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: February 23, 2016 **Time:** 12:45 PM **Owner:** Roger & Kim Zimmerman **Inspection Address:** 9861 51st St N, Lake Elmo, MN **Site Conditions:** 4" Snow 4" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the Owner, Kim Zimmerman, and have reviewed the original design/permit records on file at the City of Lake Elmo. This system consists of two precast septic tanks 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 lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. This system <u>is not</u> an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A).

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

	sults based on Minnesota Pollution Control Agency (Norms – additional local requirements may also apply.	For local tracking purposes:		
Submit completed form to within 15 days	o Local Unit of Government (LUG) and system ov	/ner		
System Status				
System status on da	ate (mm/dd/yyyy):			
(Valid for 3 years	•	oncompliant – Notice of Noncompliance ee Upgrade Requirements on page 3)		
☐ Impact on Publ ☐ Other Complia ☐ Tank Integrity (☐ Other Complia	compliance (check all applicable) lic Health (Compliance Component #1) – Imminent to the Conditions (Compliance Component #3) – Imminent to Compliance Component #2) – Failing to protect grouple Conditions (Compliance Component #3) – Failing to protect grouple (Compliance Component #4)	nent threat to public health and safety undwater g to protect groundwater roundwater		
		, ,		
Droporty Informatic	20			
Property Information				
· · ·	-	Reason for inspection: Property Sale Owner's phone: 612-810-8109		
or	Crain Zimmerman	When 3 phone		
Owner's representative:	Re	Representative phone:		
Local regulatory authority:	Washington County Re	Regulatory authority phone: 651-40-4052		
Brief system description:	Two pre-cast septic tanks and a rock trench drainfi	eld.		
Comments or recommenda	itions:			
Certification				
determination of future syst	necessary information has been gathered to determine tem performance has been nor can be made due to d tem, inadequate maintenance, or future water usage.			
Inspector name: Brian H	umpal Co	ertification number:L5342		
Business name: Inspect	Minnesota, Midwest Soil Testing	License number: L2896		
Inspector signature:	Brian Humpal	Phone number: 651-492-7550		
Necessary or Locall	y Required Attachments			
⊠ Soil boring logs	· <u>-</u>	ms per local ordinance		
	-	•		
•				

1.	ln	npact on Public Health – Cor	mpliance compone	nt #1 of 5		
	C	ompliance criteria:		Verification method(s):		
		stem discharge sewage to the ound 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 		
		vstem cause sewage backup into velling or establishment.	☐ Yes ⊠ No	☐ System requires "emergency" pumping ☐ Performed dye test		
		ny "yes" answer above indicates n Imminent Threat to Public Heal	ve indicates the system is Unable to verify (See Comments/Explanation)			
		omments/Explanation: one of the above found.				
	INC	one of the above found.				
2.	Ta	ank Integrity – Compliance con	nponent #2 of 5			
	Co	ompliance criteria:		Verification method(s):		
		vstem consists of a seepage pit,	☐ Yes ⊠ No	□ Probed tank(s) bottom		
		esspool, drywell, or leaching pit.		☐ Examined Construction records		
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
		ewage tank(s) leak below their	☐ Yes ⊠ No	Examined empty (pumped) tanks(s)		
		esigned operating depth. yes, which sewage tank(s) leaks:		☐ Probed outside tank(s) for "black soil"		
		· · · · · · · · · · · · · · · · · · ·	atos tho	☐ Unable to verify (See Comments/Explanation)		
		ny "yes" answer above indica /stem is Failing to Protect Gr		☐ Other methods not listed (See Comments/Explanation)		
	Co	omments/Explanation:				
	Lo	wered underwater camera into tanks -	baffles and tank wa	lls OK.		
3.	O:	ther Compliance Conditions	5 – Compliance co	mponent #3 of 5		
	a.	Maintenance hole covers are damage	d, cracked, unsecure	d, or appear to structurally unsound. $\ \square$ Yes* $\ \square$ No $\ \square$ Unknown		
	b.	Other issues (electrical hazards, etc.) to i *System is an imminent threat to pu	-	ersely impact public health or safety.		
		Explain:				
	C.	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☐ No *System is failing to protect groundwater				
		Explain:				

Property address: 9861 51st St N, Lake Elmo, MN 55042

Inspector initials/Date: 2/23/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • 3 off9TY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

1.	Soil Separation – Compliance compor	nent #4 of	f 5				
	Date of installation: 2001	Unkno	own	V	erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?				Soil observation does not expire. Previous soil observations by two independent parties are sufficient,		
	Compliance criteria:			uı	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:	ems built prior to April 1, 1996, and ed in Shoreland or Wellhead on Area or not serving a food, e or lodging establishment: d has at least a two-foot vertical on distance from periodically			requirements differ. Conducted soil observation(s) (Attach boring logs) 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/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	C	omments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	_In	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)			<u>A.</u>	Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Periodically saturated soil/bedrock 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.							
5.	Operating Permit and Nitrogen B	MP* – Co	omplianc	e com	ponent #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 BMP?						
	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 been met?				☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and properly functioning?			☐ Yes ☐ No			
	Any "no" answer indicates Noncompliance.						

