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

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 and a rock trench drainfield.

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 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 (MPC	A) For local tracking purposes:
requirements and attached forms – additional local requirements may also apply. Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
System Status	
System status on date (mm/dd/yyyy):2/15/2016	
_ .	ompliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)	
 ☐ Impact on Public Health (Compliance Component #1) – Imminent three ☐ Other Compliance Conditions (Compliance Component #3) – Imminent ☐ Tank Integrity (Compliance Component #2) – Failing to protect ground ☐ Other Compliance Conditions (Compliance Component #3) – Failing to ☐ Soil Separation (Compliance Component #4) – Failing to protect ground ☐ Operating permit/monitoring plan requirements (Compliance Component) 	threat to public health and safety water protect groundwater dwater
Property Information Parcel ID# or Sec/Twp/R	ange:
·	n for inspection: Property Sale
Property owner: Laine McGee Owner	r's phone: 651-437-4236
Or	
•	sentative phone:atory authority phone: 651-430-4052
Brief system description: Pre-cast septic tank and a rock trench drainfield.	<u></u>
Comments or recommendations:	
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 Certifi	cation number: L5342
	cense number: L2896
Inspector signature: Brian Humpal F	Phone number: 651-492-7550
Necessary or Locally Required Attachments	
	per local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer,	

1.	Impact on Public Health – Compliance component #1 of 5						
	Co	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) 			
		vstem cause sewage backup into velling or establishment.	☐ Yes ⊠ No	"Black soil" above soil dispersal systemSystem requires "emergency" pumpingPerformed dye test			
•		y "yes" answer above indicates the system is 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.					
	INC	one of the above found.					
_	_						
2.	Ιā	ank Integrity – Compliance con	nponent #2 of 5				
	Co	ompliance criteria:	T	Verification method(s):			
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes ⊠ No	☑ Probed tank(s) bottom☑ Examined construction records			
	Se	repage 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 esigned operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)			
	If y	yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"☐ Unable to verify (See Comments/Explanation)			
		ny "yes" answer above indica ystem is Failing to Protect Gr		☐ Other methods not listed (See Comments/Explanation)			
		omments/Explanation:					
	Lo	wered underwater camera into tank -	baffles and tank walls	s OK.			
3.	Ot	ther Compliance Conditions	s – Compliance cor	mponent #3 of 5			
	a.	Maintenance hole covers are damage	d, cracked, unsecured	d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	 b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknow *System is an imminent threat to public health and safety 						
		Explain:					
	C.	System is non-protective of ground wa	m is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☐ No				
*System is failing to protect groundwater		and an analysis and an analysi					
		Explain:					

Property address: 16544 18th St S, Lake St. Croix Beach, MN 55043

Inspector initials/Date: 2/15/2016

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1.	Soil Separation – Compliance compor	nent #4 o	of 5				
	Date of installation: 1977	Unkr	nown	Ve	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	⊠ No		oil observation does not expire. Proservations by two independent pa		
	Compliance criteria:			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) (Attach b Two previous verifications (Attach borin Not applicable (Holding tank(s), no drainf.		ch boring logs)	
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	ce from periodically			☐ Unable to verify (See Comments/Explanation) ☐ 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:			Reviewed design and permit records.		S.	
	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 or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical	☐ Yes ☐ No	□ No	Indicate depths of elevations			
			_	_A.	Bottom of distribution media	See Attached Boring Log(s)	
				В.	Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.			C.	System separation		
				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.							
5 .	Operating Permit and Nitrogen B		•			licable	
	Is the system operated under an Operating Per		☐ Yes ⊠		•		
	Is the system required to employ a Nitrogen BN BMP-Rest Management Practice(s) specific		☐ Yes ⊠		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 section does not need to be completed.							
Compliance criteria							
	a. Operating Permit number: Have the Operating Permit requirements been met?		☐ Yes ☐ No ? ☐ Yes ☐ No				
	b. Is the required nitrogen BMP in place and properly functioning?						
	Any "no" answer indicates Noncom	pliance.					

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.

