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: 1370 Quant Ave S, Lake St Croix Beach, MN 55043

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 1978) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years. This house is presently vacant.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. In addition, there is effluent ponding in the drainfield distribution box. This is an indication that the drainfield may be near the end of its useful life.

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.

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): _7/9/2019	
<u> </u>	npliant – 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 threat the 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 #4)	reat to public health and safety ter otect groundwater vater
Property Information Parcel ID# or Sec/Twp/Range	ge:
1 ,	J - ·
	or inspection: <u>Property Transfer</u> phone:
Property owner: Gordon & Peggy Kircher Owner's or	phone:
Property owner: Gordon & Peggy Kircher Owner's Owner's Owner's representative: Tom Drompp - Coldwell Banker Burnet Representative:	· · · · · · · · · · · · · · · · · · ·
Property owner: Gordon & Peggy Kircher Owner's Owner's Owner's representative: Tom Drompp - Coldwell Banker Burnet Local regulatory authority: Washington County Regulator	phone:
Property owner: Gordon & Peggy Kircher Owner's Owner's representative: Tom Drompp - Coldwell Banker Burnet Represer Local regulatory authority: Washington County Regulator Brief system description: A pre-cast septic tank and a rock trench drainfield. Comments or recommendations: Although not a compliance criteria, it should be noted that the septic tank manhole cover to the ground surface to facilitate easier access and proper maintenance. In additional control of the property owner's and proper maintenance.	phone: htative phone: 651-336-5518 ry authority phone: 651-430-6655 er is buried. I recommend extending this dition, there is effluent ponding in the
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Property address: 1370 Quant Ave S, Lake St Croix Beach, MN 55043

Inspector initials/Date: 7/9/201984

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 Excessive ponding in soil system/D-boxes 		
		stem discharge sewage to drain tile surface waters.	☐ Yes No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system 		
		stem cause sewage backup into elling or establishment.	☐ Yes ⊠ No	System requires "emergency" pumping Performed dye test		
		ny "yes" answer above indicates Imminent Threat to Public Heal		 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 		
	Alt thi	s cover to the ground surface to facilita	ate easier access and p	eptic tank manhole cover is buried. I recommend extending roper maintenance. In addition, there is effluent ponding in affield may be near the end of its useful life.		
2.	Ta	nk Integrity – Compliance com	ponent #2 of 5			
	Co	ompliance criteria:		Verification method(s):		
		stem 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 npliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
		wage tank(s) leak below their signed operating depth.	☐ Yes ⊠ No	☐ Examined empty (pumped) tanks(s)		
	lf y	res, 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.			☐ Offable to Verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)		
3.	Lo	mments/Explanation: wered underwater camera into tank - because the compliance conditions				
	a.	Maintenance hole covers are damaged	d, cracked, unsecured, o	r appear to structurally unsound.		
b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Ur *System is an imminent threat to public health and safety				ely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown		
		Explain:				
	C.	System is non-protective of ground wa *System is failing to protect ground Explain:		is determined by inspector ☐ Yes* ☒ No		

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Property address: 1370 Quant Ave S, Lake St Croix Beach, MN 55043

Inspector initials/Date: 7/9/2019

1.	Soil Separation – Compliance compor	nent #4 of 5			
	Date of installation: 1978 Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Unknown☐ Yes ☒ No	Verification method(s): Soil observation does not expire. Problem of the problem		
	Compliance criteria:		observations by two independent pa unless site conditions have been alt		
	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	⊠ Yes □ No	requirements differ. Conducted soil observation(s) (Attach boring Two previous verifications (Attach boring log. Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation)		
	saturated soil or bedrock.		☑ Other (See Comments/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	s.	
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"E	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate 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)		A. Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.		C. System separation		
			D. Required compliance separation*		
Any fine? analysis shows indicates the system is			*May be reduced up to 15 percent if Ordinance.	allowed by Local	
5.	Operating Permit and Nitrogen B.	MP* – Compliance co	omponent #5 of 5 Not appl	icable	
	Is the system operated under an Operating Per	mit?	No If "yes", A below is required		
	Is the system required to employ a Nitrogen BMP?				
	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:		□ Vaa □ Ni-		
	Have the Operating Permit requirements I	peen met?	Yes No		
	b. Is the required nitrogen BMP in place and	properly functioning?	☐ Yes ☐ No		
	Any "no" answer indicates Noncom	nlianco			

Any "no" answer indicates Noncompliance.

