Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the history of the system with the owner, Sara Lieffring. I contacted Washington County and was advised that there are no records for this system. This older system (installed in 1988) consists of a pre-cast septic tank and a rock trench drainfield installed in sandy fill similar to a mound.

Predicated on my inspection of the system and my review of the history of the system with the owner, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

Brian Humpal



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):2/22/2016 | | | |
| _ · | mpliant – Notice of Noncompliance grade Requirements on page 3) | | |
| Reason(s) for noncompliance (check all applicable) | | | |
| ☐ Impact on Public Health (Compliance Component #1) – Imminent threat the ☐ Other Compliance Conditions (Compliance Component #3) – Imminent the ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwa ☐ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwa ☐ Soil Separation (Compliance Component #4) – Failing to protect groundwa ☐ Operating permit/monitoring plan requirements (Compliance Component | reat to public health and safety ter otect groundwater vater | | |
| | | | |
| Property Information Parcel ID# or Sec/Twp/Ran | ue. | | |
| · | or inspection: Property Sale | | |
| · · · · · · · · · · · · · · · · · · · | phone: 651-323-3967 | | |
| or | | | |
| • | ntative phone: | | |
| Local regulatory authority: Washington County Regulator Regulator Pre-cast septic tank and a drainfield installed in sandy fill | Regulatory authority phone: 651-430-4052 | | |
| Comments or recommendations: | similar to a mound (gravity mound) | | |
| | | | |
| Certification | | | |
| I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknow possible abuse of the system, inadequate maintenance, or future water usage. | | | |
| Inspector name: Brian Humpal Certificat | ion number: L5342 | | |
| | nse number: L2896 | | |
| Inspector signature: Brian Humpal Pho | one number: 651-492-7550 | | |
| Necessary or Locally Required Attachments | | | |
| | local ordinance | | |
| ☑ Other information (list): Report Summary, Property Information, Disclaimer, Lie | | | |

| 1. | lm | npact on Public Health – Cor | mpliance compone | nt #1 of 5 | | |
|----|---|--|----------------------|---|--|--|
| | Co | ompliance criteria: | | Verification method(s): | | |
| | | stem discharge sewage to the bund surface. | ☐ Yes ☒ No | ☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home | | |
| | | stem discharge sewage to drain tile surface waters. | ☐ Yes ⊠ No | ☑ Excessive ponding in soil system/D-boxes ☑ Homeowner testimony (See Comments/Explanation) ☑ "Black soil" above soil dispersal system | | |
| | | rstem cause sewage backup into relling or establishment. | ☐ Yes ⊠ No | System requires "emergency" pumping Performed dye test | | |
| | | ny "yes" answer above indicates n Imminent Threat to Public Heal | | Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation) | | |
| | No | omments/Explanation: one of the above found. boring over the drainfield indicated no | signs of ponding or | black/gray soils. | | |
| 2. | Tā | ank Integrity — Compliance con | nponent #2 of 5 | | | |
| | Co | ompliance criteria: | | Verification method(s): | | |
| | | estem consists of a seepage pit, | ☐ Yes ⊠ No | □ Probed tank(s) bottom □ Probed tank(s) bott | | |
| | | sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be | | Examined construction recordsExamined Tank Integrity Form (Attach) | | |
| | | mpliant if allowed in local ordinance. | | Observed liquid level below operating depth | | |
| | | ewage tank(s) leak below their signed operating depth. | ☐ Yes ⊠ No | ☐ Examined empty (pumped) tanks(s) | | |
| | | es, which sewage tank(s) leaks: | | Probed outside tank(s) for "black soil" | | |
| | Any "yes" answer above indicates the system is Failing to Protect Groundwater. | | | ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) | | |
| 3. | Lo | omments/Explanation: wered underwater camera into tank - I ther Compliance Conditions | | | | |
| | a. | Maintenance hole covers are damage | d, cracked, unsecure | d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown | | |
| | b. | Other issues (electrical hazards, etc.) to i *System is an imminent threat to pu | | ersely impact public health or safety. Yes* No Unknown | | |
| | | Explain: | | | | |
| | c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater | | | ns as determined by inspector ☐ Yes* ☒ No | | |
| | | Explain: | | | | |
| | | | | | | |

Property address: 9990 223rd St N, Forest Lake, MN 55025

Inspector initials/Date: 2/22/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • 3 of 979Y 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

