Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Date: April 20, 2017 Time: 12:45 PM Owners: Greg Zeipelt

Inspection Address: 4940 Jamaca Ave N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at the City of Lake Elmo. This system consists of two pre-cast septic tanks and a rock trench drainfield (installed in 1985) and chamber trench drainfield (installed in 2002).

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of 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 verify the County's position.

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

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

System Status on date (mm/dd/yyyy): 4/20/2017						
System Status System status on date (mm/dd/yyyy): 4/20/2017 Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Reason(s) for noncompliance (check all applicable) mpact on Public Health (Compliance Component #1) – Imminent threat to public health and safety Tank Integrity (Compliance Component #2) – Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety Tank Integrity (Compliance Component #2) – Failing to protect groundwater Other Compliance Component #3) – Failing to protect groundwater Other Compliance Component #3) – Failing to protect groundwater Other Compliance Component #4) – Failing to protect groundwater Other Compliance Component #4) – Failing to protect groundwater Other Compliance Component #4) – Failing to protect groundwater Other Compliance Component #4) – Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant Property Information Parcel ID# or Sec/Twp/Range: Property address: 4940 Jamaca Ave N, Lake Elmo, MN 55042 Reason for inspection: Property Sale			PCA) For local tr	acking purposes:		
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	<u> </u>		e ner local ordinar	100		
			•			

Property address: 4940 Jamaca Ave N, Lake Elmo, MN 55042

Inspector initials/Date: 4/20/2017

1.	ln	npact on Public Health – Cor	npliance	component #1	of 5			
	Co	Compliance criteria:			Ve	Verification method(s):		
	System discharge sewage to the ground surface.		☐ Yes	⊠ No	\boxtimes	1 9 ,		
		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		
		rstem cause sewage backup into relling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test		
		ny "yes" answer above indicates n Imminent Threat to Public Heal			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation,			
		omments/Explanation: one of the above found.						
	INC	one of the above found.						
2.	Ta	ank Integrity — Compliance com	ponent	#2 of 5				
	Co	ompliance criteria:			Ve	erification 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)		
	CO	mpliant if allowed in local ordinance.				Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Examined empty (pumped) tanks(s)		
		/es, 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	omments/Explanation:						
	Lowered underwater camera into tanks - baffles and tank walls OK.							
3.	Ot	ther Compliance Conditions	. – Comr	oliance compone	ent #3	3 of 5		
	a.	-	-	-				
	 a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. Yes* No Unknown b. 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 							
		Explain:		-				
	C.	 System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater 						
		Explain:						

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Property address: 4940 Jamaca Ave N, Lake Elmo, MN 55042			Inspector initials/Date: 4/20	/2017 BH		
4.	Soil Separation – Compliance compor	nent #4 of 5				
	Date of installation: 1985/2002	Unknown	Verification method(s):	Soil observation does not expire. Previous soil		
	Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes □ No				
	Compliance criteria:		observations by two independent part unless site conditions have been alter			
	For systems built prior to April 1, 1996, and	☐ Yes ☐ No	requirements differ.	☐ Conducted soil observation(s) (Attach boring logs)		
	not located in Shoreland or Wellhead Protection Area or not serving a food,					
	beverage or lodging establishment:		 ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield) ☐ Unable to verify (See Comments/Explanation) ☐ Other (See Comments/Explanation) 			
	Drainfield has at least a two-foot vertical					
	separation distance from periodically saturated soil or bedrock.					
	Non-performance systems built April 1,	☐ Yes ⊠ No	Comments/Explanation:	Comments/Explanation:		
	1996, or later or for non-performance 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.*					
	Saturated Soil of Dedrock.					
	"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.	☐ Yes ☐ No	Indicate depths of elevations			
				See Attached		
	2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media	Boring Log(s)		
	Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock			
	separation distance from periodically saturated soil or bedrock.		C. System separation			
			D. Required compliance separation*			
	Any "no" answer above indicates to Failing to Protect Groundwater.	he system is		*May be reduced up to 15 percent if allowed by Local		
	railing to Frotect Groundwater.		Ordinance.			
5.	Operating Permit and Nitrogen B	MP* – Compliance	e component #5 of 5 🛮 🛛 Not appli c	cable		
	Is the system operated under an Operating Pen		· · · · · · · · · · · · · · · · · · ·			
	Is the system required to employ a Nitrogen BM	⊠ 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:					
	Have the Operating Permit requirements to	☐ Yes ☐ No				
	b. Is the required nitrogen BMP in place and	? 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.

