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 COMPLIANCE REPORT

Inspection Address: 9350 31st St N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the limited records on file at the City of Lake Elmo. This very old system consists of a pre-cast septic tank, a cesspool w/ pump, and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the cesspool(s) and the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to <u>verify</u> the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

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): 9/5/2017			
<u> </u>	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 ☐ 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	nreat to public health and safety ater rotect groundwater water		
Property Information Parcel ID# or Sec/Twp/Rai	nge:		
· · ·	for inspection: Property Transfer phone: 651-283-1419		
or Owner's representative: Represe	entative phone:		
•	Regulatory authority phone: 651-430-4052		
Brief system description: A pre-cast septic tank, a cesspool w/ pump, and a rock tr	ench drainfield.		
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 unkno possible abuse of the system, inadequate maintenance, or future water usage.			
Inspector name: Brian Humpal Certifica	tion number: L5342		
	nse number: _L2896		
Inspector signature: Brian Humpal Ph	one number: 651-492-7550		
Necessary or Locally Required Attachments			
	r local ordinance		
☐ Other information (list): Report Summary, Property Information, Disclaimer, L	icense		

Property address: 9350 31st St N, Lake Elmo, MN 55042

Inspector initials/Date: 09/05/2017

1.	lm	Impact on Public Health — Compliance component #1 of 5		
2.	Sygror Sygor Sydw Arran Co	estem discharge sewage to the bund surface. Instem discharge sewage to drain tile surface waters. Instem cause sewage backup into velling or establishment. In y "yes" answer above indicates of Imminent Threat to Public Heal of Imments/Explanation: Inne of the above found.	th and Safety.	Verification method(s): Searched for surface outlet Searched for seeping in yard/backup in home Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)
3.	Sy ces Se con Se de If y	stem consists of a seepage pit, sspool, drywell, or leaching pit. sepage pits meeting 7080.2550 may be impliant if allowed in local ordinance. swage tank(s) leak below their signed operating depth. yes, which sewage tank(s) leaks: ny "yes" answer above indicates the impliant is Failing to Protect Grownments/Explanation:	oundwater.	Verification method(s): ☐ Probed tank(s) bottom ☐ Examined construction records ☐ Examined Tank Integrity Form (Attach) ☐ Observed liquid level below operating depth ☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil" ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
	a.	Maintenance hole covers are damaged	d, cracked, unsecured, or app	pear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown
	b. с.	Other issues (electrical hazards, etc.) to in *System is an imminent threat to put Explain: System is non-protective of ground wa *System is failing to protect ground! Explain:	teblic health and safety ter for other conditions as def	

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 2 of 3

Prop	perty address: 9350 31st St N, Lake Elmo, MN	1 55042	Inspector initials/Date: _09	/05/2017 8/	
4.	Soil Separation — Compliance compor	nent #4 of 5			
	Date of installation:	□ Unknown	Verification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes □ No	Soil observation does not expire. Previous soil observations by two independent parties are suf		
	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 boring Two previous verifications (Attach boring logs Not applicable (Holding tank(s), no drainfield)		
	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	ts/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:		
	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	1	
	or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media Bo B. Periodically saturated soil/bedrock	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically				
	saturated soil or bedrock.		C. System separation		
	Any "no" answer above indicates the system is		D. Required compliance separation*	6 11 11 1	
- · · · · · · · · · · · · · · · · · · ·		*May be reduced up to 15 percent i Ordinance.	f allowed by Local		
5.	Operating Permit and Nitrogen B	MP* – Compliance o	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 desig	ın		
	If the answer to both questions is "no",	this section does n	not need to be completed.		
	Compliance criteria				
	a. Operating Permit number:		□ Voc. □ No		
	Have the Operating Permit requirements to	peen met?	Yes No		
	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.

