Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: December 11, 2017 **Time:** 10:30 AM **Owner:** Tom Trooien

Inspection Address: 12020 Square Lake Trail Ct N, May Twp, MN 55082 Site Conditions: 3" Snow 0" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Tom Trooien, and have reviewed the original design/permit records, along with a previous compliance inspection from 2017, which were on file at Washington County. This older system (installed in 1993) consists of two pre-cast septic tanks and a rock trench drainfield.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the records, 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:
within 15 days	
System Status	
System status on date (mm/dd/yyyy):12/11/2017	
·	npliant – Notice of Noncompliance rade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent the Tank Integrity (Compliance Component #2) – Failing to protect groundwall Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwall Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwall Compliance Component #3)	reat to public health and safety ter otect groundwater
 ☐ Soil Separation (Compliance Component #4) – Failing to protect groundw ☐ Operating permit/monitoring plan requirements (Compliance Component 	
_	
Operating permit/monitoring plan requirements (Compliance Component	#5) – Noncompliant
□ Operating permit/monitoring plan requirements (Compliance Component Property Information Parcel ID# or Sec/Twp/Ran	#5) – Noncompliant
□ Operating permit/monitoring plan requirements (Compliance Component Property Information Parcel ID# or Sec/Twp/Ran Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082 Reason	#5) – Noncompliant ge:
□ Operating permit/monitoring plan requirements (Compliance Component Property Information Parcel ID# or Sec/Twp/Ran Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082 Reason of Property owner: Tom Trooien Owner's or	ge:
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Property Information Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082 Property owner: Tom Trooien Owner's representative: Represe Local regulatory authority: Washigton County Property Information Parcel ID# or Sec/Twp/Ran Parcel ID# or Sec/Twp/Ran Owner Sec/Twp/Ran Parcel ID# or Sec/Twp/Ran Owner Sec/Twp/Ran Reason Sec/Twp/Ran Owner's Reason Sec/Twp/Ran Reson Sec/Twp/Ran Owner's Regulatory Regulatory	ge:
□ Operating permit/monitoring plan requirements (Compliance Component Property Information Parcel ID# or Sec/Twp/Ran Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082 Reason of Property owner: Tom Trooien Owner's Owner's representative: Represe	#5) – Noncompliant ge: or inspection: Property Transfer phone: 612-594-4496 ntative phone:
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Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082

Inspector initials/Date: 12/11/2017

1.	Impact on Public Health – Compliance component #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) 			
		rstem cause sewage backup into religion velling or establishment.	☐ Yes	⊠ No	 "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test 			
		ny "yes" answer above indicates I Imminent Threat to Public Heal	•	☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
		omments/Explanation: one of the above found.						
2.	Ta	ank Integrity – Compliance com	nponent #	#2 of 5				
	Co	ompliance criteria:			Verification method(s):			
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No	☑ Probed tank(s) bottom☑ Examined construction records			
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			Examined Tank Integrity Form (Attach)Observed liquid level below operating depth			
	Sewage tank(s) leak below their ☐ Yes ☒ No designed operating depth.		☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil"					
	If yes, which sewage tank(s) leaks:				☐ Unable to verify (See Comments/Explanation)			
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.				☑ Other methods not listed (See Comments/Explanation)			
3.	Comments/Explanation: Lowered underwater camera into tanks - baffles and tank walls OK. Other Compliance Conditions — Compliance component #3 of 5							
	a.	•		-	opear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b.	•	mmediatel	ly and adversely	mpact 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 Explain:							

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Property address: 12020 Square Lake Trail Ct N, May Twp, MN 55082

