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 8, 2017 **Time:** 8:30 AM **Owner:** Michael Maas

Inspection Address: 12877 Homestead Dr N, Hugo, MN 55110

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the history of the system with the owner, Michael Maas. This very old system (installed in 1982) consists of a pre-cast septic tank, a pre-cast lift 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

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:							
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days								
System Status								
System status on date (mm/dd/yyyy):5/8/2017								
<u> </u>	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 thi ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwate ☐ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate ☐ Soil Separation (Compliance Component #4) – Failing to protect groundwate ☐ Operating permit/monitoring plan requirements (Compliance Component #4)	reat to public health and safety ter otect groundwater ater							
Property Information Parcel ID# or Sec/Twp/Range	ge:							
	or inspection: Property Transfer							
Property owner: Michael Maas Owner's or	phone: 651-592-3698							
	ntative phone:							
•	ry authority phone: 651-430-4052							
Brief system description: A pre-cast septic tank, a pre-cast lift tank, and a rock trend	ch drainfield.							
Comments or recommendations:								
Although not a compliance criteria, it should be noted that a portion of the drainfield maneighbor's lot.	ay be located off of the property on the							
Certification								
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.								
Inspector name: Brian Humpal Certificat	ion number: L5342							
	nse number: L2896							
Inspector signature: Brian Humpal Pho	one number: 651-492-7550							
Necessary or Locally Required Attachments								
· · · · · · _ <u>-</u>	local ordinance							
☐ Other information (list): Report Summary, Property Information, Disclaimer, Lic								

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Property address: _ 12877 Homestead Dr N, Hugo, MN 55110

Inspector initials/Date: 5/8/2017

1.	Impact on Public Health - Compliance component #1 of 5							
	Sy gro	estem discharge sewage to the bund surface. In the discharge sewage to drain tile surface waters.	☐ Yes	⊠ No ⊠ No	\boxtimes	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)		
		stem cause sewage backup into relling 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)			
2.	No A s	omments/Explanation: one of the above found. soil boring over the drainfield indicated ank Integrity – Compliance com			ck/gre	y soils.		
	Compliance criteria:				Verification method(s):			
	ce	stem consists of a seepage pit, sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be	☐ Yes	⊠ No		Probed tank(s) bottom Examined construction records Examined Tank Integrity Form (Attach)		
	Se	mpliant if allowed in local ordinance. wage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Observed liquid level below operating depth Examined empty (pumped) tanks(s) Probad outside tank(s) for "block soil"		
		ves, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil" 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.	Lo Lif	omments/Explanation: wered underwater camera into the tan t pump and alarm were operational at ther Compliance Conditions	the time o	of the inspection.		s of 5		
	a.	Maintenance hole covers are damaged	d, cracked	, unsecured, or ap	pear t	o structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown is an imminent threat to public health and safety							
	 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: 12877 Homestead Dr N, Hugo, MN 55110

