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

Date: January 21, 2016 **Time:** 12:45 PM **Owner:** Patty Furlong
Inspection Address: 8224 Kimbro Ave S, Cottage Grove **Site Conditions:** 6" Snow 5" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks and a chamber trench drainfield. This house is presently vacant.

It should be noted that is unknown where the basement floor drains discharge. I cannot guarantee if these drains discharge into an old system or any system, and these drains may not be usable.

Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system presently meets 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

Brian Humpal

NOTE: This report is not complete without the inclusion/attachment of the additional pages which consist of up to three (3) MPCA drafted Compliance Inspection Documents, one (1) Homeowner/Occupant Information Sheet (when obtainable), one (1) site diagram, one (1) log of soil boring(s), one (1) Brian L Humpal, Inc. Disclaimer Sheet, and one (1) MPCA License.

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): 1/21/2016

☒ **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: 8224 Kimbro Ave S, Cottage Grove, MN 55016
Reason for inspection: Property Sale
Property owner: Patty Furlong
Owner's phone: 651-210-4158
or
Owner's representative:
Representative phone:
Local regulatory authority: Washington County
Regulatory authority phone: 651-430-4052
Brief system description: Two pre-cast septic tanks and a chamber trench drainfield.

Comments or recommendations:

It should be noted that is unknown where the basement floor drains discharge. I cannot guarantee if these drains discharge into an old system or any system, and these drains may not be usable.

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: Brian Humpal
Certification number: L5342
Business name: Inspect Minnesota, Midwest Soil Testing
License number: L2896
Inspector signature: Brian Humpal
Phone number: 651-492-7550

Necessary or Locally Required Attachments

☒ Soil boring logs ☒ System/As-built drawing ☐ Forms per local ordinance
☒ Other information (list): Report Summary, Property Information, Disclaimer, License

Property address: 8224 Kimbro Ave S, Cottage Grove, MN 55016 Inspector initials/Date: 1/21/2016 BH

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:	
System discharge sewage to the ground surface.	☐ Yes ☒ No
System discharge sewage to drain tile or surface waters.	☐ Yes ☒ No
System cause sewage backup into dwelling or establishment.	☐ Yes ☒ 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:

None of the above found.

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. *Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.*	☐ Yes ☒ No
Sewage tank(s) leak below their designed operating depth.	☐ Yes ☒ No
If yes, which sewage tank(s) leaks:	
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:

Lowered underwater camera into tanks - baffles and tank walls OK.

House vacant - tanks at operating level.

It should be noted that is unknown where the basement floor drains discharge. I cannot guarantee if these drains discharge into an old system or any system, and these drains may not be usable.

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:

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: 8224 Kimbro Ave S, Cottage Grove, MN 55016 Inspector initials/Date: 1/21/2016BH

4. Soil Separation – Compliance component #4 of 5

Date of installation: 2006 ☐ Unknown

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.	☐ Yes ☐ 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.*	☒ Yes ☐ No
"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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ 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 (A*ttach boring logs)*
☐ Not applicable *(Holding tank(s), no drainfield)*
☐ Unable to verify *(See Comments/Explanation)*
☒ Other *(See Comments/Explanation)*

Comments/Explanation:

Reviewed design and permit records.

Indicate depths of elevations

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

*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: _____ 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 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.*

Inspect Minnesota & Midwest Soil Testing

Subsurface Sewage Treatment System Owner/Occupant Information

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

Date of Inspection: January 21, 2016	Time: 12:45 PM
Property Address: 8224 Kimbro Ave S, Cottage Grove, MN	Zip: 55016
Property Owner: Patty Furlong	Phone: 651-210-4158

