Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Inspection Address: 13695 Tomahawk Dr S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the Owner, Lynn Solem, and have reviewed the original design/permit records on file at Washington County. This very old system consists of two cesspools and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B) because of the cesspools. This system is not an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A). Washington County issued sewage treatment permit #2822 for the installation of this septic system.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

Brian Humpal



Soil boring logs

Other information (list):

St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

For local tracking purposes: 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 System Status System status on date (mm/dd/yyyy): 5/4/2016 Compliant – Certificate of Compliance Noncompliant - Notice of Noncompliance (Valid for 3 years from report date, unless shorter time (See Upgrade Requirements on page 3) frame outlined in Local Ordinance.) 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: 13695 Tomahawk Dr S, Afton, MN 55001 Reason for inspection: Property Sale Owner's phone: 612-709-2344 Property owner: Lynn & Patricia Solem or Owner's representative: Representative phone: Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052 Brief system description: Two cesspools and a rock trench 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: Brian Humpal Certification number: L5342 Business name: Inspect Minnesota, Midwest Soil Testing License number: L2896 Inspector signature: Phone number: 651-492-7550 **Necessary or Locally Required Attachments**

Report Summary, Property Information, Disclaimer, License

System/As-built drawing

1.	Impact	on Public Health – Co	mpliance componer	nt #1 of 5			
	Compliance criteria:			Verification method(s):			
	System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters.		☐ Yes ☐ No	 ☑ Searched for surface outlet ☑ Searched for seeping in yard/backup in home ☑ Excessive ponding in soil system/D-boxes ☑ Homeowner testimony (See Comments/Explanation) 			
		use sewage backup into r establishment.	☐ Yes ⊠ No	 □ "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) 			
		s" answer above indicate nent Threat to Public Hea					
		s/Explanation: e above found.					
2.	Tank In	tegrity – Compliance cor	mponent #2 of 5				
	Complia	nce criteria:		Verification method(s):			
		nsists of a seepage pit, drywell, or leaching pit.	⊠ Yes □ No	☑ Probed tank(s) bottom☑ Examined construction records			
		ts meeting 7080.2550 may be allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth			
		nk(s) leak below their operating depth.	☐ Yes ☐ No	Examined empty (pumped) tanks(s)			
	If yes, which	ch sewage tank(s) leaks:	All Tanks	☐ Probed outside tank(s) for "black soil"☐ Unable to verify (See Comments/Explanation)			
		s" answer above indic is Failing to Protect Gr		☐ Official to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
3.	Lowered u	s/Explanation: Inderwater camera into tanks Sompliance Condition					
	a. Maintei	nance hole covers are damage	ed, 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 ☐ Un *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						
	Explair	n:					

Property address: 13695 Tomahawk Dr S, Afton, MN 55001

Inspector initials/Date: 5/4/2016

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4.	Soil Separation — Compliance compor	nent #4 c	of 5			
	Date of installation: 1968/1982	Unkr	nown	Verification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes		Soil observation does not expire. Previous soil		
	Compliance criteria:			observations by two independent parties are sufficient, unless site conditions have been altered or local		
	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) ☐ 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	Comments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
	"Experimental", "Other", or "Performance"	☐ Yes	□No	Indicate 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)			A. Bottom of distribution media See Attached Boring Log(s)		
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			B. Periodically saturated soil/bedrock C. System separation		
	saturated soil of 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.					
5.	Operating Permit and Nitrogen B	MP* – C	Compliand	ce component #5 of 5 Not applicable		
	Is the system operated under an Operating Permit?					
	Is the system required to employ a Nitrogen BMP?					
	BMP=Best Management Practice(s) specified in the system design					
	If the answer to both questions is "no",	this sec	tion doe	es not need to be completed.		
	Compliance criteria					
	a. Operating Permit number:			D.V. D.N.		
	Have the Operating Permit requirements been met?		☐ Yes ☐ No			
	b. Is the required nitrogen BMP in place and	properly	functioning	ng?		
	Any "no" answer indicates Noncom	pliance	-			

Property address: 13695 Tomahawk Dr S, Afton, MN 55001

Inspector initials/Date: 5/4/2016

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, 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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800-657-3864

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651-296-6300 •

FEE: \$ 25:22

WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 2822

Inspection of Installation Must Be Made By the Building Official Before Any Portion of System Is Covered Contact Planning Department, 439-3220 x-176, 24 HOUR NOTICE REQUIRED