Inspector initials/Date: 5/8/2017

Date of installation: 1982	☐ Unkr	nown	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	Soil observation does not expire. F			
Compliance criteria:		ι	unless site conditions have been a	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) Two previous verifications (Atta	ch boring logs)		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			☐ Unable to verify (See Comments☐ Other (See Comments/Explanatio	/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" systems built under pre-2008 Rules; Type IV	☐ Yes	□ No	Indicate 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 saturated soil or bedrock.			B. Periodically saturated soil/bedrock C. System separation			
			D. Required compliance separation*			
Any "no" answer above indicates to	*May be reduced up to 15 percent if allowed by Local					
Failing to Protect Groundwater.			Ordinance.			
Operating Permit and Nitrogen B	MP* _ (omnliance	e component #5 of 5 Not app	dicable		
				incable		
Is the system operated under an Operating Permit? Yes No If "yes", A below is required 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) specifi		-				
If the answer to both questions is "no",	this sec	tion does	not need to be completed.			
Compliance criteria						
a. Operating Permit number:						
Have the Operating Permit requirements I	been met	?	☐ Yes ☐ No			
	? ☐ 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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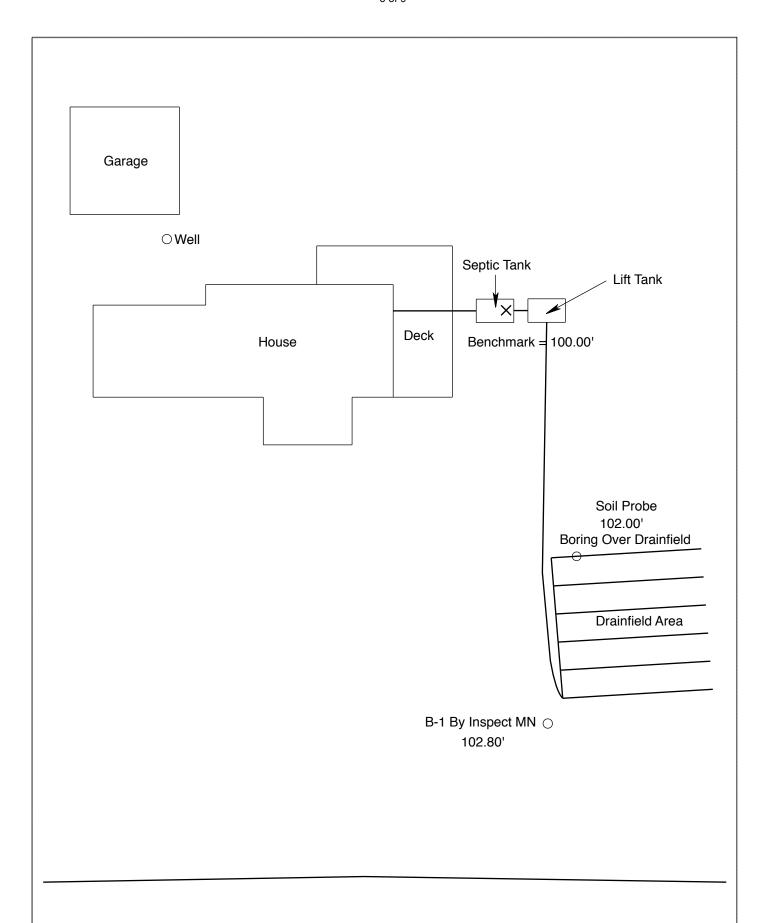
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 8, 2017	Time: 8:30 AM					
Property Address: 12877 Homestead Dr N, Hugo, MN	Zip: 55110					
Property Owner: Michael Mass	Phone: 651-592-3698					
Tank(s) Tank(s)Material Soil Treatment	Alternative system ench					
Are the tank maintenance covers accessible? \boxtimes Yes \square 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.						
Year house built: 1982 Year septic installed: 1982	Tank size (gals.): 1200					
	ber of residents in home? 3-5					
Number of bedrooms? 5 Are all floors drain						
	ool 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 serving other buildings? N						
Location of septic system on lot? Southwest Side						
Location of water well on lot? Northeast 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:≈2014 Replaced lift pump.						
When was the system last pumped? 2016 Name	e of pumper: Smilies 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? Y						
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: Michael Maas' Signature On File Date: 5/8/2017



12877 Homestead Dr N, Hugo, MN 55110

Log Of Soil Borings

Location of Project: 12877 Homestead Dr N, Hugo, MN 55110						
		Inspect Minnesota	Date:		5/8/17	
	Auger Used: Hand/Bucket		Class	sification System:	USDA	
Вс	Boring Number: 1			Boring Number:		
Surface			Surface			
Elevation of			Elevation	of		
Boring	Tank M	anhole Cover	Boring			
Depth In	Soils Fr	ncountered	Depth In Soils F		ncountered	
Inches			Inches	20110 21	Ticourrect ea	
0-6 6-16	•	Medium Sand Loamy Sand				
16-60		Medium Sand				
		m Sand With Gravel				
		ck Fragments				
75-98		m Sand With Gravel ck Fragments				
	~1070 KU	ck i raginents				
		n Of Distribution Media			Of Distribution Media	
-94.63' Depth To Redox Or End Of Boring		Depth To Redox Or End Of Boring				
=2.79'/33" Of Separation			Of Separation			
Fn	nd Of Boring At:	98"		End Of Boring At:		
Redox Present At: None			Redox Present At:			
	Standing Water Present At: None			Standing Water Present At:		
Startaning Trace. Frederic Net						

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