Inspector initials/Date: 12/11/2017

	Data of in stallation. 4000				100 11 12 12 12 13		
	Date of installation: 1993 Shoreland/Wellhead protection/Food Beverage		nown		rification method(s):		
	Lodging?	☐ Yes ⊠ No		Soil observation does not expire. Previous soil observations by two independent parties are sufficier			
_	Compliance criteria:		unl	ess 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 boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield)			
_	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				Unable to verify (See Comments/Explanation)		
	Non-performance systems built April 1,	☐ Yes	☐ No	Co	mments/Explanation:		
	1996, or later or for non-performance systems located in Shoreland or Wellhead			Re	viewed previous compliance insp	pection from 2017.	
	Protection Areas or serving a food, beverage, or lodging establishment:			Re	viewed permit and design record	mit and design records.	
	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	☐ Yes	□ No	Inc	licate depths of elevations		
	or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			_A.	Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically			-	Periodically saturated soil/bedrock System separation		
	saturated soil or bedrock.			D	Required compliance separation*		
- 5.	Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B			*Ma	ay be reduced up to 15 percent indicate.	·	
-	s the system operated under an Operating Pen		-		onent #5 of 5 ⊠ Not app If "yes", A below is required	псаые	
ŀ	s the system required to employ a Nitrogen BM	IP?	☐ Yes [⊠ No	If "yes", B below is required		
	BMP=Best Management Practice(s) specifi	ed in the	system des	ign			
I	f the answer to both questions is "no",	this sec	tion does	not ne	eed to be completed.		
(Compliance criteria						
_	a. Operating Permit number:						
_	Have the Operating Permit requirements to	een met	?		☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and	nronerly	functioning	2	☐ Yes ☐ No		

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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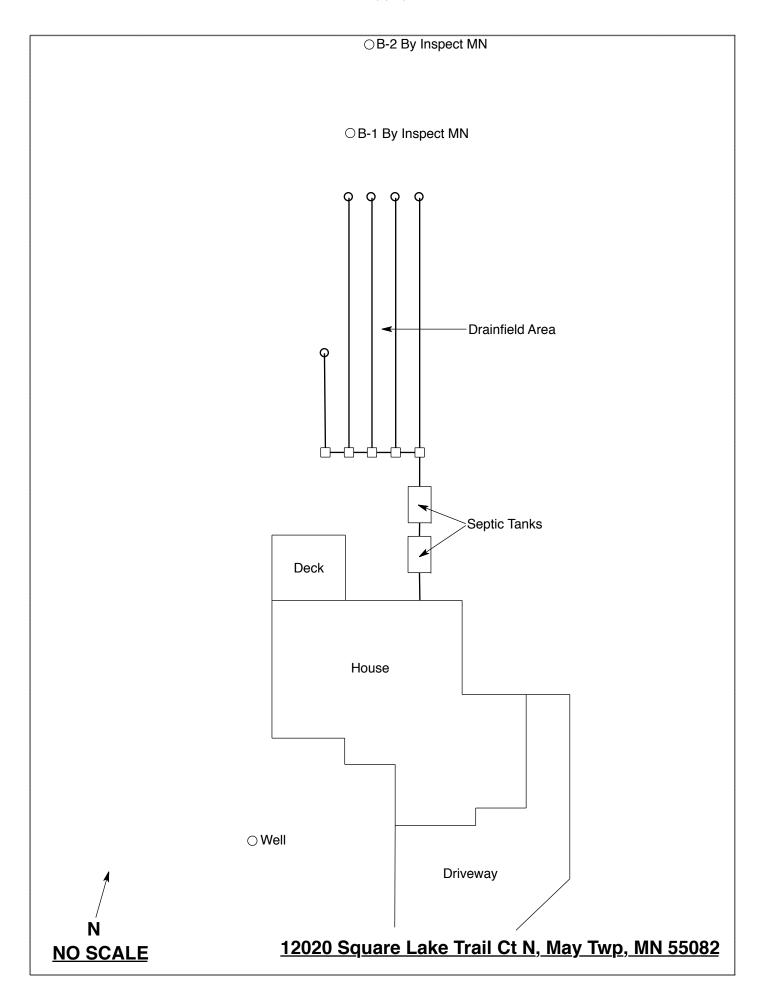
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: December 11, 2017	Time: 10:30 AM						
Property Address: 12020 Square Lake Trail Ct N, May Twp, MN	Zip: 55082						
Property Owner: Tom Trooien	Phone: 612-594-4496						
Tank(s) Tank(s)Material Soil Treatment System Septic 2 Fiberglass ⊠Rock trench Aerobic Plastic Gravelless trench Lift Metal Chamber trench Holding ⊠Concrete Seepage bed Other: Block Mound Other At-grade	Other Alternative system Experimental system Cesspool system Other system						
Are the tank maintenance covers accessible? Yes No *If no, proper maintenance must be 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.							
1	Tank size (gals.): 2-1000						
	sidents in home? 2						
Number of bedrooms? 4 Are all floors drained by gr							
Garbage disposal? Y Whirlpool bath?	N						
More than one system (laundry, etc.)? N							
Does this property have any footing drain tiles connected to the se	ptic 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							
Location of water well on lot? South 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? 10/13/2017 Name of pum	per: Pinky'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							
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: Tom Trooien's Signature On File Date: 12/11/2017