| 1. | Soil Separation - Compliance compor | nent #4 c | of 5 | | | |
|--|---|----------------|-----------|---|--|-------------------------------|
| | Date of installation: 1988 | Unkı | nown | ٧ | erification method(s): | |
| | Shoreland/Wellhead protection/Food Beverage Lodging? | ☐ Yes | ⊠ No | S | oil observation does not expire. P | |
| | Compliance criteria: | | | u | bservations by two independent p nless site conditions have been al | |
| | 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 | requirements differ. Conducted soil observation(s) (Attach borin Two previous verifications (Attach boring log | | ch boring logs) |
| | Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock. | | | | Unable to verify (See Comments. Other (See Comments/Explanation | (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 | С | omments/Explanation: | |
| | Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.* | | | _ | | |
| | "Experimental", "Other", or "Performance" | ☐ Yes | □No | <u>lr</u> | ndicate depths of elevations | |
| | systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) | | | | | See Attached Boring Log(s) |
| | Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock. | | | | | |
| | | | | D. | Required compliance separation* | |
| Any "no" answer above indicates the system is Failing to Protect Groundwater. *May be reduced up to 15 percent if allowed by Local Ordinance. | | | | | f allowed by Local | |
| 5. | Operating Permit and Nitrogen B | MP* – 0 | Compliand | e com | ponent #5 of 5 🛮 🖂 Not app | licable |
| | Is the system operated under an Operating Permit? | | | | | |
| | Is the system required to employ a Nitrogen BMP? | | | | | |
| | | | | | | |
| | If the answer to both questions is "no", | this sec | tion doe | s not ı | need to be completed. | |
| | Compliance criteria | | | | | |
| | a. Operating Permit number: Have the Operating Permit requirements been met? | | | | ☐ Yes ☐ No | |
| | | | | | | |
| b. Is the required nitrogen BMP in place and properly functioning? | | | | ☐ Yes ☐ No | | |
| | Any "no" answer indicates Noncom | pliance | | | | |

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.

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Property address: 9990 223rd St N, Forest Lake, MN 55025

Inspector initials/Date: 2/22/2016

Inspect Minnesota & Midwest Soil Testing

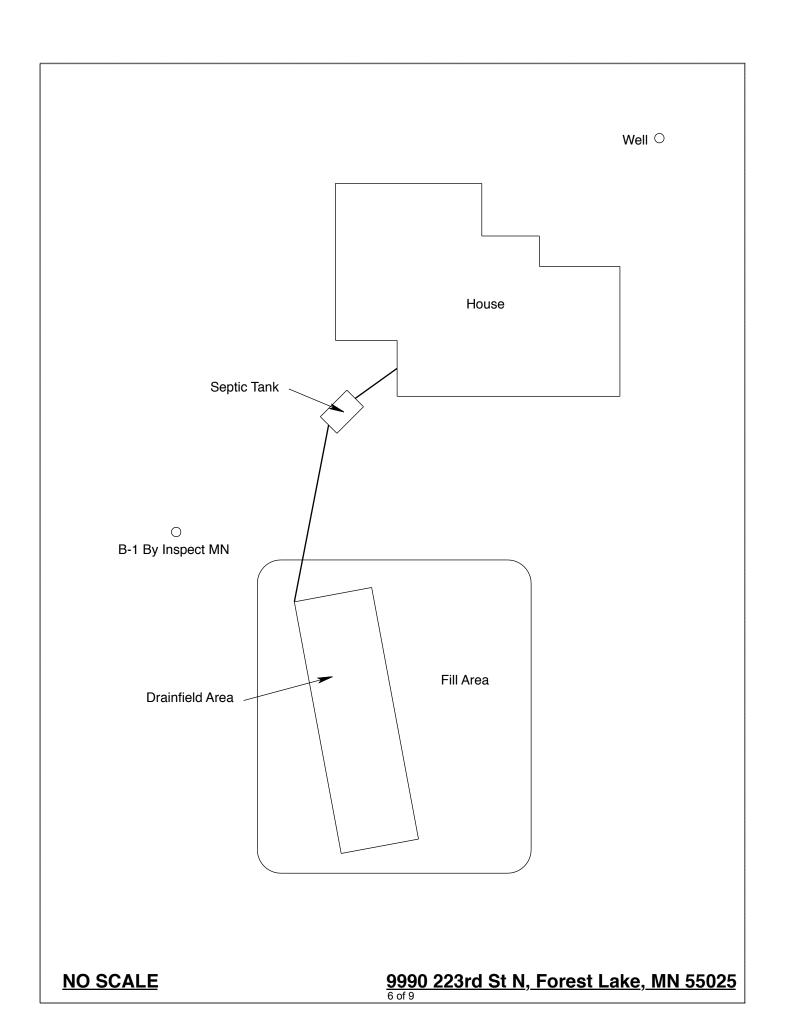
Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPCA Compliance Inspection.

