Midwest Sewer Services

P.O. Box 10853 White Bear Lake, MN 55110

Brian Humpal

651-492-7550/Brian@Midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: January 8, 2020 **Time:** 9:30 AM **Owner:** Linda Hacker

Inspection Address: 18400 Ivywood Ave N, Forest Lake, MN 55025

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Linda Hacker, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1975) consists of a pre-cast septic tank, a pre-cast lift tank, and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils and because of the surfacing of effluent. This system is an imminent threat to public health and safety per MPCA rule 7080 Subp. 19a. because of the discharge of sewage to the ground surface.

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 the Washington County Department of Public Health & Environment (651-430-6655) to verify the County's position.

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

Christopher Uebe

Brian Humpal

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

nstructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) For local tracking purposes: equirements and attached forms – additional local requirements may also apply.					
Submit completed form to Local Unit of Government (LUG) and syste within 15 days	m owner				
System Status					
System status on date (mm/dd/yyyy):1/8/2020					
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)	Noncompliant – Notice of Noncompliance (See Upgrade Requirements on page 3)				
Reason(s) for noncompliance (check all applicable) □ Impact on Public Health (Compliance Component #1) – Immil □ Other Compliance Conditions (Compliance Component #3) – □ Tank Integrity (Compliance Component #2) – Failing to protect □ Other Compliance Conditions (Compliance Component #3) – □ Soil Separation (Compliance Component #4) – Failing to protect □ Operating permit/monitoring plan requirements (Compliance Component #4)	Imminent threat to public health and safety ot groundwater Failing to protect groundwater ect groundwater				
Property Information Parcel ID# or S	ec/Twp/Range:				
Property address: _ 18400 Ivywood Ave N, Forest Lake, MN 55025	Reason for inspection: Property Transfer				
Property owner: Linda Hacker or	Owner's phone:				
Owner's representative:	Representative phone:				
Local regulatory authority: Washington County	Regulatory authority phone: 651-430-6655				
Brief system description: A pre-cast septic tank, a pre-cast lift tank, and	a rock trench drainfield.				
Comments or recommendations:					
At the time of my inspection, there was a effluent surfacing onto the groun	d. This drainfield is at the end of its useful life.				
Certification					
I hereby certify that all the necessary information has been gathered to de determination of future system performance has been nor can be made du possible abuse of the system, inadequate maintenance, or future water us	e to unknown conditions during system construction,				
Inspector name: Brian Humpal/Christopher Uebe	Certification number: C5342/C9852				
Business name: Midwest Sewer Services	License number: L2896				
Inspector signature: Brian Humpal for Man	Phone number: 651-492-7550				
Necessary or Locally Required Attachments					
	Forms per local ordinance				
☐ Other information (list): Report Summary, Property Information, Di	•				
	,				

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Property address: 18400 Ivywood Ave N, Forest Lake, MN 55025

Inspector initials/Date: 1/8/2020 **24**

1.	lm	npact on Public Health – Cor	npliance componen	t #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) ☐ "Black soil" above soil dispersal system 			
		stem cause sewage backup into relling 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) 			
	Comments/Explanation: At the time of my inspection, there was a effluent surfacing onto		effluent surfacing on	o the ground. This drainfield is at the end of its useful life			
		, .,,	J				
2.	Tā	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 □ □ Probed tank(s) bottom □ Probed tank(s			
		epage pits meeting 7080.2550 may be		Examined construction recordsExamined Tank Integrity Form (Attach)			
		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 "yes" answer above indicates the system is Failing to Protect Groundwater.			 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 			
	Сс	nments/Explanation:					
		wered underwater camera into tank - I t pump and alarm were operational at					
	LII	t pump and alaim were operational at	the time of the inspec	uon.			
3.	Ot	ther Compliance Conditions	- Compliance com	ponent #3 of 5			
	a.	Maintenance hole covers are damaged	d, cracked, unsecured,	or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b.	Other issues (electrical hazards, etc.) to it *System is an imminent threat to put		sely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown			
		Explain:					
	C.	System is non-protective of ground wa *System is failing to protect ground Explain:		as determined by inspector ☐ Yes* ☒ No			
		•					

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Property address: 18400 Ivywood Ave N, Forest Lake, MN 55025

Inspector initials/Date: 1/8/2020

	Date of installation: 1975	Unkr	nown	Verification method(s):			
	Shoreland/Wellhead protection/Food Beverage Lodging?		⊠ No	Soil observation does not expire	Soil observation does not expire. Previous soil observations by two independent parties are sufficient		
	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 Two previous verifications (Not applicable (Holding tank)	Attach 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:			
	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 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/bedro	ock		
	separation distance from periodically saturated soil or bedrock.			C. System separation			
	A (6 11 1			D. Required compliance separation	n*		
	Any "no" answer above indicates the system is Failing to Protect Groundwater.			*May be reduced up to 15 percent if allowed by Local Ordinance.			
		_					
5.	Operating Permit and Nitrogen B	MP* – C			applicable		
	Is the system operated under an Operating Per			No If "yes", A below is requi			
	Is the system required to employ a Nitrogen BM			No If "yes", B below is requi	red		
	BMP=Best Management Practice(s) specifi	ied in the	system des	ign			
If the answer to both questions is "no", this section does not need to be completed.							
	Compliance criteria						
	a. Operating Permit number:						
	Have the Organity and Demait and windows at a	been met?		☐ Yes ☐ No			
	Have the Operating Permit requirements to	been met	!				

