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: 10303 Perkins Ave N, Stillwater Twp, MN 55082

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 very old system (installed in 1977) consists of a pre-cast septic tank, a pre-cast lift tank, and a rock trench drainfield.

Although not compliance criteria, it should be noted that the septic tank inlet baffle is missing and should be replaced as soon as possible.

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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

requirements and attached	sults based on Minnesota Pollution Control Agency (MP orms – additional local requirements may also apply. • Local Unit of Government (LUG) and system own				
within 15 days	, , , , , , , , , , , , , , , , , , ,				
System Status					
System status on da	ate (mm/dd/yyyy):				
(Valid for 3 years	•	ncompliant – Notice of Noncompliance e Upgrade Requirements on page 3)			
<u> </u>	compliance (check all applicable) ic Health (Compliance Component #1) – Imminent thr	reat to public health and safety			
•	nce Conditions (Compliance Component #3) – Immine				
☐ Tank Integrity (Compliance Component #2) – Failing to protect grour	ndwater			
	nce Conditions (Compliance Component #3) – Failing	· · · · · · · · · · · · · · · · · · ·			
	(Compliance Component #4) – Failing to protect ground				
☐ Operating pern	nit/monitoring plan requirements (Compliance Compon	nent #5) – Noncompliant			
Property Information	Parcel ID# or Sec/Twp.	/Range:			
	'	son for inspection: Property Sale			
Property owner: Bill & Da		ner's phone: 612-360-0632			
or					
Owner's representative:	_	Representative phone:			
	Rep				
Local regulatory authority:	·	ulatory authority phone: 651-430-4052			
	·	ulatory authority phone: 651-430-4052			
Brief system description: Comments or recommenda	Washington County Reg A pre-cast septic tank , a pre-cast lift tank, and a rock tions:	ulatory authority phone: 651-430-4052 ctrench drainfield.			
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www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 1 of 3

Property address: _ 10303 Perkins Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 4/26/2017 *** 4/26/2017 **** A section of the contract of the contrac

<u>1.</u>	Impact on Public Health — Compliance component #1 of 5							
	Co	Compliance criteria:				Verification method(s):		
		stem discharge sewage to the bund surface.	☐ Yes	⊠ No	\boxtimes	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)		
	•	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) ☐ Other methods not listed (See Comments/Explanation)		
	No	omments/Explanation: one of the above found. soil boring over the drainfield indicated	no signs	of ponding or blac	k/gre	ey soils.		
2.	Ta	ank Integrity — Compliance com	nponent	#2 of 5				
	Co	Compliance criteria:			Ve	erification method(s):		
		stem consists of a seepage pit,	☐ Yes	⊠ No		Probed tank(s) bottom		
		sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be				Examined construction records		
	COI	mpliant if allowed in local ordinance.				Examined Tank Integrity Form (Attach) Observed liquid level below operating depth		
	de	wage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Examined empty (pumped) tanks(s) Probed outside tank(s) for "black soil"		
		If yes, which sewage tank(s) leaks:				Unable to verify (See Comments/Explanation)		
		ny "yes" answer above indica vstem is Failing to Protect Gr			\boxtimes	Other methods not listed (See Comments/Explanation)		
	Comments/Explanation: Although not compliance criteria, it should be noted that the septic tank inlet baffle is missing and should be replaced as so as possible.							
3.	Ot	ther Compliance Conditions	5 – Comp	oliance compone	nt #:	3 of 5		
	a.	Maintenance hole covers are damaged	d, cracked	, unsecured, or app	ear	to structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b.	Other issues (electrical hazards, etc.) to in *System is an imminent threat to put			pact	public health or safety. ☐ Yes* ☒ No ☐ Unknown		
		Explain:						
	C.	System is non-protective of ground wa *System is failing to protect ground		er conditions as def	termi	ined by inspector ☐ Yes* ☒ No		
		Explain:						

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Property address: 10303 Perkins Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 4/26/2017

Date of installation: 1977	☐ Unkr	nown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes No		Soil observation does not expire. Previous soil		
Compliance criteria:	unless site conditions have been al	observations by two independent parties are sufficient, Inless 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 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	/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: Reviewed design and permit record	ds.	
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 Failing to Protect Groundwater.	he syst	em is	*May be reduced up to 15 percent in Ordinance.	f allowed by Local	
Operating Permit and Nitrogen B	MP* – C	Compliance	component #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	IP?	☐ Yes [☑ No If "yes", B below is required		
BMP=Best Management Practice(s) specific	ied in the	system des	gn		
If the answer to both questions is "no",	this sec	tion does	not need to be completed.		
Compliance criteria					
a. Operating Permit number:			☐ Yes ☐ No		
Have the Operating Permit requirements to	een met	?	☐ res ☐ No		
b. Is the required nitrogen BMP in place and			☐ 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.

