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: May 13, 2016 **Time:** 10:15 PM **Owner:** Tom Reiter

Inspection Address: 15115 42nd St S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Tom Reiter, and have reviewed the original design/permit records on file at the City of Afton. This older system (installed in 1991) 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 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



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	boo Type. Compilated and Emoreoment
Instructions: Inspection results based on Minnesota Pollution Control Agency (Mirequirements and attached forms – additional local requirements may also apply.	PCA) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system own within 15 days	ner
System Status	
System status on date (mm/dd/yyyy):5/13/2016	
	ncompliant – Notice of Noncompliance e Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent the Other Compliance Conditions (Compliance Component #3) – Immine Tank Integrity (Compliance Component #2) – Failing to protect groud Other Compliance Conditions (Compliance Component #3) – Failing Soil Separation (Compliance Component #4) – Failing to protect groud Operating permit/monitoring plan requirements (Compliance Component	ent threat to public health and safety indwater to protect groundwater bundwater
Property Information Parcel ID# or Sec/Twg	o/Range:
• •	ason for inspection: VBWD
Property owner: Tom Reiter Ow	ner's phone: 651-436-1793
or	
	oresentative phone:C51 420 4052
· · · · · · · · · · · · · · · · · · ·	gulatory authority phone: 651-430-4052
Brief system description: Two pre-cast septic tanks and a rock trench drainfiel Comments or recommendations:	iu.
Comments of recommendations.	
Certification	
I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to un possible abuse of the system, inadequate maintenance, or future water usage.	·
Inspector name: Brian Humpal Cer	rtification 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	
	ns per local ordinance
☐ Other information (list): Report Summary, Property Information, Disclaim	er, license

1.	Impact on Public Health – Compliance component #1 of 5					
	Sy gro Sy or Sy dw An	estem discharge sewage to the bund surface. In stem discharge sewage to drain tile surface waters. In stem cause sewage backup into religing or establishment. In y "yes" answer above indicates of Imminent Threat to Public Heal of the above found.		⊠ No ⊠ No		rification method(s): Searched for surface outlet Searched for seeping in yard/backup in home Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)
2.	Ta	ank Integrity — Compliance con	nponent	#2 of 5		
3.	Syce Secon Sede de If y	restem consists of a seepage pit, sspool, drywell, or leaching pit. repage pits meeting 7080.2550 may be impliant if allowed in local ordinance. rewage tank(s) leak below their signed operating depth. res, which sewage tank(s) leaks: remy "yes" answer above indicates and its Failing to Protect Green is Failing to Protect Green is remarked underwater camera into tanks and their compliance.	baffles a	No No nter. nd tank walls	⊠ □ □ □ ⊠	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)
	a. b.	Maintenance hole covers are damaged Other issues (electrical hazards, etc.) to i *System is an imminent threat to put Explain: System is non-protective of ground wa *System is failing to protect ground Explain:	mmediate I blic heal ter for oth	ly and advers th and safety	sely impact	public health or safety. ☐ Yes* ☑ No ☐ Unknown

Property address: 15115 42nd St S, Afton, MN 55001

Inspector initials/Date: 5/13/2016

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1.	Soil Separation – Compliance compor	nent #4 of	f 5			
	Date of installation: 1991 Shoreland/Wellhead protection/Food Beverage	Unkno			erification method(s):	
	Lodging?	☐ Yes ⊠ No			Soil observation does not expire. Previous soil observations by two independent parties are sufficien	
	Compliance criteria:				nless 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 log) 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/ 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		omments/Explanation: eviewed design and permit record	S.
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			_		
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	<u>In</u>	dicate 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)			<u>A.</u>	Bottom of distribution media	See Attached Boring Log(s)
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			-	Periodically saturated soil/bedrock System separation	
				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* – Co	omplianc	e com	ponent #5 of 5 🔀 Not app	licable
	Is the system operated under an Operating Per	mit?	☐ 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 sect	tion does	s not n	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 for	unctioning	?	☐ Yes ☐ No	
	Any "no" answer indicates Noncom	pliance.				

