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

Inspection Address: 5650 Odell Ave S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, and have reviewed the history of the system with the owner, Jim Rickard. This older system (installed in 1987) consists of a pre-cast septic tank and a rock trench drainfield.

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

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

Please contact me should you have any questions.

Brian Humpal Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

requirements and attached	esults based on Minnesota Pollution Control Agenc forms – additional local requirements may also ap	ply.			
Submit completed form t within 15 days	o Local Unit of Government (LUG) and systen	n owner			
System Status					
System status on d	ate (mm/dd/yyyy):11/10/2016				
(Valid for 3 years	Certificate of Compliance s from report date, unless shorter time Local Ordinance.)	Noncompliant – Notice of Noncomplian (See Upgrade Requirements on page 3)			
☐ Impact on Pub☐ Other Complia☐ Tank Integrity☐ Other Complia☐ Soil Separatio	ncompliance (check all applicable) Slic Health (Compliance Component #1) – Immineration (Compliance Component #3) – In (Compliance Component #2) – Failing to protect ance Conditions (Compliance Component #3) – Failing to protect (Compliance Component #4) – Failing to protect (Component #4)	nminent threat to public health and safety groundwater ailing to protect groundwater ct groundwater			
	<u> </u>				
Property Information	on Parcel ID# or Sec	c/Twn/Range			
• •	Odell Ave S, Afton, MN 55001	Reason for inspection: Owner's Request			
Property owner: Jim Ric		Owner's phone: 651-269-1352			
or	Total G				
Owner's representative:		Representative phone:			
Local regulatory authority:	Washington County	Regulatory authority phone: 651-430-4052			
Brief system description:	A pre-cast septic tank and a rock trench drainfie	eld.			
Comments or recommenda	ations:				
Certification					
determination of future sys	necessary information has been gathered to dete tem performance has been nor can be made due em, inadequate maintenance, or future water usa	to unknown conditions during system construction,			
Inspector name: Brian H	lumpal	Certification number: L5342			
	Minnesota, Midwest Soil Testing	License number: L2896			
Inspector signature:	Brian Humpal	Phone number:651-492-7550			
Necessary or Local	ly Required Attachments				
_	•				
Soil boring logs	´ <u>-</u>	Forms per local ordinance			

1.	ln	npact on Public Health – Cor	mpliance compone	nt #1 of 5				
	C	ompliance criteria:		Verification method(s):				
		stem discharge sewage to the ound surface.	☐ Yes ☒ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home				
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠ No	 ☑ Excessive ponding in soil system/D-boxes ☑ Homeowner testimony (See Comments/Explanation) ☐ "Black soil" above soil dispersal system 				
-		vstem cause sewage backup into velling or establishment.	☐ Yes ⊠ No	☐ System requires "emergency" pumping ☐ Performed dye test				
		ny "yes" answer above indicates n Imminent Threat to Public Heal	•	☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
		omments/Explanation:						
	NC	one of the above found.						
2.	Ta	ank Integrity – Compliance con	nponent #2 of 5					
	Co	ompliance criteria:		Verification method(s):				
		vstem consists of a seepage pit,	☐ Yes ⊠ No	□ Probed tank(s) bottom □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				
		esspool, drywell, or leaching pit.		Examined Construction records				
		mpliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth				
		ewage tank(s) leak below their	☐ Yes ⊠ No	Examined empty (pumped) tanks(s)				
		esigned operating depth. yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"				
		ny "yes" answer above indica	tes the	 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 				
		stem is Failing to Protect Gr						
	Co	omments/Explanation:						
	Lo	wered underwater camera into tanks -	baffles and tank wa	lls OK.				
_	•							
3.	U	ther Compliance Conditions	·					
	a.	_		d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown				
	b.	Other issues (electrical hazards, etc.) to i *System is an imminent threat to pu	-	ersely impact public health or safety. Yes* No Unknown ety				
		Explain:						
	C.	System is non-protective of ground wa *System is failing to protect ground		ns as determined by inspector Yes* No				
		Explain:						

