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: 9965 57th St N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Mongsher Ly, and have reviewed the original design/permit records, along with a previous compliance inspection from 2011, which were on file at the City of Lake Elmo. This older system (installed in 1994) consists of two pre-cast septic tanks and a rock trench drainfield.

It should be noted that a soil boring over the drainfield indicated heavy ponding. This is an indication that the drainfield <u>may</u> be at the end of its useful life.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the 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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	Doc Type. Compliance and Emolement		
Instructions: Inspection results based on Minnesota Pollution Control Agency (requirements and attached forms – additional local requirements may also apply			
Submit completed form to Local Unit of Government (LUG) and system owithin 15 days	wner		
System Status			
System status on date (mm/dd/yyyy): 8/9/2018			
	Ioncompliant – Notice of Noncompliance See Upgrade Requirements on page 3)		
Reason(s) for noncompliance (check all applicable)			
☐ Impact on Public Health (Compliance Component #1) – Imminent	threat to public health and safety		
☐ Other Compliance Conditions (Compliance Component #3) – Imm			
☐ Tank Integrity (Compliance Component #2) – Failing to protect gro	oundwater		
☐ Other Compliance Conditions (Compliance Component #3) – Failing	ng to protect groundwater		
☐ Soil Separation (Compliance Component #4) – Failing to protect of	groundwater		
☐ Operating permit/monitoring plan requirements (Compliance Comp	ponent #5) – Noncompliant		
Property Information Parcel ID# or Sec/Tr	wp/Range:		
· · · · · · · · · · · · · · · · · · ·	Reason for inspection: Property Transfer		
• • • • • • • • • • • • • • • • • • • •	Owner's phone:651-497-0588		
or .			
	Representative phone:		
	Regulatory authority phone: 651-430-6655		
Brief system description: Two pre-cast septic tanks and a rock trench drainf	neia.		
Comments or recommendations: It should be noted that a soil boring over the drainfield indicated heavy ponding the end of its useful life.	g. This is an indication that the drainfield may be at		
Certification			
I hereby certify that all the necessary information has been gathered to determ determination of future system performance has been nor can be made due to possible abuse of the system, inadequate maintenance, or future water usage.	unknown conditions during system construction,		
Inspector name: Brian Humpal/Christopher Uebe C	Certification number: C5342/C9852		
Business name: _Inspect Minnesota, Midwest Soil Testing	License number: L2896		
Inspector signature: Brian Humpal for the	Phone number: _ 651-492-7550		
Necessary or Locally Required Attachments			
	rms per local ordinance		
☑ Soil boring logs☑ System/As-built drawing☑ Other information (list):Report Summary, Property Information, Disclain	rms per local ordinance		
✓ Other information (list). Report Summary, Froperty information, Discial	inier, License		

Property address: 9965 57th St N, Lake Elmo, MN 55042

Inspector initials/Date: 8/9/2018 **24**

1.	Impact on Public Health – Compliance component #1 of 5							
	Compliance criteria:				rification method(s):			
		und surface.	Searched for surface outlet Searched for seeping in yard/backup in home					
		em discharge sewage to drain tile urface waters.	☐ Yes ⊠ No		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Plack acii" shove soil dispersal system			
		em cause sewage backup into lling or establishment.	into ☐ Yes ☒ No ☐ System requires "emerg		"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)			
	It sh	nments/Explanation: ould be noted that a soil boring over e end of its useful life.	the drainfield indic	cated heavy po	ending. This is an indication that the drainfield may be			
2.	2. Tank Integrity — Compliance component #2 of 5							
	Con	npliance criteria:		_ Ve	rification method(s):			
		em consists of a seepage pit, spool, drywell, or leaching pit.	☐ Yes ⊠ No	\boxtimes	Probed tank(s) bottom Examined construction records			
		page pits meeting 7080.2550 may be pliant if allowed in local ordinance.		_ 	Examined Tank Integrity Form (Attach) Observed liquid level below operating depth			
	desi	age tank(s) leak below their gned operating depth.	☐ Yes ⊠ No	_ _ 	Examined empty (pumped) tanks(s) Probed outside tank(s) for "black soil"			
	If ye	s, which sewage tank(s) leaks:			Unable to verify (See Comments/Explanation)			
		Any "yes" answer above indicates the system is Failing to Protect Groundwater.			☐ Other methods not listed (See Comments/Explanation)			
3.	Low	nments/Explanation: ered underwater camera into tanks - ner Compliance Conditions			3 of 5			
	a. N	Maintenance hole covers are damaged	d, cracked, unsecur	red, or appear t	o structurally unsound.			
		. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown *System is an imminent threat to public health and safety						
	E	 Explain: c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater 						
	E	Explain:						

