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: 12170 Upper Heather Ave N, Hugo, MN 55038

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a rock trench drainfield.

Although not a compliance criteria, it should be noted that the lift pump electrical is poorly configured and should be re-configured to reduce the potential for problems.

Predicated on my inspection of the system and my review of the original design/permit 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



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	77		
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):5/18/2016			
	apliant – 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 thre ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwate ☐ Other Compliance Conditions (Compliance Component #3) – Failing to pro ☐ Soil Separation (Compliance Component #4) – Failing to protect groundwate ☐ Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater ater		
Property Information Parcel ID# or Sec/Twp/Rang	e.		
	or inspection: Property Sale		
· · ·	phone: Unknown		
or			
	tative phone: 651-222-6683		
· · · · · · · · · · · · · · · · · · ·	Regulatory authority phone: 651-430-4052		
Brief system description:	ench drainfield.		
Although not a compliance criteria, it should be noted that the lift pump electrical is poor reduce the potential for problems.	rly configured and should be re-configured to		
Certification			
I hereby certify that all the necessary information has been gathered to determine the c determination of future system performance has been nor can be made due to unknow, possible abuse of the system, inadequate maintenance, or future water usage.			
Inspector name: Brian Humpal Certification	on number: <u>L5342</u>		
Business name: Inspect Minnesota, Midwest Soil Testing Licen	se number: L2896		
Inspector signature: Brian Humpal Pho	ne number: 651-492-7550		
Necessary or Locally Required Attachments	and ordinance		
☑ Soil boring logs☑ System/As-built drawing☑ Other information (list):Report Summary, Property Information, Disclaimer, Lice	ocal ordinance ense		

	Compliance criteria:		Verification method(s):			
	System discharge sewage to the ground surface.	☐ Yes ⊠ No	 Searched for surface outlet Searched for seeping in yard/backup in home 			
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	 ☑ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation) 			
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	 "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test 			
	Any "yes" answer above indicat an Imminent Threat to Public He		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation: None of the above found.					
2.	Tank Integrity — Compliance co	omponent #2 of 5				
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records			
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth			
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)			
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"			
	Any "yes" answer above indicated in System is Failing to Protect G		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) ☐ Other methods at expertised level.			
	Comments/Explanation: Lowered underwater camera into tanks	hafflos and tank walls				
			·			
	Lift pump and alarm were operational at the time of the inspection. Although not a compliance criteria, it should be noted that the lift pump electrical is poorly configured and should be reconfigured to reduce the potential for problems.					
3.	Other Compliance Condition	ns – Compliance comp	ponent #3 of 5			
	•		or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	_	immediately and adverse	ely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown			
	Explain:	out of the second				
	c. System is non-protective of ground v *System is failing to protect ground		as determined by inspector ☐ Yes* ☒ No			

Property address: 12170 Upper Heather Ave N, Hugo, MN 55038

Inspector initials/Date: 5/18/2016

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1.	Soil Separation – Compliance compor	nent #4 c	of 5			
	Date of installation: 1997 Shoreland/Wellhead protection/Food Beverage	Unkı			erification method(s):	
	Lodging?	⊠ Yes	☐ No	0	oil observation does not expire. Pr bservations by two independent pa	arties are sufficient,
	Compliance criteria:				nless site conditions have been ali equirements differ.	tered 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		 Conducted soil observation(s) (a Two previous verifications (Attac Not applicable (Holding tank(s), n 	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/Explanation	
	Non-performance systems built April 1,		☐ No	С	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:			R	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	- Ir	ndicate 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)				Bottom of distribution media	See Attached Boring Log(s)
	Drainfield meets the designed vertical			В.	Periodically saturated soil/bedrock	
	separation distance from periodically saturated soil or 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.					f allowed by Local	
5.	Operating Permit and Nitrogen B	MP* – 0	Compliand	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 BM	1P?	☐ 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 sec	tion doe	s not i	need to be completed.	
	Compliance criteria					
	a. Operating Permit number:					
	Have the Operating Permit requirements by	been met	?		☐ Yes ☐ No	
	b. Is the required nitrogen BMP in place and	properly	functioning	j ?	☐ Yes ☐ No	
	Any "no" answer indicates Noncom	pliance				

