Thrift Court lot 1 In Dec 373966 Installer Tom Oweil
 City _____ Zip Code (Thru) New Repair _____

SETBACKS:

Buildings to tank(s) 20
 Buildings to drainfield 60
 Well(s) 50' or 100' 50'
 Lake/Creek/Wetland 150'

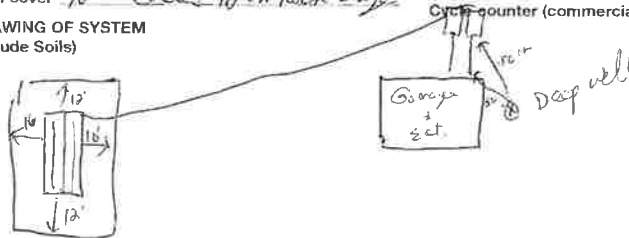
SEPTIC TANKS:

Liquid capacity 1860 Combo
 Manufacturer & type Jac pre-cast
 Type of baffle Plus Tie
 Inspection pipes 1-4" 1-6"
 Manholes access 2
 No. & height of risers 5'

MOUNDS:

Percent slope 2%
 Upslope dike width 12'
 Downslope dike width 16'
 Sideslope dike width 16'
 Drainfield rock below pipe 9"
 Depth of sand below rock 24"
 Perforation size & spacing 1/4" - 3
 Pipe size & spacing 1 1/2" - 3/4" intervals
 Dimensions of rock bed 10 x 50
 Dimensions of sand base 42 x 74
 Final cover 16" in center 12" on Rock Edge

**DRAWING OF SYSTEM
(Include Soils)**



DIST. or DROP BOX & TYPE

TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth _____
 Trench length _____
 Trench bottom width _____
 Trench bottom level _____
 Trench spacing _____
 Drainfield rock below pipe _____
 Size of gravelless pipe _____
 Depth of backfill _____
 Absorption area: square feet _____
 lineal feet _____

PUMPS:

Tank capacity 1500
 Tank manufacturer & type Jac pre-cast
 No. & height of risers 5'
 Pump manufacturer & model # Gould WSP 41
 Horsepower & GPM 1/2 - 50
 Feet of head 26
 Cycles per day 5
 Gallons per cycle 100
 Size of discharge line 3"
 Type of electrical hookup push
 Type & location of alarm Electronic
 Cycle counter (commercial) _____

Inspector's Comments _____

Corrective Action Required _____

Inspector's Signature [Signature] Installer's Signature _____

Sissabagama Lake