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Inspector initials/Date: 8/9/2018 8/4 () Property address: 9965 57th St N, Lake Elmo, MN 55042 4. Soil Separation - Compliance component #4 of 5 Date of installation: 1994 Unknown Verification method(s): Shoreland/Wellhead protection/Food Beverage Soil observation does not expire. Previous soil Lodging? observations by two independent parties are sufficient, unless site conditions have been altered or local Compliance criteria: 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 previous compliance inspection from 2011. systems located in Shoreland or Wellhead Protection Areas or serving a food, Review design and permit records. beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.* ☐ Yes ☐ No "Experimental", "Other", or "Performance" 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 ☐ Yes ⊠ No Is the system operated under an Operating Permit? 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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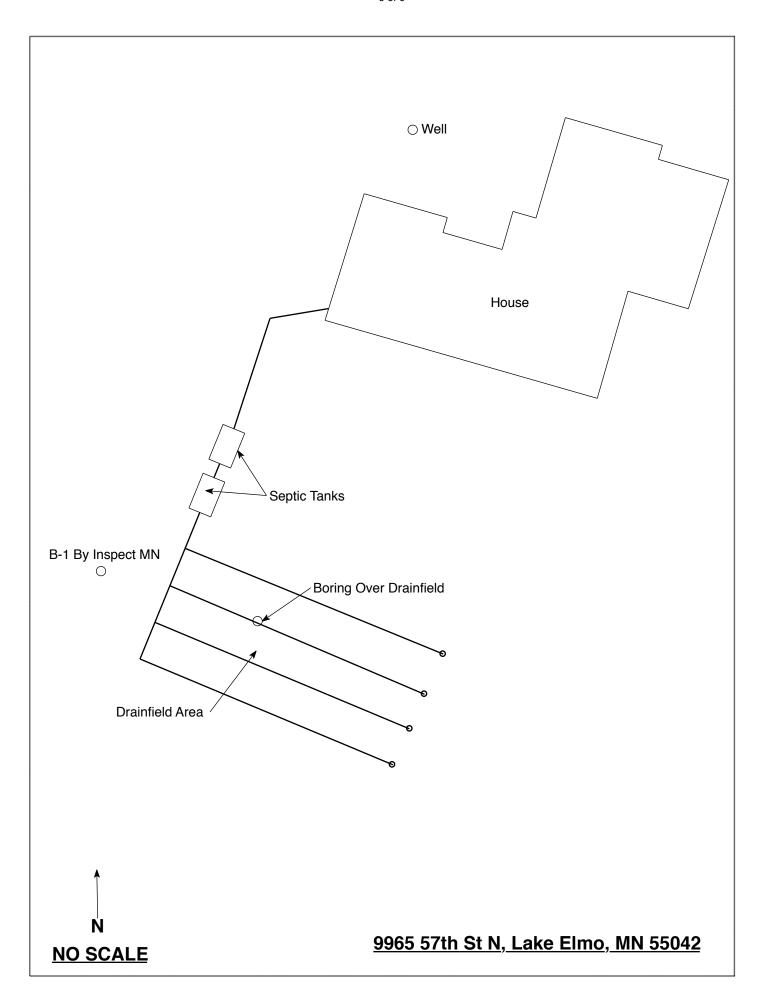
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 9, 2018	Time: 8:45 AM			
Property Address: 9965 57 th St N, Lake Elmo, MN				
Property Owner: Mongsher Ly	Phone: 651-497-0588			
	elless trench			
Are the tank maintenance covers accessible? \square Ye				
performed through the maintenance holes. Mainten				
the ground surface to facilitate access and proper m	aintenance of the system.			
Year house built: 1994 Year septic installed	: 1994 Tank size (gals.): 2-1000			
How long has seller owned the property? 2007	Number of residents in home? 7			
Number of bedrooms? 6 Are all floor	s drained by gravity? Y			
Garbage disposal? N W	hirlpool bath? Y			
More than one system (laundry, etc.)? N				
Does this property have any footing drain tiles connected to the septic system? N				
Are any buildings on this property such as garages or out-buildings connected to this system? N				
Are there any additional systems on this property serving other buildings? N				
Location of septic system on lot? South Side				
Location of water well on lot? North 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? N If yes, explain:				
When was the system last pumped? 2017	Name of pumper: Pinky's Sewer Service			
How often pumped in previous years? Every 2 Is system on a monitoring plan? N				
Have you received notices from any government agency concerning this system? N				
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the new owner? N				

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: Mongsher Ly's Signature On File Date: 8/9/2018



Log Of Soil Borings

Location of Project: 9965 57th St N, Lake Elmo, MN 55042					
Borings Made By: Inspect Minnesota		Date:		8/9/18	
Auger Used: Hand/Bucket		Classification System: USDA		USDA	
	Boring Number:	1		Boring Number:	
Surface Elevation Boring	of Same grou	ind surface as last ofield trench	Surface Elevation Boring	of	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered
0-22 22-31 31-38 38-80	10YR 4 10YR 3/4 10YR 3/4 M	oamy Fine Sand /3 Silt Loam 4 Loamy Sand edium Sand With e of Gravel			
80"	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
Same	Elevation Of Boring	g Relative To System		Elevation Of Boring	Relative To System
-43" Depth To Bottom Of Distribution Media				of Distribution Media	
≥37" Of Separation		[(Of Separation		
	End Of Boring At:	80"		End Of Boring At:	
	Redox Present At:	None		Redox Present At:	
Standing Water Present At: None			Water Present At:		
Standing Water Fresent At. None		Ctarianing			

Bottom Of Distribution Medium At: 43 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: 12/22/2018

Issued: 10/10/2017

es:

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expire
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



520 Lafayette Road North St. Paul, Minnesota 55155-4194 Charles & Thompson

Charles K Thompson, Supervisor Certification & Training Unit