Property Description Property Address Use of Building: Flow Rate: Gal. Liquid Capacity Lift Station (if needed) Gal. Liquid Capacity Lineal Feet Width Depth of Rock Below Lines Depth of Trench From Existing Grade — Minimum Inches Maximum Length of Individual Line is 100 Feet.) Minimum Spacing of Lines Fl. Center to Center Special Conditions Fl. Center to Center Special Conditions Fl. Center to Center Special Conditions Fl. Center to Center Special Condition that the person to whom it is granted, and his agents, employees and workmen shall convorm in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time in all respects to ordinance, and permit shall be void if work is not commenced with six (6) months. Proproved: Date The Property Description Propoved: Date The Proposition Approved Date The Proposition A		NOTICE REQUIRED
Use of Building: Flow Rate: January Percolation Rate: Make of Building: Type of System: January Percolation Rate: Make of Building: January Percolation Rate: Make of Building: January Percolation Rate: Midth Depth of Rock Below Lines January Inches Recommended Number of Lines (Note: Maximum Length of Individual Line is 100 Feet.) Minimum Spacing of Lines Fl. Center to Center Special Conditions Fl. Center to Center Special Conditions January Permission is hereby granted to the above named applicant to perform the work described in the appropriate of the minimum specifications shown above and per attached site plan. This permit is granted uponous in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time in the minimum specifications shown above and permit shall be void if work is not commenced with six (6) months. Minnesota Department Specifications Speci	Owner 2 (14/11) 5:15 M	
Septic Tank Gal. Liquid Capacity Lift Station (if needed) Gal. Liquid Capacity Liq		
Septic Tank Gal. Liquid Capacity Lift Station (if needed). Gal. Lift Station (if needed). Gal. Liquid Capacity Lift Station (if needed). Gal. Capacity Lift Station (if needed). Gal. Liquid Capacity Lift Station (if needed). Liquid Capacity L	Property Address 136.95 Tana	Hank to 11.
Type of System: Absorption Trench — Square Feet — Lineal Feet — Width — Depth of Rock Below Lines — Inches, Above Lines — Inches, Maximum Length of Individual Line is 100 Feet.) Minimum Spacing of Lines — Ft. Center to Center Special Conditions — Ft. Center to Center Special Conditions — Type — Inches, Maximum Length of Individual Line is 100 Feet.) ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the appropress condition that the person to whom it is granted, and his agents, employees and workmen shall control in all respects to ordinances of Washington County, Minnesota, This permit may be revoked at any time (INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY). Portion of the property of the person of the pers	Flow Rate	
Absorption Trench — Square Feet		
Depth of Rock Below Lines		
Depth of Trench From Existing Grade — Minimum — Inches, Maximum —	Absorption Trench — Square Feet	Lineal Foot 27/KJ
Recommended Number of Lines	Depth of Rock Below Lines Inches	Above the Company Width
Minimum Spacing of Lines FI. Center to Center Special Conditions FI. Center to Center FI. Center to Center Special Conditions FI. Center to Center FI. Center to Center FI. Center to Center Special Conditions FI. Center to Center FI. Center to Cente	- From Existing Grade - Minimum	フィ
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon rm in all raspects to ordinances of Washington County, Minnesota. This permit may be revoked at any time non violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. Proved: Date Dat	Recommended Number of Lines	Inches, Maximum 477 Inches
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the appress condition to the minimum specifications shown above and per attached site plan. This permit is granted upon press condition that the person to whom it is granted, and his agents, employees and workmen shall conton violation of any said ordinances of Washington County, Minnesota. This permit may be revoked at any time in violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. Proved: Date	Minimum Spacing of Lines	Note: Maximum Length of Individual Line Is 100 Feet.,
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the appropriation to the minimum specifications shown above and per attached site plan. This permit is granted upon rm in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time on violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. NSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Proved: Date Dat	Special Conditions	,
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the appropriation to the minimum specifications shown above and per attached site plan. This permit is granted upon rm in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time on violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. NSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Proved: Date Dat	Tank L. L.	The Unerica Carol
irm in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Peroved: Date Date Date Amments Date Date		All traffico fer on the
rm in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months. INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Proved: Date		
Maliation Approved Newfillille	orm in all respects to ordinances of Washington County con violation of any said ordinance, and permit shall be INSTALLER MUST HOLD CURRENT SEPTIC INSTA	and his agents, employees and workmen shall con- ty, Minnesota. This permit may be revoked at any time e void if work is not commenced with six (6) months
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tallation Approved Kerk Williams 10 1-71-87		

