Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 12300 Heather Ave, Hugo, MN 55038

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with the previous compliance inspections from 2003 and 2008, which were on file at Washington County. This older system (installed in 1995) consists of two pre-cast septic tanks and a rock trench drainfield.

Predicated on my inspection of the system and my review of the 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.

Christopher Uebe

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):7/10/2018					
	mpliant – Notice of Noncompliance grade 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 this Tank Integrity (Compliance Component #2) – Failing to protect groundwa Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwa Soil Separation (Compliance Component #4) – Failing to protect groundwa Operating permit/monitoring plan requirements (Compliance Component)	reat to public health and safety ter otect groundwater vater				
Property Information Parcel ID# or Sec/Twp/Range	ge:				
	or inspection: Property Transfer				
Property owner: Jill Markoe Owner's	phone:				
or					
· · · · · · · · · · · · · · · · · · ·	ntative phone:				
Local regulatory authority: Washington County Regulato Brief system description: Two pre-cast septic tanks and a rock trench drainfield.	ry authority phone: <u>651-430-6655</u>				
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/Christopher Uebe Certificat	ion number: <u>C5342/C9852</u>				
Business name: Inspect Minnesota, Midwest Soil Testing Licer	nse number: L2896				
Inspector signature: Brian Humpal Hum III	one number: 651-492-7550				
Negoccom, or Legally Dogwined Attackments					
Necessary or Locally Required Attachments	la cal andinana				
☐ Soil boring logs☐ System/As-built drawing☐ Forms per☐ Other information (list):Report Summary, Property Information, Disclaimer, Lic	local ordinance				
— Onor information (list). Report Summary, Froperty information, Disclaimer, Lic	DUTIOU				

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 TTY 651-282-5332 or 800-657-3864 • Available in alternative formats Property address: 12300 Heather Ave, Hugo, MN 55038

Inspector initials/Date: __7/10/2018

1.	Impact on Public Health – Compliance component #1 of 5						
	C	ompliance criteria:			Verification method(s):		
		stem discharge sewage to the bund 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) ☐ "Plack soil" share soil dispossed system 		
		rstem cause sewage backup into reling or establishment.	☐ Yes	⊠ No	 □ "Black soil" above soil dispersal system □ System requires "emergency" pumping □ Performed dye test 		
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
		omments/Explanation: one of the above found.					
2.	Tá	ank Integrity — Compliance com	nponent #	#2 of 5			
	C	ompliance criteria:			Verification method(s):		
		rstem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No	☑ Probed tank(s) bottom☑ Examined construction records		
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	☐ Examined empty (pumped) tanks(s)		
		yes, which sewage tank(s) leaks:			Probed outside tank(s) for "black soil"		
		Any "yes" answer above indicates the system is Failing to Protect Groundwater.			 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 		
3.	Lo	omments/Explanation: wered underwater camera into tanks -			nt #3 of 5		
	a. Maintenance hole covers are damaged, 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.						
	Explain:						
	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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	1 01 0			
Property address: 12300 Heather Ave, Hugo, MN §	Inspector initials/Date:7/	10/2018 B# ()		
4. Soil Separation — Compliance compon	ent #4 of 5			
Date of installation: Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria: 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock. 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: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Unknown ☐ Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No	Verification method(s): Soil observation does not expire. Fobservations by two independent punless site conditions have been a requirements differ. Conducted soil observation(s) Two previous verifications (Attation of the comments of t	parties are sufficient, litered or local (Attach boring logs) ach boring logs) no drainfield) by/Explanation) n) pection from 2008. pection from 2003.	
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No	A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation	See Attached Boring Log(s)	
Any "no" answer above indicates the system is Failing to Protect Groundwater. Operating Permit and Nitrogen BMP* – Compliance		D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local Ordinance. component #5 of 5 Not applicable		
Is the system operated under an Operating Perm Is the system required to employ a Nitrogen BMI BMP=Best Management Practice(s) specific If the answer to both questions is "no", to Compliance criteria	nit? Yes P? Yes ced in the system design	No If "yes", A below is required No If "yes", B below is required		

Any "no" answer indicates Noncompliance.

Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?

a. Operating Permit number:

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.