Log Of Soil Borings

Loc	ation of Project:	12020 Square Lake T	Frail Ct N, May Twp, MN 55082			
Borings Made By: Inspect Minnesota			•	Date:		
Auger Used: Hand/Bucket			Class	ification System:	USDA	
Boring Number: 1			Boring Number:	2		
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation of Boring Same ground surface a drainfield trench				
Depth In Inches	Soils E	ncountered	Depth In Inches			
0-13 13-47 47-60	epth In Soils Encountered 0-13 10YR 4/2 Silt Loam 13-47 10YR 3/4 Silt Loam				/4 Silt Loam Silt Loam With	
47" Depth To End Of Boring Or Redox		49" Depth To End Of Boring Or Redox		Boring Or Redox		
Same Elevation Of Boring Relative To System		Same Elevation Of Boring Relative To System		g Relative To System		
-23" Depth To Bottom Of Distribution Media =24" Of Separation		-23" Depth To Bottom Of Distribution Media =26" Of Separation		Of Distribution Media		
	End Of Boring At: 60"			End Of Boring At:	53"	
	Redox Present At:	47"		Redox Present At:		
Standing Water Present At: None			Standing	Water Present At:		

Bottom Of Distribution Medium At: 23 Inches	

Inspector initials/Date: TT | 11/22/2017

Property address: 12020 Square Lake Trail Ct N Stillwater, MN 55082

4 Sail Company Committee of		. #4 -EF			(mm/dd/yyyy)	
4. Soil Separation — Compliance condition: 9/23/1993	mponen Unkno		Verifi	cation method(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local			
Compliance criteria:				ements differ.		
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	⊠ Yes	□ No		nducted soil observation(s) (A	-	
Protection Area or not serving a food,				Two previous verifications (Attach boring logs)		
beverage or lodging establishment:			☐ Not applicable (Holding tank(s), no drainfield)			
Drainfield has at least a two-foot vertical			Unable to verify (See Comments/Explanation)			
separation distance from periodically saturated soil or bedrock.			☐ Oth	ner (See Comments/Explanation)		
Non-performance systems built April 1, 1996, or later or for non-performance	☐ Yes ☐ No		Comments/Explanation:			
systems located in Shoreland or Wellhead			B-1			
Protection Areas or serving a food, beverage, or lodging establishment:			0-21 topsoil10 YR 3/2			
• •			21-38	silt loam10 YR 4/3		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			21-60	sandy clay loam	10 YR 6/4	
"Experimental", "Other", or "Performance"	☐ Yes	 □ No	Indicate depths or elevations			
systems built under pre-2008 Rules; Type IV		•		om of distribution media	24"	
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)	•			iodically saturated soil/bedrock	60"	
Drainfield meets the designed vertical				tem separation	36"	
separation distance from periodically saturated soil or bedrock.				uired 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. Ordinance. *D. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5						
Is the system operated under an Operating	Permit?	☐ Yes	⊠ No	If "yes", A below is requir	ed	
Is the system required to employ a Nitroger		☐ Yes	⊠ No			
BMP = Best Management Practice(s) s	specified in	the system d	lesign			
If the answer to both questions is "no", this section does not need to be completed.						
Compliance criteria						
a. Operating Permit number: n/a						
Have the Operating Permit requireme	nts been n	net?		Yes No		
b. Is the required nitrogen BMP in place and properly functioning			j ?	☐ Yes ☐ No		
Any "no" answer indicates Nonc	omplian	ce.				
Upgrade Requirements (Minn. Stat. § 115.55	An immine	nt threat to pub	lic health	and safety (ITPHS) must be upg	raded, 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, 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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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

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2017

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852

Christopher R Uebe

3/4/2018

Designer, Inspector



St. Paul, Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section