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: 1411 Racine 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 system consists of a precast two-compartment septic tank, a pre-cast lift tank, and a seepage bed.

Although not compliance criteria, it should be noted that the seepage bed is located in an easement on the neighboring property.

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

	sults based on Minnesota Pollution Control Agency (Norms – additional local requirements may also apply.	For local tracking purposes:		
Submit completed form to within 15 days	o Local Unit of Government (LUG) and system ov	vner		
System Status				
System status on da	ate (mm/dd/yyyy):5/4/2017			
(Valid for 3 years	•	oncompliant – Notice of Noncompliance ee Upgrade Requirements on page 3)		
☐ Impact on Pub☐ Other Complia☐ Tank Integrity☐ Other Complia☐ Soil Separation	compliance (check all applicable) lic Health (Compliance Component #1) – Imminent in the Compliance Component #3) – Imminent in (Compliance Component #2) – Failing to protect groupe Conditions (Compliance Component #3) – Failing to protect groupe (Compliance Component #4) – Failing to protect group (Compliance Component #4)	nent threat to public health and safety undwater g to protect groundwater roundwater		
		, ,		
5				
Property Information				
	Racine Ave S, Lake St. Croix Beach, MN 55043 Re			
Property owner: Alan & I	Linda Marcu O'	wner's phone:		
Owner's representative:	R	epresentative phone:		
Local regulatory authority:		egulatory authority phone: 651-430-4052		
Brief system description:	A pre-cast two-compartment septic tank, a pre-cas			
Comments or recommenda		, , ,		
Although not compliance ci	iteria, it should be noted that the seepage bed is loc	ated in an easement on the neighboring property.		
Certification				
determination of future syst	necessary information has been gathered to determine tem performance has been nor can be made due to tem, inadequate maintenance, or future water usage.			
Inspector name: Brian H	umpal C	ertification number: _L5342		
Business name: Inspect	Minnesota, Midwest Soil Testing	License number: _L2896		
Inspector signature:	Brian Humpal	Phone number: 651-492-7550		
Necessary or Locall	y Required Attachments			
⊠ Soil boring logs	· <u>-</u>	ms per local ordinance		
☐ Other information (list	-	•		

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Property address: 1411 Racine Ave S, Lake St. Croix Beach, MN 55043

Inspector initials/Date: 5/4/2017

<u>1.</u>	Impact on Public Health – C	compliance compone	nt #1 of 5			
	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 indica 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.					
	None of the above lound.					
2	Tank Integrity Compliance					
<u>2.</u>	Tank Integrity – Compliance c	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		☐ Examined Tank Integrity Form (Attach)			
	compliant if allowed in local ordinance.		☐ 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 indestructions system is Failing to Protect (☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 			
	Comments/Explanation:					
	Lowered underwater camera into tank	s - baffles and tank wal	lls OK.			
	Lift pump and alarm were operational	at the time of the inspe	ction.			
<u>3.</u>	Other Compliance Conditio	ns – Compliance cor	mponent #3 of 5			
	a. Maintenance hole covers are damage	ged, cracked, unsecured	d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b. Other issues (electrical hazards, etc.) to *System is an imminent threat to		ersely impact public health or safety. \square Yes* \boxtimes No \square Unknown ety			
	Explain:					
	c. System is non-protective of ground *System is failing to protect ground		as as determined by inspector ☐ Yes* ☒ No			
	Explain:					

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Property address: 1411 Racine Ave S, Lake St. Croix Beach, MN 55043

Inspector initials/Date: 5/4/2017

Soil Separation – Compliance component #4 of 5 Date of installation: 2002 Unknown Verification method(s): Shoreland/Wellhead protection/Food Beverage ☐ Yes ☐ No Soil observation does not expire. Previous soil Lodging? observations by two independent parties are sufficient. Compliance criteria: unless site conditions have been altered or local requirements differ. ☐ Yes ☐ No For systems built prior to April 1, 1996, and ☐ Conducted soil observation(s) (Attach boring logs) not located in Shoreland or Wellhead Protection Area or not serving a food, ☐ Two previous verifications (Attach boring logs) beverage or lodging establishment: ☐ Not applicable (Holding tank(s), no drainfield) Drainfield has at least a two-foot vertical ☐ Unable to verify (See Comments/Explanation) separation distance from periodically ☑ Other (See Comments/Explanation) saturated soil or bedrock. Non-performance systems built April 1, Comments/Explanation: 1996, or later or for non-performance Reviewed design and permit records. 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.* "Experimental", "Other", or "Performance" ☐ Yes ☐ No Indicate depths of elevations systems built under pre-2008 Rules; Type IV See Attached or V systems built under 2008 Rules (7080. A. Bottom of distribution media Boring Log(s) 2350 or 7080.2400 (Advanced Inspector License required) B. Periodically saturated soil/bedrock Drainfield meets the designed vertical separation distance from periodically C. System separation saturated soil or bedrock. D. Required compliance separation* Any "no" answer above indicates the system is *May be reduced up to 15 percent if allowed by Local Failing to Protect Groundwater. Ordinance. 5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable Is the system operated under an Operating Permit? ☐ Yes ☒ No If "yes", A below is required Is the system required to employ a Nitrogen BMP? ☐ 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 section does not need to be completed. Compliance criteria a. Operating Permit number: ☐ Yes ☐ No Have the Operating Permit requirements been met? b. Is the required nitrogen BMP in place and properly functioning? ☐ Yes ☐ No 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.