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

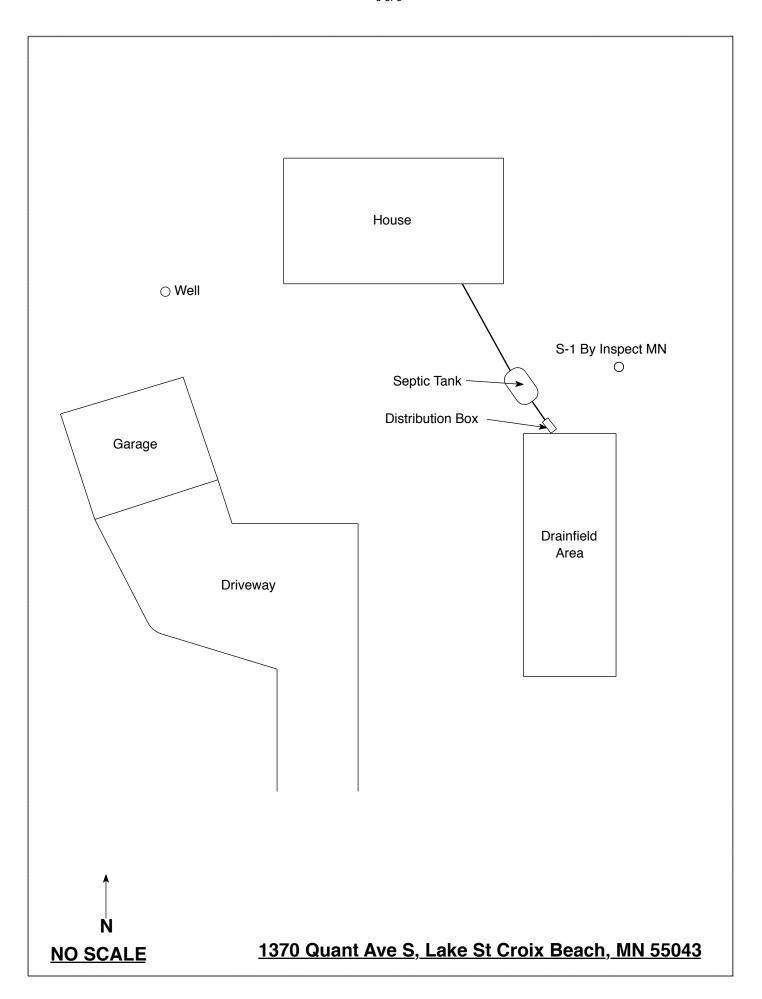
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: July 9, 2019	Time: 1:30 PM		
Property Address: 1370 Quant Ave S, Lake St Croix Beach, MN	Zip: 55043		
Property Owner: Gordon & Peggy Kircher	Phone:		
Tank(s) Tank(s)Material Soil Treatment System	Other Alternative system Experimental system Cesspool system Other system		
Are the tank maintenance covers accessible? ☐ Yes ☒ No *If n			
performed through the maintenance holes. Maintenance hole cove			
the ground surface to facilitate access and proper maintenance of the	ie system.		
	Cank size (gals.): 1200		
	idents in home?		
Number of bedrooms? 3 Are all floors drained by gr	avity? Unknown		
Garbage disposal? Whirlpool bath?			
More than one system (laundry, etc.)?			
Does this property have any footing drain tiles connected to the sep	otic 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 bui	ldings?		
Location of septic system on lot? South 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? 2016 Name of pump	per: Pinky's Sewer Service		
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			

Date:

by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant:



Log Of Soil Observations

Location of Project: 1370 Quant Ave S, Lake St Croix Beach, MN 55043					
Observations Made By: Inspect Minnesota			Date:	7/9/19	
Auger Used: Hand/Bucket		-		USDA	
Soil Observation: 1		9	Soil Observation:		
		and surface as last	Surface Elevation Observation		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	ncountered
0-28 28-56 56-80	10YR 3/3 Fin	e To Medium Sand e To Medium Sand e To Medium Sand			
80"	Depth To End Of So	oil Observation Or Redox		Depth To End Of Soi	l Observation Or Redox
Same				Elevation Of Observa	ation Relative To System
-36" Depth To Bottom Of Distribution Media			Depth To Bottom O	of Distribution Media	
≥44" Of Separation			Of Separation		
		0.0"	- 155-		
End Of So	oil Observation At:	80"		oil Observation At:	
Redox Present At: None			Redox Present At:		
Standing Water Present At: None		Standing	Water Present At:		

Bottom Of Distribution Medium At	: 36 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: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	, v , v
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	



520 Lafayette Road North St. Paul, Minnesota 55155-4194 Nich Haig

Nick Haig, Supervisor Certification and Training Unit