Inspector initials/Date: 5/18/2016

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, 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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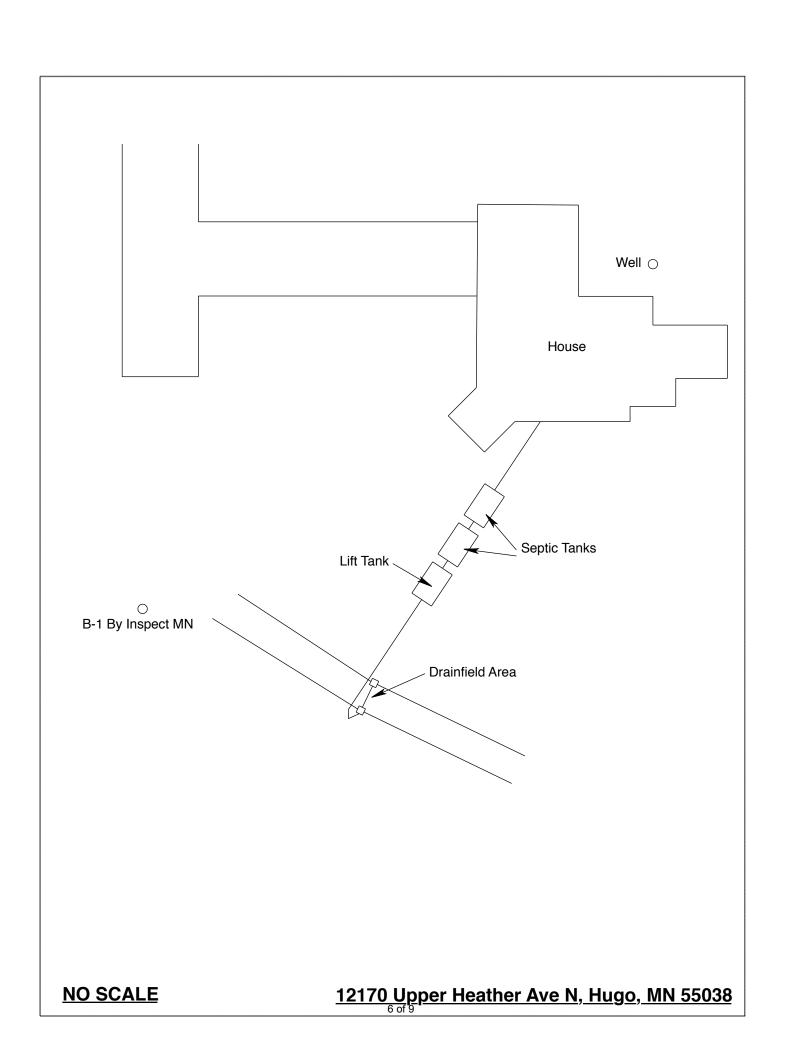
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Property address: 12170 Upper Heather Ave N, Hugo, MN 55038

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 18, 2016	Time: 1:45 PM			
Property Address: 12170 Upper Heather Ave N, Hugo, MN	Zip: 55038			
Property Owner: Real Estate Owned	Phone: Unknown			
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 i performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the	ers should be made accessible to			
Year house built: 1997 Year septic installed: 1997	Γank size (gals.): 2-1000			
	sidents in home?			
Number of bedrooms? 5 Are all floors drained by gr	cavity?			
Garbage disposal? Whirlpool bath?				
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected to the se	ptic system?			
Are any buildings on this property such as garages or out-building	s connected to this system?			
Are there any additional systems on this property serving other but	ildings?			
Location of septic system on lot? South Side				
Location of water well on lot? North Side	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? If yes, explain:				
When was the system last pumped? Name of pum	per:			
How often pumped in previous years?	on a monitoring plan?			
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the new owner?				
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: Real Estate Owned	Date:			



Log Of Soil Borings

Location of Project: 12170 Upper Heather Ave N, Hugo, MN 55038					
Borings Made By: Inspect Minnesota			Date:	5/18/16	
Auger Used: Hand/Bucket		Class	ification System:	USDA	
	Boring Number:	1		Boring Number:	
Surface	Camo arol	ınd surface as last	Surface		
Elevation	OT 1	nifeld trench	Elevation	of	
Boring			Boring		
Depth In	Soils E	ncountered	Depth In	Soils Er	ncountered
Inches 0-6	10VD	. 3/2 Loam	Inches		
6-19 19-50 50-65	10YR 4/3 7.5YR 4/4 S	3 Loamy Sand Sandy Clay Loam 4 Loamy Sand			
		sal At 65"			
65"	Depth To End Of B	oring Or Redox		Depth To End Of B	oring Or Redox
Same	Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System
-29" Depth To Bottom Of Distribution Media				of Distribution Media	
≥36"	Of Separation			Of Separation	
	End Of Boring At:	65"		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	:: 29 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