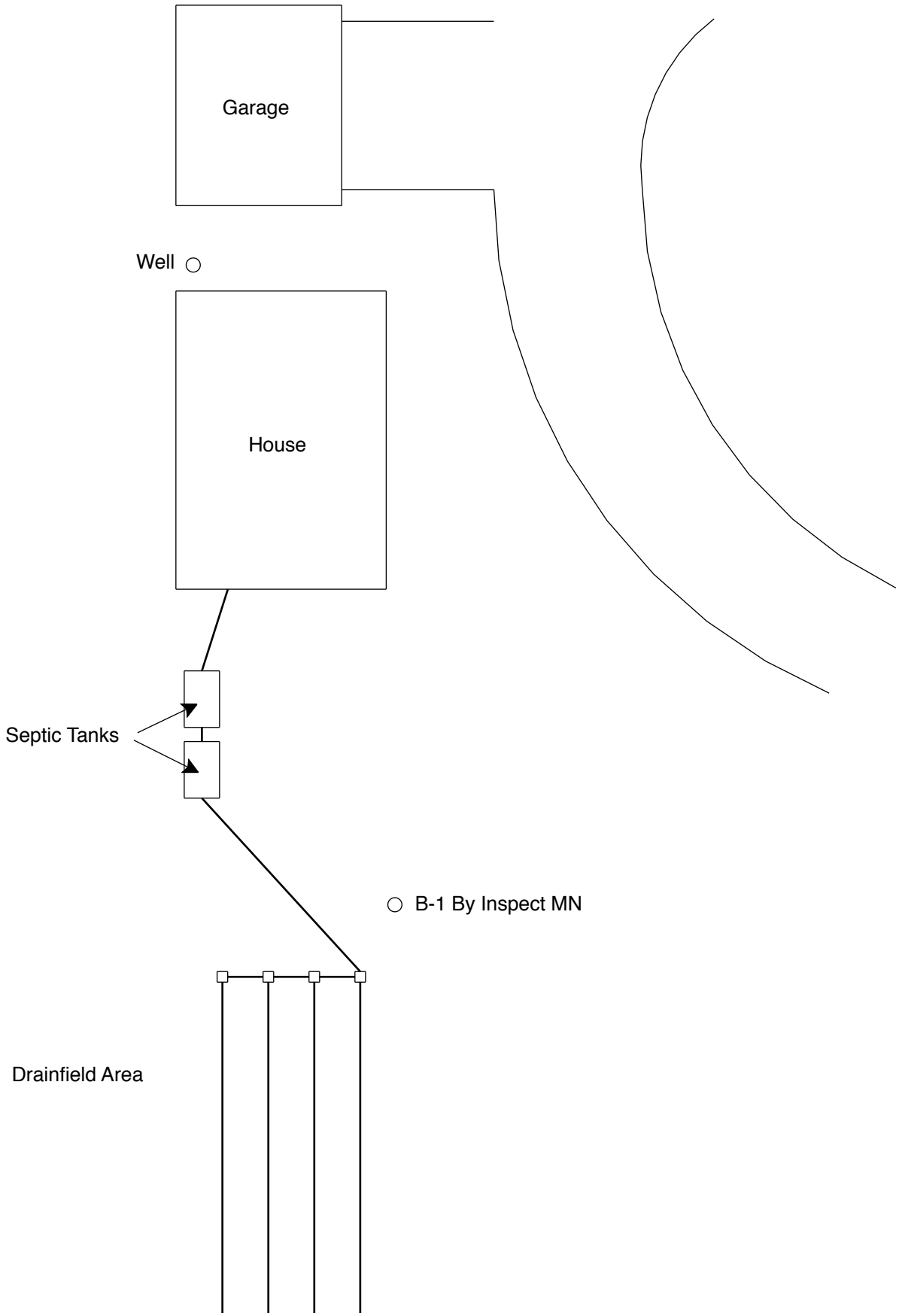
(Check appropriate sewer system component and indicate on site sketch on back of form).