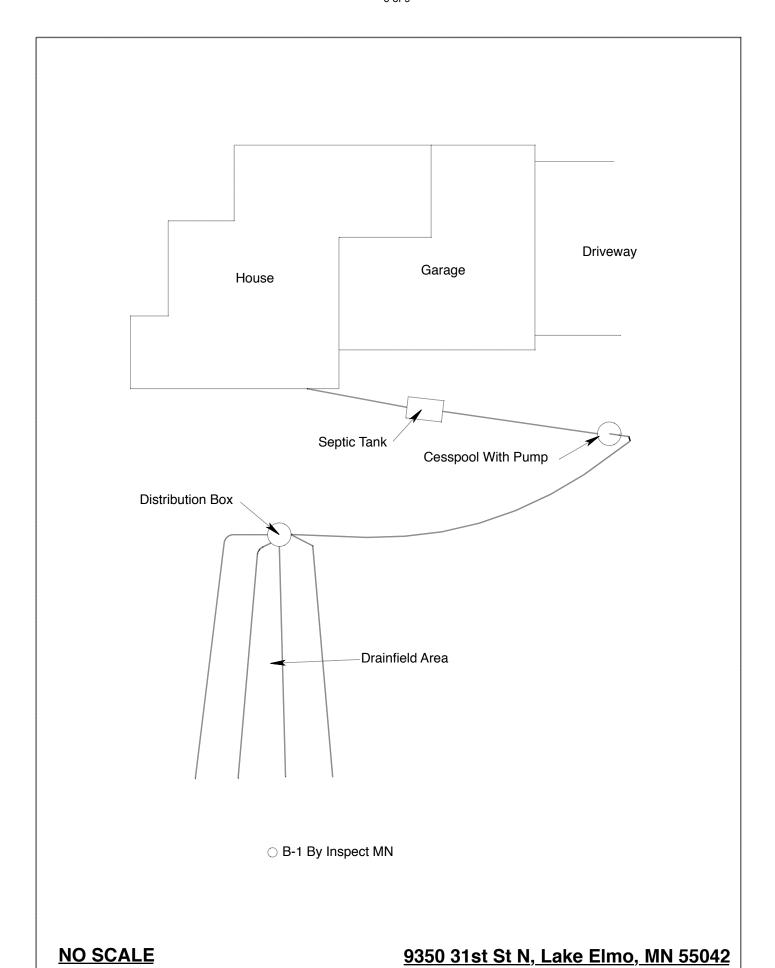
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: September 5, 2017	Time: 2:15 PM		
Property Address: 9350 31st St N, Lake Elmo, MN	Zip: 55042		
Property Owner: Greg & Peg Krieglmeier	Phone: 651-283-1419		
Tank(s) Tank(s)Material Soil Treatment System □ Septic □ 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 Cesspool w/ Pump		
Are the tank maintenance covers accessible? ☐ Yes ☒ No *If i	no, proper maintenance must be		
performed through the maintenance holes. Maintenance hole cover	ers should be made accessible to		
the ground surface to facilitate access and proper maintenance of t	he system.		
Year house built: 1960 Year septic installed:	Γank size (gals.): 1000		
	sidents in home?		
Number of bedrooms? 2 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 se	ptic system?		
Are any buildings on this property such as garages or out-building	s connected to this system?		
Are there any additional systems on this property serving other bu	ildings?		
Location of septic system on lot? West Side			
Location of water well on lot? North Side Is the well a deep well? Unknown			
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. to the system? If yes, explain:	; or have any repairs been made		
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? Y			
Do you have any additional information that should be given to th	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 a 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 lso agree that unless otherwise noted in		

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



Log Of Soil Borings

Location of Project: 9350 31st St N, Lake Elmo, MN 55042					
Borings Made By: Inspect Minnesota				Date:	9/5/17
	Auger Used:	Hand/Bucket	Classi	ification System:	USDA
В	Boring Number:	1		Boring Number:	
Surface Same ground surface as last		Surface Elevation Boring			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	<u>icountered</u>
0-10 10-20 20-30	10YR 7/1 S 7.5YR 10YR 7/1	2 Loamy Sand andy Loam With 5/8 Redox Clay Loam With & 5YR 5/8 Redox			
10" D	epth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
Same El	levation Of Boring	g Relative To System		Elevation Of Boring	Relative To System
-33" Depth To Bottom Of Distribution Media =0" Of Separation			Depth To Bottom C Of Separation	of Distribution Media	
End Of Boring At: 30"			End Of Boring At:		
Redox Present At: 10"				Redox Present At:	
	Vater Present At:	None		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