Property address: _ 5650 Odell Ave S, Afton, MN 55001

Inspector initials/Date: 11/10/2016

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Date of installation: 1987	_ 🗌 Unkr	nown	Verification method(s):					
Shoreland/Wellhead protection/Food Beverage Lodging?	Tes No Soil observation		Soil observation does not expire. Previ					
Compliance criteria:			observations by two independent parties are sufficien unless site conditions have been altered or local					
For systems built prior to April 1, 1996, and	⊠ Yes	□No	requirements differ.					
not located in Shoreland or Wellhead			 ☑ Conducted soil observation(s) (Attach boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield) 					
Protection Area or not serving a food, beverage or lodging establishment:								
Drainfield has at least a two-foot vertical				Unable to verify (See Comments/Explanation)				
separation distance from periodically saturated soil or bedrock.			☐ Other (See Comments/Explanation)	• • • • • • • • • • • • • • • • • • • •				
Non-performance systems built April 1,	☐ Yes	□ No	Comments/Explanation:					
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.*								
"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.		_	See Att					
2350 or 7080.2400 (Advanced Inspector			A. Bottom of distribution media	Boring Log(s)				
License required)			B. Periodically saturated soil/bedrock					
Drainfield meets the designed vertical separation distance from periodically			C. System separation					
saturated soil or bedrock.								
Any "no" answer above indicates t	he svst	em is	D. Required compliance separation* *May be reduced up to 15 percent if all	owed by Local				
*May be reduced up to 15 percent if allowed by Local Ordinance.								
	MP* - C	Compliance	e component #5 of 5 Not applica	able				
Operating Permit and Nitrogen B								
Operating Permit and Nitrogen B Is the system operated under an Operating Per	mit?	☐ Yes [⊠ No If "yes", A below is required					
		☐ Yes [_					
Is the system operated under an Operating Per	/IP?	☐ Yes [⊠ No If "yes", B below is required					
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BM	MP? fied in the	☐ Yes [⊠ No If "yes", B below is required					
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specification	MP? fied in the	☐ Yes [⊠ No If "yes", B below is required					
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specif If the answer to both questions is "no",	MP? fied in the	☐ Yes [No If "yes", B below is required sign not need to be completed.					
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specif If the answer to both questions is "no", Compliance criteria	MP? fied in the this sec	☐ Yes [system des etion does	⊠ No If "yes", B below is required					

Inspector initials/Date: 11/10/2016

Property address: 5650 Odell Ave S, Afton, MN 55001

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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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

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Inspect Minnesota & Midwest Soil Testing