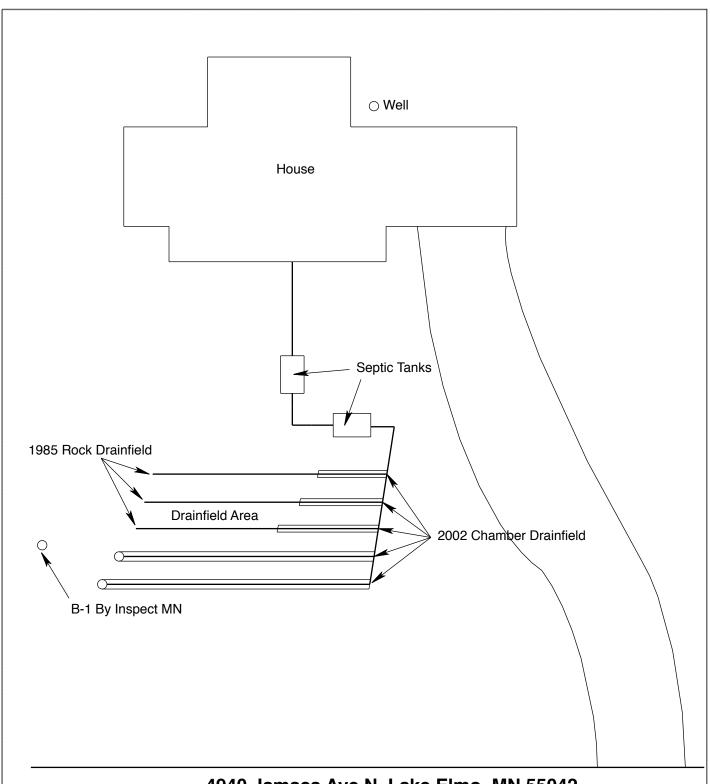
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

	r r r				
Date of Inspection: April 20, 2017	Time: 12:45 PM				
Property Address: 4940 Jamaca Ave N, Lake Elmo, MN	Zip: 55042				
Property Owner: Greg Zeipelt	Phone: 651-393-2569				
Tank(s) Tank(s)Material Soil Treatment Syst Septic 2 □Fiberglass □Rock trench □Aerobic □Plastic □Gravelless trench □Lift □Metal □Chamber trench □Holding □Concrete □Seepage bed □Other: □Block □Mound □Other □At-grade	em Other Alternative system				
Are the tank maintenance covers accessible? Yes No performed through the maintenance holes. Maintenance hole the ground surface to facilitate access and proper maintenance	covers should be made accessible to				
Year house built: 1985 Year septic installed: 1985/200	02 Tank size (gals.): 2-1500				
	of residents in home?				
Number of bedrooms? 5 Are all floors drained					
Garbage disposal? Whirlpool by	oath?				
More than one system (laundry, etc.)?					
Does this property have any footing drain tiles connected to the septic 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? East Side					
Location of water well on lot? West 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:					
7 1 1	pumper: Meyers Sewer Service				
How often pumped in previous years? Is sy	stem on a monitoring plan?				
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 the new owner?					
I hereby certify that the above information is correct to the best of my know considered "non-compliant/failing" per MPCA rules, that the inspector me local government unit within 15 days of the date of inspection completion this report, that I/we are ultimately responsible for payment of all fees for	ust by law submit a copy of this report to the n. I also agree that unless otherwise noted in				

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



4940 Jamaca Ave N, Lake Elmo, MN 55042

NO SCALE

Log Of Soil Borings

Loca	Location of Project: 4940 Jamaca Ave N, Lake Elmo, MN, 55042					
		Inspect Minnesota		4/20/17		
	Auger Used:	Hand/Bucket	Classification Systen		USDA	
F	Boring Number:	1		Boring Number:		
Surface Same gr		and surface as last offield trench	Surface Elevation of Boring	of		
Depth In Inches			Depth In Inches	Soils Er	<u>icountered</u>	
32" Depth To End Of Boring Or Redox			1	Depth To End Of Bo	oring Or Redox	
None Elevation Of Boring Relative To System			Elevation Of Boring Relative To System			
-39" Depth To Bottom Of Distribution Media			Depth To Bottom Of Distribution Media			
=0" Of Separation			Of Separation			
,	End Of Boring At-	56"		End Of Paring At-		
	End Of Boring At: Redox Present At:	32"		End Of Boring At: Redox Present At:		
Standing Water Present At: None			Standing Water Present At:			
Standing Water Fresent At. None			Standing	water Frescrit At.		

Bottom Of Distribution Medium At: 39 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