| Property Address: 9990 223rd St N, Forest Lake, MN Zip: 55025 Property Owner: Sara Lieffring Phone: 651-323-3967 Tank(s) Tank(s) T | Date of Inspection: February 22, 2016 | Time: 9:30 AM | | | |
|--|---|------------------------------------|--|--|--|
| Tank(s) Tank(s)Material Rock trench Alternative system Rock trench Alternative system Rock trench Alternative system Race trench Respective Material Rock trench Respective Material Resp | Property Address: 9990 223rd St N, Forest Lake, N | MN Zip: 55025 | | | |
| Septic 1 | Property Owner: Sara Lieffring | Phone: 651-323-3967 | | | |
| performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system. Year house built: 1988 Year septic installed: 1988 Tank size (gals.): 1500 How long has seller owned the property? 2000 Number of residents in home? 1-4 Number of bedrooms? 4 Are all floors drained by gravity? Lower Pumped Garbage disposal? N Whirlpool bath? N More than one system (laundry, etc.)? N Does this property have any footing drain tiles connected to the septic system? N Are any buildings on this property such as garages or out-buildings connected to this system? N Are there any additional systems on this property serving other buildings? N Location of septic system on lot? North Side Is the well a deep well? Y Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? N If yes, explain: When was the system last pumped? 2013 Name of pumper: Olson's Sewer Service How often pumped in previous years? Every 3 Is system on a monitoring plan? N Have you received notices from any government agency concerning this system? N Is your property located in a shoreland management area? N | Septic 1 □Fiberglass □Rock □Aerobic □Plastic □Grav □Lift □Metal □Chan □Holding □Concrete □Seep □Other: □Block □Moun □Other □At-gr | Alternative system elless trench | | | |
| the ground surface to facilitate access and proper maintenance of the system. Year house built: 1988 Year septic installed: 1988 Tank size (gals.): 1500 How long has seller owned the property? 2000 Number of residents in home? 1-4 Number of bedrooms? 4 Are all floors drained by gravity? Lower Pumped Garbage disposal? N Whirlpool bath? N More than one system (laundry, etc.)? N Does this property have any footing drain tiles connected to the septic system? N Are any buildings on this property such as garages or out-buildings connected to this system? N Are there any additional systems on this property serving other buildings? N Location of septic system on lot? North Side Is the well a deep well? Y Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? N If yes, explain: When was the system last pumped? 2013 Name of pumper: Olson's Sewer Service How often pumped in previous years? Every 3 Is system on a monitoring plan? N Have you received notices from any government agency concerning this system? N Is your property located in a shoreland management area? N | | | | | |
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| Have you received notices from any government agency concerning this system? N Is your property located in a shoreland management area? N | | | | | |
| Is your property located in a shoreland management area? N | | | | | |
| | | | | | |
| Do you have any additional information that should be given to the new owner? N | | | | | |
| | | | | | |

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant: Sara Lieffring's Signature On File Date: 2/22/2016



Log Of Soil Borings

| Location of Project: 9990 223rd St N, Forest Lake, MN 55025 | | | | | |
|---|---------------------|--|--------------------|---------------------|-----------------------|
| Borings Made By: Inspect Minnesota | | | | Date: | 2/22/16 |
| | Auger Used: | Hand/Bucket | Class | ification System: | USDA |
| Boring Number: 1 | | | Boring Number: | | |
| Surface | | 97.50' | Surface | : | |
| Elevation of | of Benchmark | = 100.00' top of | Elevation | of | |
| Boring | se | ptic tank | Boring | | |
| Depth In | Soils Er | ncountered | Depth In | Soils Encountered | |
| Inches 0-7 | 10VD | | Inches | | |
| 7-24 | | 4/2 Loam | | | |
| 24-33 | | 3 Clay Loam | | | |
| 33-46 | | Clay Loam With | | | |
| | | & 7.5YR 5/8 ast Few Inches | | | |
| | SUII MUIST L | ast rew filties | | | |
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| | | | | | |
| 97.08' E | Elevation To Bottom | n Of Distribution Media | | Elevation To Bottom | Of Distribution Media |
| -94.75' Depth To Redox Or End Of Boring | | | Depth To Redox | - | |
| =2.33'/28" Of Separation | | | Of Separation | | |
| 5 LOSD : AL | | | End Of Daving At 1 | | |
| End Of Boring At: 46" | | End Of Boring At: | | | |
| Redox Present At: 33"/94.75' | | Redox Present At: Standing Water Present At: | | | |
| Standing Water Present At: None | | Standing | water Present At: | | |

Bottom Of Distribution Medium At: 29" Or Elevation 97.08' At Soil Probe

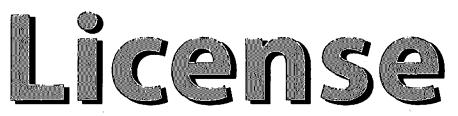
DISCLAIMER

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
- 8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

Subsurface Sewage Treatment Systems

Non-transferable



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

| Designated Certified Individual (DCI) | Certification Type | Certification Expires |
|--|--------------------------------|--------------------------|
| Brian L. Humpal | Maintainer (Certified) | 10/15/2017 |
| Brian L. Humpal | Advanced Designer (Certified) | 10/15/2017 |
| Brian L. Humpal | Advanced Inspector (Certified) | 10/15/2017 |
| Brian L. Humpal | Installer (Certified) | 10/15/2017 |
| Brian L. Humpal | Service Provider (Certified) | 10/15/2017 |
| Christopher R. Uebe | Designer (Certified) | 03/04/2018 |
| Christopher R. Uebe | Inspector (Certified) | 03/04/2018 |
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