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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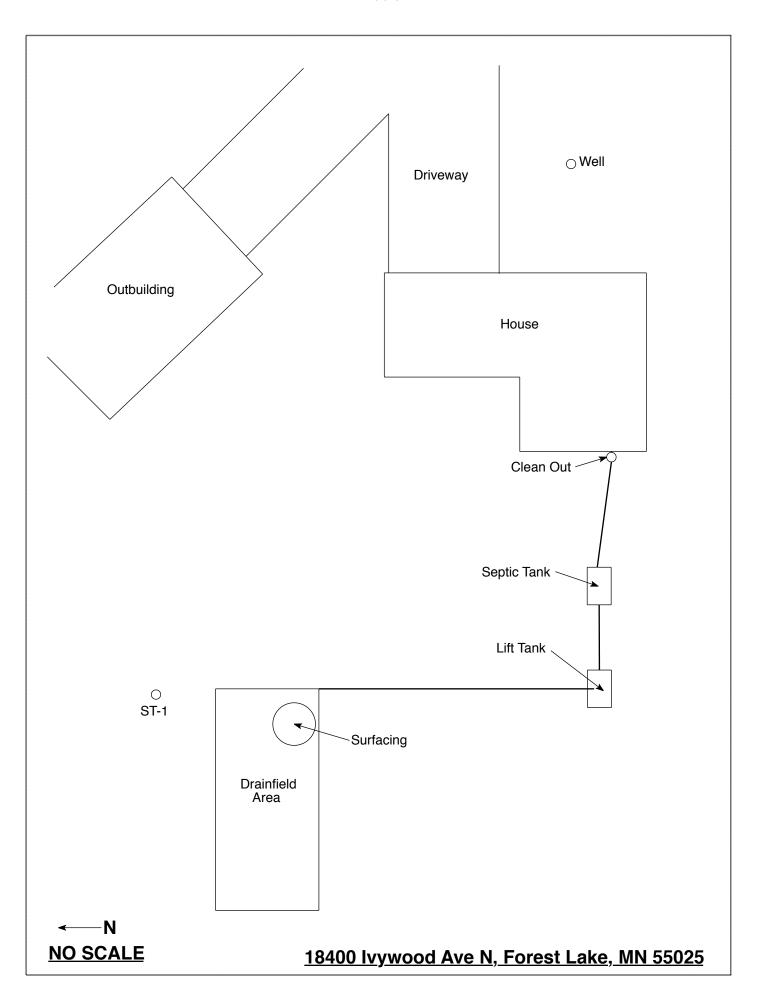
<u>Midwest Sewer Testing</u> Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: January 8, 2020	Time: 9:30AM				
Property Address: 18400 Ivywood Ave N, Forest Lake, MN	Zip: 55025				
Property Owner: Linda Hacker	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 no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.					
Year house built: 1975 Year septic installed: 1975	Γank size (gals.): 1200				
How long has seller owned the property? 1975 Number of re-					
Number of bedrooms? 3 Are all floors drained by gr					
Garbage disposal? N Whirlpool bath?	N				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected to the se	ptic 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? West Side					
Location of water well on lot? East 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? Y If yes, explain:Replaced pump.					
When was the system last pumped? 2019 Name of pum	per: Smilie's Sewer Service				
How often pumped in previous years? Every 3 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: Linda Hacker's Signature On File Date: 1/8/2020



Soil Observations Log

Locat	tion of Project:	18400 Ivywood Ave	- N. For	est Lak	e. MN 55025	5
		Midwest Sewer Ser		JUL LUIK	Date:	1/8/2020
	cation System:	USDA				, ,
	il Observation:	ST-1		Soil C	bservation:	
Surface Elevation of Observation	_	nd surface as last field trench	Surface Elevation of Observation			
Depth In Inches Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils Encountered	
0-13 13-20 20-33 33-48						
33" Depth	To End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
Same Elevation Of Observation Relative To System			Elevatio	n Of Observat	tion Relative To System	
-40" Depth To Bottom Of Distribution Media					Distribution Media	
=0" Of Separation			Of Sepa	ration		
End Of Soil	End Of Soil Observation At: 48"			Soil Oh	servation At:	
	edox Present At:	33"	2 51		x Present At:	
	ater Present At:	None	Standi		r Present At:	
Startaining Water Frederic Attr						

Bottom Of Distribution Medium At: 40 Inches		
Signature:	Color Ole	

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, 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

Midwest Sewer Services

License # L2896

License Expires: 12/22/2020

Issued: 11/26/2019

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert # Na

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2023

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852 4

Christopher R Uebe

3/4/2021

Designer, Inspector



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

Nick Haig, Supervisor Certification and Training Unit