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

Date: April 27, 2017 **Time:** 9:45 AM **Owner:** Kevin & Beth Shea

Inspection Address: 1585 Orwell Ave N, West Lakeland 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 system consists of two pre-cast septic tanks, a pre-cast lift 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 (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):4/27/2017	
	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 the Tank Integrity (Compliance Component #2) – Failing to protect groundware Other Compliance Conditions (Compliance Component #3) – Failing to protect groundware Soil Separation (Compliance Component #4) – Failing to protect groundware Operating permit/monitoring plan requirements (Compliance Component	reat to public health and safety ter otect groundwater vater
Property Information Parcel ID# or Sec/Twp/Ran	ge:
Property owner: Kevin & Beth Shea Owner's	for inspection: Property Sale phone:
Owner's representative: Represe	ntative phone:
Local regulatory authority: Washington County Regulator	ry authority phone: 651-430-4052
Brief system description:Two pre-cast septic tanks, a pre-cast lift tank, and a rock of Comments or recommendations:	rench drainfield.
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 unknow possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal Certification	ion number: _L5342
	nse number: L2896
Inspector signature: Brian Humpal Pho	one number: 651-492-7550
Necessary or Locally Required Attachments	
_ · · · · · · <u>-</u>	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lie	cense

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Property address: 1585 Orwell Ave N, West Lakeland Twp, MN 55082

Inspector initials/Date: 4/27/2017

<u>1.</u>	lm	mpact on Public Health – Compliance component #1 of 5					
	Co	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" above soil dispersal system 			
		stem cause sewage backup into velling 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)			
	Comments/Explanation: None of the above found.						
•	_						
2.	Ιā	ank Integrity — Compliance com	nponent #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		☑ Examined construction records☐ Examined Tank Integrity Form (Attach)			
	coi	mpliant if allowed in local ordinance.		☐ Observed liquid level below operating depth			
		wage tank(s) leak below their signed operating depth.	☐ Yes ☒ No	☐ Examined empty (pumped) tanks(s)			
		ves, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"			
Any "ves" answer above indicates the			 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 				
	Сс	omments/Explanation:					
	Lo	wered underwater camera into tanks -	- baffles and tank walls OK.				
	Lif	t pump and alarm were operational at	the time of the inspection.				
	_						
3.	01	ther Compliance Conditions	5 – Compliance compone	nt #3 of 5			
	a.	Maintenance hole covers are damaged	d, cracked, unsecured, or app	pear to structurally unsound. ☐ Yes* ☐ No ☐ Unknown			
	b.	Other issues (electrical hazards, etc.) to it *System is an imminent threat to put		npact public health or safety. ☐ Yes* ☒ No ☐ Unknown			
		Explain:					
	C.	System is non-protective of ground wa *System is failing to protect ground		termined by inspector ☐ Yes* ☒ No			
		Explain:					

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Property address: 1585 Orwell Ave N, West Lakeland Twp, MN 55082

Inspector initials/Date: 4/27/2017

Date of installation: 1998	☐ Unkno	wn	Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes [Soil observation does not expire. Pr			
Compliance criteria:			observations by two independent parties are sufficient 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) (a Two previous verifications (Attac 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/Explanation) ☐ 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.*						
"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 the system is Failing to Protect Groundwater. *May be reduced up to 15 percent if allowed by Local Ordinance.			f allowed by Local			
Operating Permit and Nitrogen B	MP* – Co	mpliance c	omponent #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 BN	IP?	☐ Yes 🖂	No If "yes", B below is required			
BMP=Best Management Practice(s) specia	fied in the sy	stem desigr	1			
If the answer to both questions is "no",	this secti	on does n	ot 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			☐ 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.