Tank(s)	Tank(s)Material	Soil Treatment System	Other
☒ Septic 2	☐ Fiberglass	☐ Rock trench	☐ Alternative system _____
☐ Aerobic	☐ Plastic	☐ Gravelless trench	☐ Experimental system _____
☐ Lift	☐ Metal	☒ Chamber trench	☐ Cesspool system _____
☐ Holding	☒ Concrete	☐ Seepage bed	☐ Other system _____
	☐ Block	☐ Mound	
	☐ Other _____	☐ At-grade	

Have any other compliance inspections been done on this system? N	When/who? N/A	
Year house built: 1915	Year septic installed: 2006	Tank size (gals.): 1-1500, 1-1000
How long has seller owned the property?	Number of residents in home?	
Number of bedrooms? 4	Are all floors drained by gravity? Y	
Garbage disposal? N	Whirlpool bath? N	
More than one system (laundry, etc.)? Yes, may be a system connected to floor drain.		
Does this property have any footing drain tiles connected to the septic system?		
Are any buildings on this property such as garages or out-buildings connected to this system?		
Are there any additional systems on this property serving other buildings?		
Location of septic system on lot? South Side		
Location of water well 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? If yes, explain:		
When was the system last pumped?	Name of pumper:	
How often pumped in previous years?	Is system on a monitoring plan?	
Have you received notices from any government agency concerning this system?		
Is your property located in a shoreland management area? N		
Do you have any additional information that should be given to the new owner?		

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 unit of government 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: Date:



NO SCALE

8224 Kimbro Ave S, Cottage Grove, MN 55016

Log Of Soil Borings

Location of Project:	8224 Kimbro Ave S, Cottage Grove, MN 55016		
Borings Made By:	Inspect Minnesota	Date:	1/21/16
Auger Used:	Hand/Bucket	Classification System:	USDA

Boring Number:	1	Boring Number:	
Surface Elevation of Boring	Same ground surface as last drainfield trench	Surface Elevation of Boring	

Depth In Inches	Soils Encountered	Depth In Inches	Soils Encountered
0-23	10YR 3/1 Silt Loam		
23-41	10YR 4/3 Silt Loam		
41-51	10YR 3/4 Medium Sand		
51-68	10YR 5/4 Medium Sand		
68-80	10YR 5/4 Medium To Medium Coarse Sand With Trace Of Gravel		
80"	Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox
Same	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
-37"	Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media
≥43"	Of Separation		Of Separation

End Of Boring At:	80"	End Of Boring At:	
Redox Present At:	None	Redox Present At:	
Standing Water Present At:	None	Standing Water Present At:	

Bottom Of Distribution Medium At: 37 Inches

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing **DISCLAIMER SHEET** Relative to Subsurface Sewage Treatment System Compliance Inspections

1. This inspection/report is being performed for only the seller/owner of the property on which the septic system is located; there is no contract between Brian L. Humpal, Inc. and any other party except the seller/owner unless otherwise noted. In such case that the buyer of the property is paying for the inspection, the contract is between only the buyer of the property and Brian L. Humpal, Inc.; there is no contract with any other party unless otherwise noted.
2. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the system 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 a septic system, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the system, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the system will function properly for any particular party for any period of time.
3. Minimum Compliance Inspection requirements relative to this inspection and this report include only verification that the septic system 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 basement ejector pumps or exterior lift tank pumps and associated components as these are considered to be maintenance items. 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. Some persons may attempt to hide or conceal signs of previous back-ups.
4. Certification of this system does not warranty future use beyond the date of the inspection. Any system, 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. The average life expectancy of a system that has been properly designed, 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. Some parts of the system such as alarms, switches, pumps, and filters will most likely have to be 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 system is protective of public health and safety and is protective to groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the system 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 system 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 system due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original system design, the quality of the construction practices used while installing the system, or the quality of the materials used in constructing the system.
6. Brian L. Humpal, Inc. cannot guarantee the performance of subsurface sewage treatment system products 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: Client (person paying for inspection) understands that inspections conducted during winter weather (approximately November 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. System 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, client 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

License # L2896

Date of Issuance:	May 12, 2015
Maintainer License Expires:	Dec 22, 2015
Installer License Expires:	Dec 22, 2015
Adv Inspector License Expires:	Dec 22, 2015
Adv Designer License Expires:	Dec 22, 2015

Inspect Minnesota

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Steven Giddings, Manager
Environmental Business Assistance Section