White-Copy-Applicant

Canary-Copy-File

Inspect Minnesota & Midwest Soil Testing

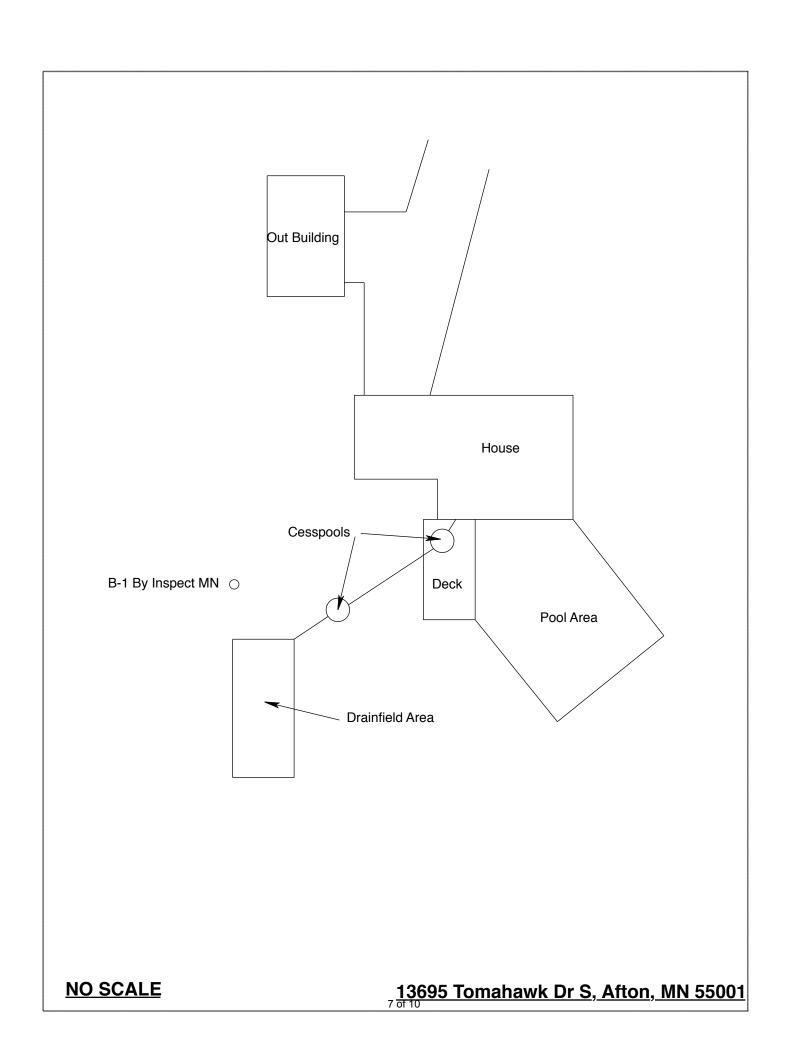
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 4, 2016	Time: 1:30 PM				
Property Address: 13695 Tomahawk Dr S, Afton, MI	N Zip: 55001				
Property Owner: Lynn & Patricia Solem	Phone: 612-709-2344				
	nch				
the ground surface to facilitate access and proper main					
	968/1982 Tank size (gals.):				
	umber of residents in home? 2-6				
	rained by gravity? Y				
<u> </u>	rlpool 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 servi	ing other buildings? N				
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? Y If yes, explain:≈2006, replaced pipe between tanks.					
When was the system last pumped? 2015 Name of pumper: Meyer's Sewer Service					
How often pumped in previous years? Every 2					
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: Lynn Solem's Signature On File Date: 5/4/2016



Log Of Soil Borings

Location of Project: 13695 Tomahawk Dr S, Afton, MN 55001					
Borings Made By: Inspect Minnesota			Date: 5/4/16		5/4/16
Auger Used: Hand/Bucket			Classification System: USDA		USDA
	Boring Number:	1		Boring Number:	
Surface	Same arou	ınd surface as last	Surface		
Elevation	MEI -	nfield trench	Elevation	of	
Boring	uran	meid trench	Boring		
Depth In	Soils E	ncountered	Depth In	Soils Er	ncountered
Inches 0-17		2 Loamy Sand	Inches		
17-29 29-70	10YR 3/4	Medium Sand Medium Sand Medium Sand			
	2011(0)	ricaram cana			
70"	Depth To End Of B	oring Or Redox		Depth To End Of B	orina Or Redox
Same	•	g Relative To System		•	Relative To System
-34" Depth To Bottom Of Distribution Media				Of Distribution Media	
≥36" Of Separation			Of Separation	/ Distribution Media	
			·		
End Of Boring At: 70"			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: 34 Incl	nes

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.

Sulbsurface Sewage Treatment Systems

Non-transferable



License # L2896

Date of Issuance:

Oct 28, 2015 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016

Adv Designer License Expires:

Adv Inspector License Expires: Maintainer License Expires: Installer License Expires:

Certification

Inspect Minnesota, Midwest Soil Testing

10/15/2017 Expires

10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

Designated Certified

Individual (DCI) Brian L. Humpal Brian L. Humpal

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Inspector (Certified) Designer (Certified)

Christopher R. Uebe Christopher R. Uebe

03/04/2018

03/04/2018

Steven Giddings Manager Environmental Business Assistance Section



Minnesota Pollution Control Agency

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

Brian L. Humpal Brian L. Humpal

Brian L. Humpal