Property address: 15115 42nd St S, Afton, MN 55001

Inspector initials/Date: 5/13/2016

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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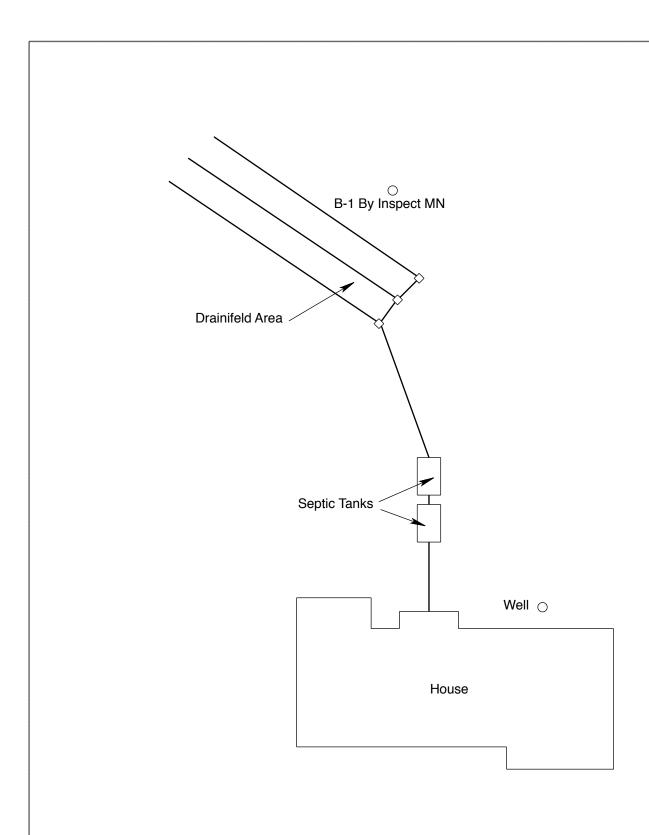
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 13, 2016	Time: 10:15 AM				
Property Address: 15115 42nd St S, Afton, MN Zip: 55001					
Property Owner: Tom Reiter	Phone: 651-436-1793				
<u>Tank(s)</u> <u>Tank(s)Material</u> <u>Soil Treatme</u>	nt System Other				
Septic 2 Fiberglass Rock tren					
Aerobic □Plastic □Gravelles: □Lift □Metal □Chamber					
Holding Concrete Seepage b					
Other: Block Mound					
Other At-grade					
Are the tank maintenance covers accessible? \boxtimes Yes					
performed through the maintenance holes. Maintenance					
the ground surface to facilitate access and proper mainte	enance of the system.				
Year house built: 1991 Year septic installed: 199	71 Tank size (gals.): 2-1000				
How long has seller owned the property? 1991 Nu	mber of residents in home? 2-5				
Number of bedrooms? 4 Are all floors dr	ained by gravity? Lower Pumped				
C 1	pool bath? Y				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected	ed to the septic system? N				
Are any buildings on this property such as garages or or	it-buildings connected to this system? N				
Are there any additional systems on this property serving	g other buildings? N				
Location of septic system on lot? North 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? N If yes, explain:					
	me of pumper: Pinky's Sewer Service				
How often pumped in previous years? Every 1-2					
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: Tom Reiter's Signature On File Date: 5/13/2016



Log Of Soil Borings

Location of Project: 15115 42nd St S, Afton, MN 55001					
Borings Made By: Inspect Minnesota		Date:		5/13/16	
Auger Used: Hand/Bucket		Classification System:		USDA	
	Boring Number:	1		Boring Number:	
Surface Elevation Boring	of Same grou	ind surface as last nfield trench	Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered
0-14 14-28 28-50 50-84	10YR 2/2 Silt Loam 14-28 10YR 4/3 Clay Loam 28-50 10YR 4/3 Fine To Medium Sand				
84"	Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox
Same	Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System
-45" Depth To Bottom Of Distribution Media				f Distribution Media	
≥39" Of Separation			Of Separation		
	End Of Boring At:	84"		End Of Boring At:	
	Redox Present At:	None	Redox Present At:		
Standing Water Present At: None		Standing Water Present At:			

Bottom Of Distribution	n Medium At: 45 Inches

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

Maintainer License Expires:

Adv Inspector License Expires:

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

Adv Designer License Expires:

Date of Issuance:

Installer License Expires:

Certification

Inspect Minnesota, Midwest Soil Testing

Expires

10/15/2017 10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

Designated Certified

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

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Designer (Certified) Inspector (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