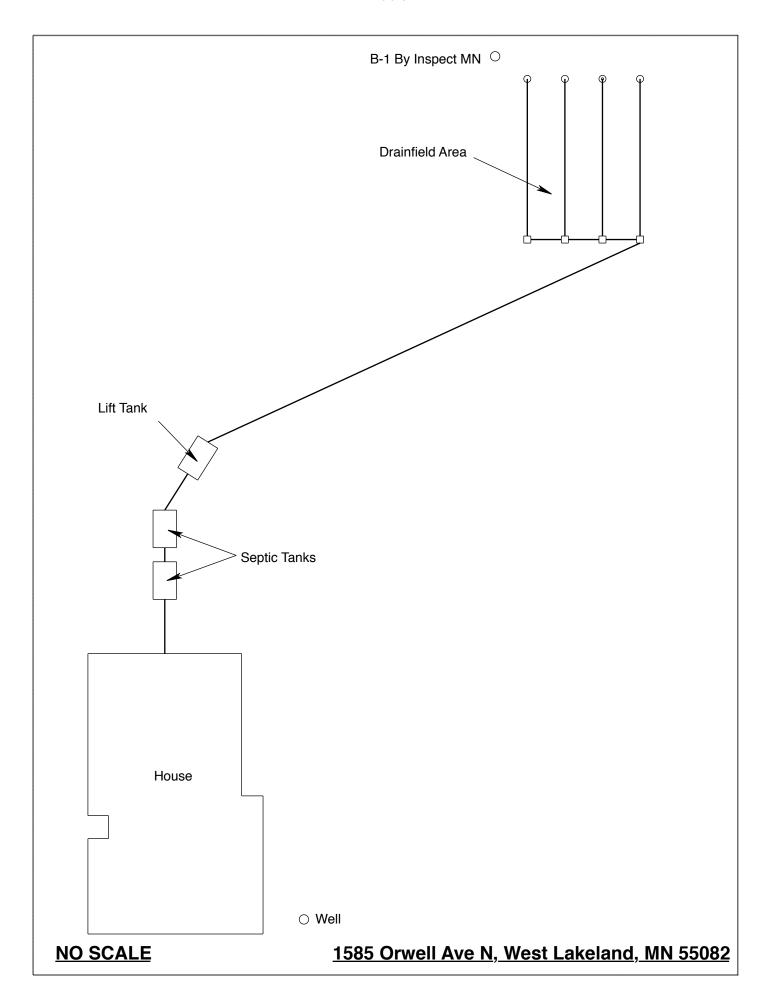
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: April 27, 2017	Time: 9:45 AM			
Property Address: 1585 Orwell Ave N, West Lakeland, MN	Zip: 55082			
Property Owner: Kevin & Beth Shea	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 Are the tank maintenance covers accessible? Yes No *If the performed through the maintenance holes. Maintenance hole covers	Other Alternative system Experimental system Cesspool system Other system no, proper maintenance must be			
the ground surface to facilitate access and proper maintenance of t	he system.			
Year house built: 1998 Year septic installed: 1998 Thow long has seller owned the property? Number of results in the septic installed: 1998 Thom long has seller owned the property?	Γank size (gals.): 2-1000 sidents in home?			
Number of bedrooms? 4 Are all floors drained by gr				
Garbage disposal? Whirlpool bath?				
More than one system (laundry, etc.)?	ntia avatam?			
Does this property have any footing drain tiles connected to the se	pue 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? Northeast Side				
Location of water well on lot? Southeast Side Is the 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? 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?				
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 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: 1585 Orwell Ave N, West Lakeland, MN 55082						
Borings Made By: Inspect Minnesota				Date:	4/27/17	
Auger Used: Hand/Bucket			Class	ification System:	USDA	
	Boring Number:	1		Boring Number:		
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation Boring				
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered		
0-14 14-26 26-65 65-70	10YR 4/3 Sa 10YR 4/4 Fin 10YR 4/4 Fine T 10YR 3/4 Very F	2 Sandy Loam ndy Loam (Moist) e To Medium Sand To Medium Sand With Fine Sand Layers And 15/8 Redox				
65"	Depth To End Of B	oring Or Redox		Depth To End Of B	oring Or Redox	
Same	Elevation Of Boring	g Relative To System		Elevation Of Boring	g Relative To System	
-26" Depth To Bottom Of Distribution Media				of Distribution Media		
=39" Of Separation			Of Separation			
	= 100= 1	70"		= 1065 t ::		
	End Of Boring At:	70"		End Of Boring At:		
	Redox Present At:	65"		Redox Present At:		
Standing Water Present At: None		Standing	Water Present At:			

Bottom Of Distribution Medium At: 26 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