☐ Yes ☐ No

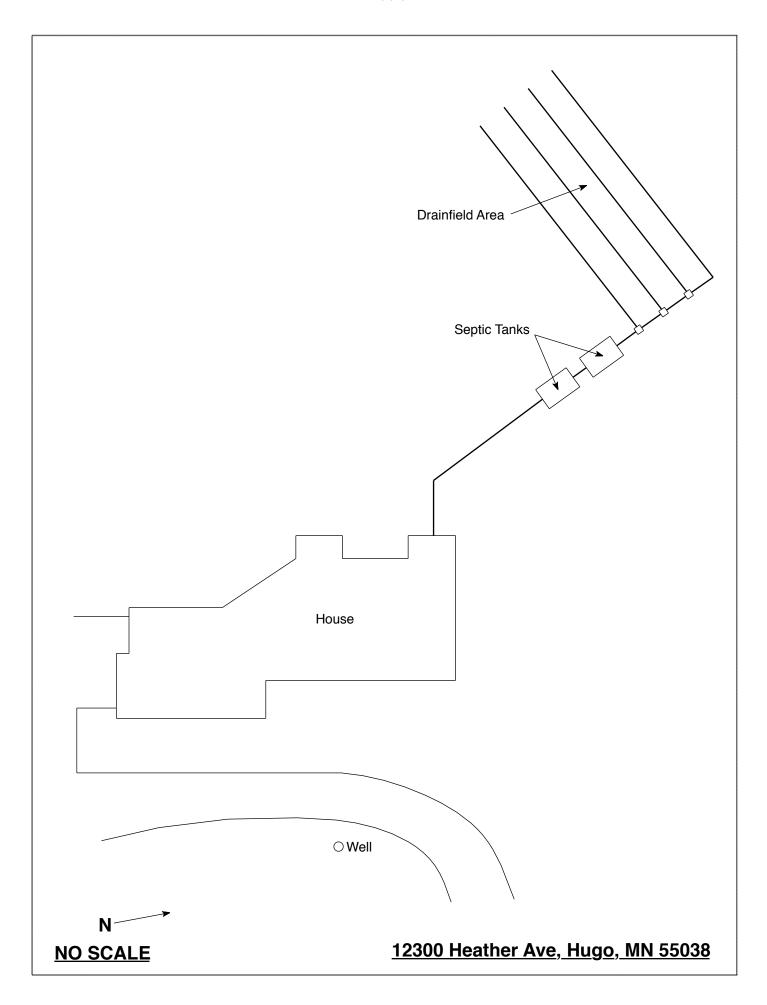
☐ Yes ☐ No

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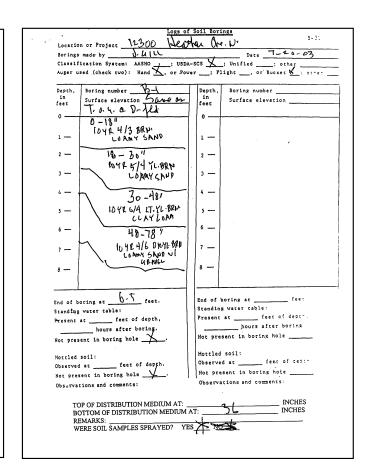
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

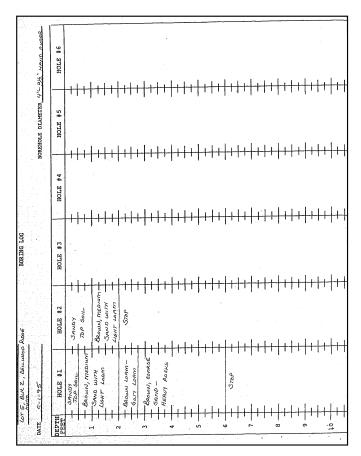
The first of the f				
Date of Inspection: July 10, 2018	Time: 8:45 AM			
Property Address: 12300 Heather Ave, Hugo, MN	Zip: 55038			
Property Owner: Jill Markoe	Phone:			
Tank(s) Tank(s)Material Soil Treatment System □ Septic 2 □ Fiberglass □ Rock trench □ Aerobic □ Plastic □ Gravelless trench □ Lift □ 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 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.				
	Γank size (gals.): 2-1000			
	sidents in home?			
Number of bedrooms? 4 Are all floors drained by gr				
Garbage disposal? Y Whirlpool bath?	Y			
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected to the septic system? Are any buildings on this property such as garages or out-buildings connected to this system?				
Are there any additional systems on this property serving other buildings?				
Location of septic system 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:				
	per: Unknown			
How often pumped in previous years? Unknown				
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				

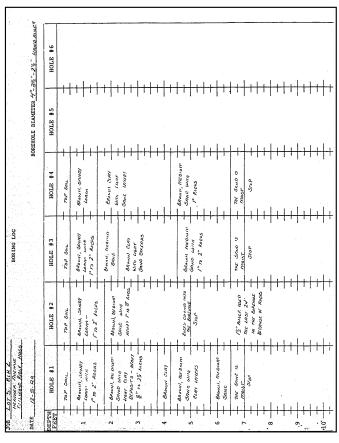
by Inspect Minnesota and Midwest Soil Testing. Owner/Occupant: Date:



		Log Of So	il Borin	<u>gs</u>				
		12300 Heather Ave N,	Hugo, MN 5					
		Inspect Minnesota Hand/Bucket	Class	Date sification System				
	Boring Number:		Class	Boring Number				
Surface	_ T		Surface		1			
Elevation		of ground at end of ainfield trench	Elevation					
Boring		ainneid trench	Boring					
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils E	ncountered			
0-12	7.5YR 2.5	/3 Sandy Loam	THUTTES					
73"	Depth To End Of E	Boring Or Mottled Soils		Depth To End Of E	Boring Or Mottled Soil			
		g Relative To System			g Relative To System			
Same	Depth To Bottom (Of Separation	Of System		Depth To Bottom Of Separation	Of System			
-36"	TOT Deparation			от эерагасіон				
	End Of Boring At:			End Of Boring At				
-36" >/=37"				led Soil Present At				
-36" >/=37" Mottl	led Soil Present At:			Water Present At				
-36" >/=37" Mottl	led Soil Present At: Water Present At:	None	Standing		Bottom Of Distribution Medium At:36Inches			







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: 12/22/2018

Issued: 10/10/2017

es:

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expire
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



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

Charles K Thompson, Supervisor Certification & Training Unit