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use

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800-657-3864

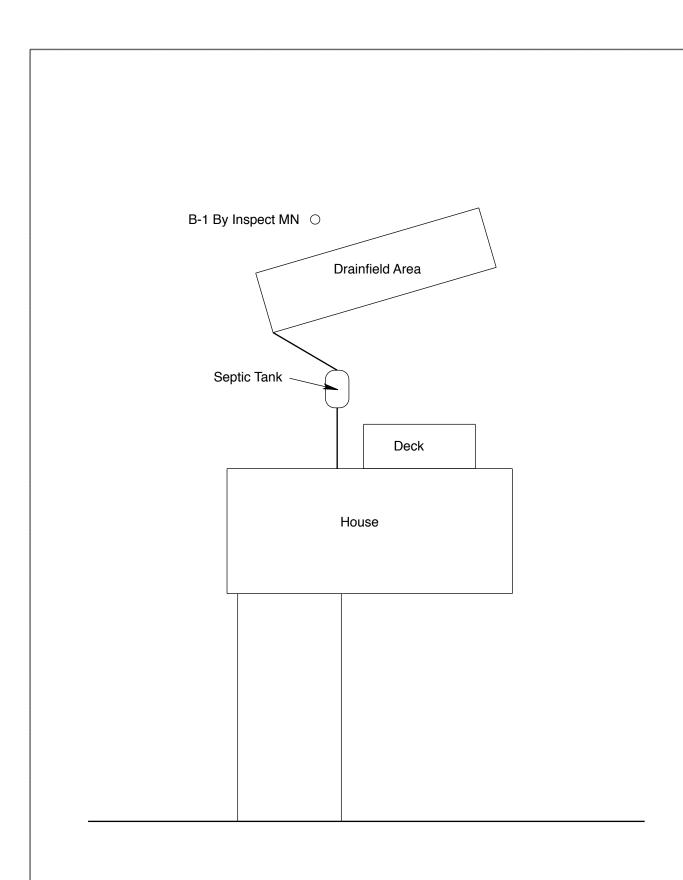
Property address: 16544 18th St S, Lake St. Croix Beach, MN 55043

Inspector initials/Date: 2/15/2016

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: February 15, 2016	Time: 11:45 AM					
Property Address: 16544 18th St S, Lake St. Croix Beach, MN	Zip: 55043					
Property Owner: Laine McGee	Phone: 651-437-4236					
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 performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and proper maintenance of the second surface to facilitate access and the second surface to facilitate access access and the second surface to facilitate access access access and the second surface to facilitate access ac	ers should be made accessible to					
	Tank size (gals.): 1250					
	sidents in home?					
Number of bedrooms? 2 Are all floors drained by g						
Garbage disposal? Whirlpool bath?	,					
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles connected to the se	eptic system?					
Are any buildings on this property such as garages or out-building	gs connected to this system?					
Are there any additional systems on this property serving other bu	Are there any additional systems on this property serving other buildings?					
Location of septic system on lot? North Side						
	e well a deep well?					
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: Pinky's Sewer Service					
How often pumped in previous years? Is system 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:	Date:					



Log Of Soil Borings

Location of Project: 16544 18th St S, Lake St. Croix Beach, MN 55043						
Borings Made By: Inspect Minnesota				2/15/16		
Auger Used: Hand/Bucket		Classification System: U		USDA		
Boring Number: 1		Boring Number:				
Surface	Same arou	ınd surface as last	Surface			
Elevation	OF I	nfield trench	Elevation	of		
Boring	uran		Boring			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	Soils Encountered	
0-37	7 5VR 2 5	/2 Loamy Sand	Tilches			
37-70		edium Sand With				
		Of Gravel				
70-96	5YR 5/4 Med	lium Coarse Sand				
96" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox		
Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System		
-45" Depth To Bottom Of Distribution Media			Depth To Bottom C	of Distribution Media		
≥51" Of Separation			Of Separation			
				Γ		
End Of Boring At: 96"			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	: 45 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



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Christopher R. Uebe	Designer (Certified)	03/04/2018
Christopher R. Uebe	Inspector (Certified)	03/04/2018



St. Paul, Minnesota 55155-4194

Steven Giddings Manager Environmental Business Assistance Section