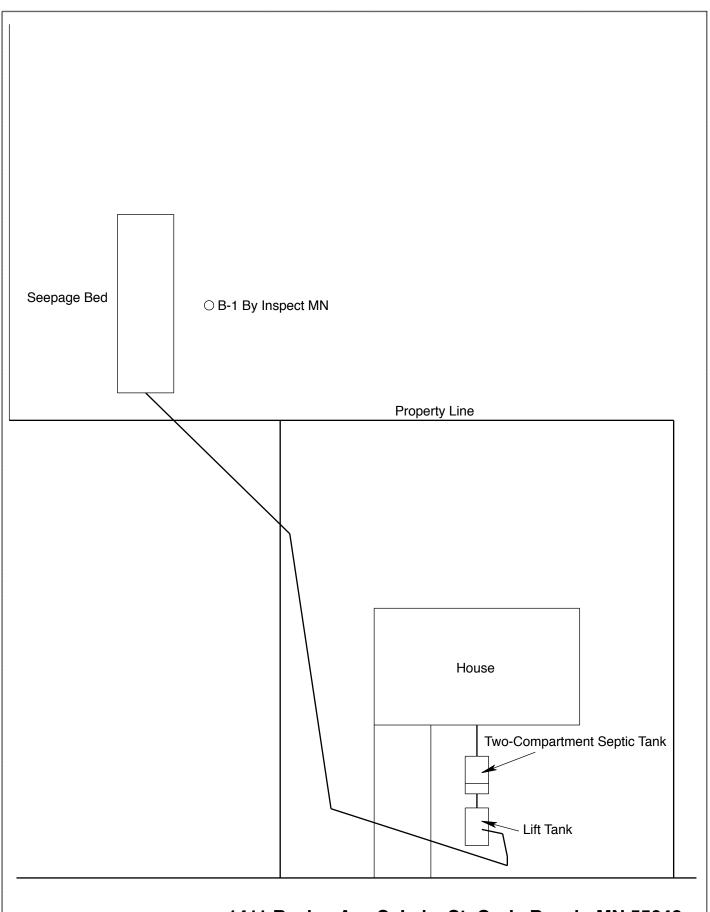
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 4, 2017	Time: 8:30 AM				
Property Address: 1411 Racine Ave S, LSCB, MN	Zip: 55043				
Property Owner: Alan & Linda Marcu	Phone:				
Tank(s) Tank(s)Material Soil Treatment System Septic 2 Comp 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 cov					
the ground surface to facilitate access and proper maintenance of	the system.				
Year house built: 1969 Year septic installed: 2002	Tank size (gals.): 1500 2-Comp				
How long has seller owned the property? Number of re	sidents in home?				
Number of bedrooms? 3 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-buildings connected to this system?					
Are there any additional systems on this property serving other bu	ildings?				
Location of septic system on lot? Tanks - West Side, Bed - Northo	east Side In An Easement				
Location of water well on lot? City Water Is the	e well a deep well? N/A				
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? 2014 Name of pum	per:				
How often pumped in previous years?					
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 knowledg 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 a	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.



1411 Racine Ave S, Lake St. Croix Beach, MN 55042

NO SCALE

Log Of Soil Borings

Location of Project: 1411 Racine Ave S, Lake St. Croix Beach, MN 55043					
Вс		Inspect Minnesota	Date:		5/4/17
Auger Used: Hand/Bucket		Hand/Bucket	Classi	Classification System: USDA	
i	Boring Number:	1	Boring Number:		
TEIEVALION OLI		ind surface as last ofield trench	Surface Elevation (Boring		
Depth In Inches	Soils Encountered		Depth In Inches	Soils Er	<u>ncountered</u>
0-13 13-21 21-36 36-80	Trace 7.5YR 2.5/3 Loa ≈10% Ro 7.5YR 3/3 M ≈10% Ro 10YR 5/4 Mo	Loamy Sand With Of Gravel my Sand With Gravel ock Fragments edium Sand With ock Fragments edium Sand With Of Gravel			
80" [Depth To End Of B	oring Or Redox	I	Depth To End Of Bo	oring Or Redox
Same E	Same Elevation Of Boring Relative To System		Elevation Of Boring Relative To System		
-33" Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media			
≥47" Of Separation			Of Separation		
		00"		End Of Davids - At	
	End Of Boring At:	80"		End Of Boring At:	
Redox Present At: None Standing Water Present At: None		Redox Present At: Standing Water Present At:			
Standing \	water Present At:	None	Standing	water Present At:	

Bottom Of Distribution Medium At: 33 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