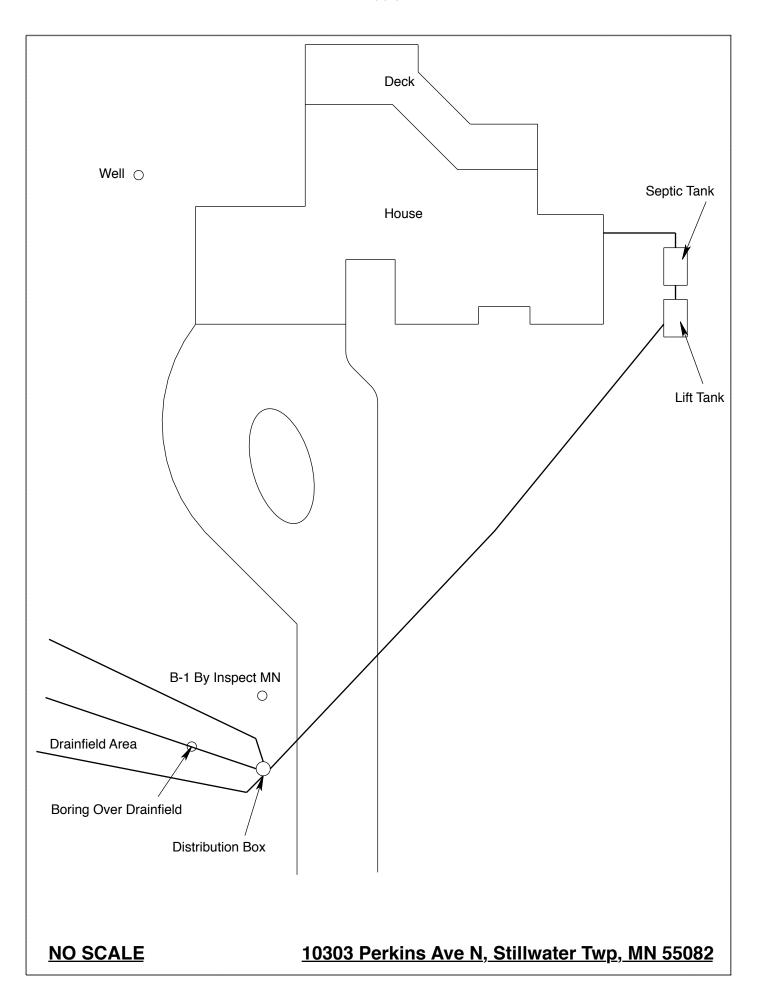
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: April 26, 2017	Time: 12:45 PM				
Property Address: 10303 Perkins Ave N, Stillwater Twp, MN	Zip: 55082				
Property Owner: Bill & Danette McCarthy	Phone: 612-360-0632				
Tank(s) Tank(s)Material Soil Treatment System Septic 1 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.): 1200				
How long has seller owned the property? Number of res	sidents in home?				
Number of bedrooms? 4 Are all floors drained by gr					
Garbage disposal? Whirlpool bath?					
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 bu	ildings?				
Location of septic system on lot? Tanks - South Side, Drainfield -	West 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? 2015 Name of pum	per:				
How often pumped in previous years?	on a monitoring plan?				
Have you received notices from any government agency concerning	ng this system?				
Is your property located in a shoreland management area? N					
Do you have any additional information that should be given to the	e new owner?				
I hereby certify that the above information is correct to the best of my knowledge considered "non-compliant/failing" per MPCA rules, that the inspector must by local government unit within 15 days of the date of inspection completion. I all this report, that I/we are ultimately responsible for payment of all fees for all wo	law submit a copy of this report to the so agree that unless otherwise noted in				

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



Log Of Soil Borings

Location of Project: 10303 Perkins Ave N, Stillwater Twp, MN 55082					
Borings Made By: Inspect Minnesota				Date:	4/26/17
Auger Used: Hand/Bucket			Classification System: USDA		
	Boring Number:	1		Boring Number:	
Surface Same grou		ind surface as last ofield trench	Surface Elevation of Boring	of	
Depth In Inches	Soils E	<u>ncountered</u>	Depth In Inches	Soils Er	ncountered_
· · Sous Focoliniered					
60" Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox			
Same Elevation Of Boring Relative To System		Elevation Of Boring Relative To System			
-34" Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media			
≥26" Of Separation			Of Separation		
		CO!!		End Of Davids - At	
	End Of Boring At:	60"		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: 34 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.

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