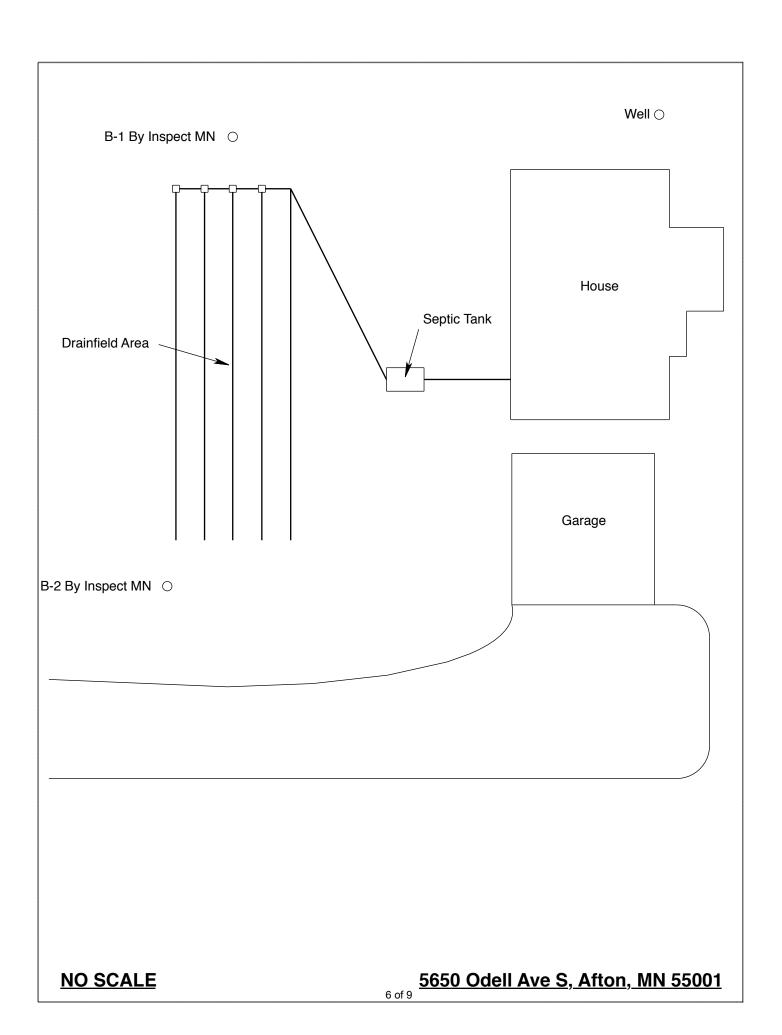
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: November 10, 2016	Time: 9:10 AM						
Property Address: 5650 Odell Ave S, Afton, MN Zip: 55001							
Property Owner: Jim Rickard	Phone: 651-269-1352						
1 3	eatment System Other						
	trench Alternative system						
	elless trench Experimental system						
	nber trench Cesspool system						
	age bed Other system						
Other: Block Mou							
Other At-grade							
Are the tank maintenance covers accessible? \boxtimes Ye							
performed through the maintenance holes. Mainten							
the ground surface to facilitate access and proper m	aintenance of the system.						
Year house built: 1987 Year septic installed	: 1987 Tank size (gals.): 1200						
How long has seller owned the property? 2004	Number of residents in home? 2						
	rs drained by gravity? Lower Pumped						
Garbage disposal? Y	/hirlpool bath? N						
More than one system (laundry, etc.)? N							
Does this property have any footing drain tiles com	nected to the septic system? N						
	- 1						
Are any buildings on this property such as garages	or out-buildings connected to this system? N						
	Ş						
Are there any additional systems on this property se	erving other buildings? N						
Location of septic system on lot? East Side							
Location of water well on lot? West 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? 2014	Name of pumper: Meyer's Sewer Service						
How often pumped in previous years? Every 3							
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: Jim Rickard's Signature On File Date: 11/10/2016



Log Of Soil Borings

Location of Project: 5650 Odell Ave S, Afton, MN 55001						
	Borings Made By: Inspect Minnesota			Date:		11/10/16
	Auger Used: Hand/Bucket		Class	sificati	ion System:	USDA
Boring Number: 1			Borir	ng Number:	2	
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation of Boring Same ground surface drainfield trench				
Depth In Soils Encountered Inches		Depth In Inches	Soils Encountered			
Depth In Inches 0-10 10YR 4/2 Silt Loam (Fill) With Bedrock Fragments 10-27 27-38 38-55 10YR 4/3 Silt Loam 10YR 4/4 Loam 10YR 5/4 Fine Sand (Moist) 71-78 10YR 5/4 Loam (Saturated) With 7.5YR 5/8 Redox		0-20 20-32 32-47 47-79	Solis Focolini Ared			
71" Depth To End Of Boring Or Redox		79"	Depth To End Of Boring Or Redox			
Same Elevation Of Boring Relative To System		Same	Elevation Of Boring Relative To System			
-47" Depth To Bottom Of Distribution Media =24" Of Separation		-47" Depth To Bottom Of Distribution Media ≥32" Of Separation			f Distribution Media	
Er	nd Of Boring At:	78"		End (Of Boring At:	79"
	dox Present At:	71"			x Present At:	None
	ater Present At:	None	Standing		r Present At:	None

Bottom Of Distribution Medium At: 47 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