Property address: 9861 51st St N, Lake Elmo, MN 55042

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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Inspector initials/Date: 2/23/2016

Inspect Minnesota & Midwest Soil Testing

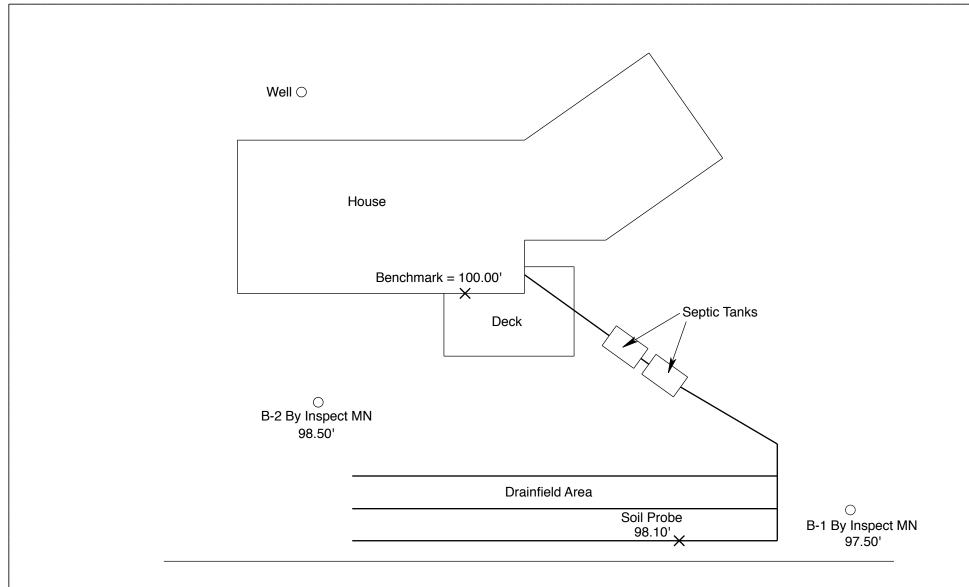
Subsurface Sewage Treatment System Owner/Property Information

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

Property Address: 9861 51st St N, Lake Elmo, MN	Date of Inspection: February 23, 2016	Time: 12:45 PM				
Tank(s) Tank(s)Material Soil Treatment System	Property Address: 9861 51st St N, Lake Elmo, MN	N Zip: 55042				
Septic 2	Property Owner: Roger & Kim Zimmerman	Phone: 612-810-8109				
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: 2001 Year septic installed: 2001 Tank size (gals.): 2-1000 How long has seller owned the property? 2001 Number of residents in home? 2 Number of bedrooms? 3 Are all floors drained by gravity? Y Garbage disposal? Y Whirlpool 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 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? Y If yes, explain: 2003, system froze and backed up. Pipe between tank and drainfield replaced. When was the system last pumped? 2014 Name of pumper: Meyers 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		Alternative system elless trench				
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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: Kim Zimmerman's Signature On File Date: 2/23/2016



Drainage Swale

Log Of Soil Borings

Locat	Location of Project: 9861 51st St N, Lake Elmo, MN 55042					
	ings Made By:	Inspect Minnesota	Date: 2/23/16		2/23/16	
	Auger Used:	Hand/Bucket	Class	sification System:	USDA	
Во	oring Number:	1		Boring Number:	2	
Surface		97.50'	Surface	2		
Elevation of		: 100.00' patio door	Elevation of		98.50'	
Boring	l th	reshold	Boring			
Depth In	Soils Er	ncountered	Depth In	Soils Encountered		
Inches 0-8	10VP 2/2	Sandy Loam	Inches 0-10	10VP 4/2 Loam	(Fill/Disturbed) With	
8-35		Loamy Sand	0-10		Redox	
35-41	10YR 3/4	Sandy Loam	10-24	10YR 3/4	4 Sandy Loam	
41-47		andy Loam With	24-35		andy Loam With	
47-55		7.5YR 5/8 Redox 3 Loam With	35-42		5/8 Redox andy Loam With	
	10YR 6/1 &	7.5YR 5/8 Redox	55 ,2	10YR 5/3 L	oam Layers And	
55-67		andy Loam With		7.5YR 5/8 &	10YR 6/2 Redox	
	10YR 6/2 &	7.5YR 5/8 Redox				
95.52' Elevation To Bottom Of Distribution Media		95.52'	Elevation To Bottom	Of Distribution Media		
-94.08' Depth To Redox Or End Of Boring		-96.50'	Depth To Redox			
=1.44'/17" Of Separation		=0'/0"	Of Separation			
End Of Boring At: 67"				End Of Paring At-	42"	
				End Of Boring At: Redox Present At:	24"/96.50'	
Redox Present At: 41"/94.08' Standing Water Present At: None			Standing Water Present At: None			
Standing water Present At: None			Standing	water Hesent At.	INUITE	

Bottom Of Distribution Medium At: 31" Or Elevation 95.52' At Soil Probe

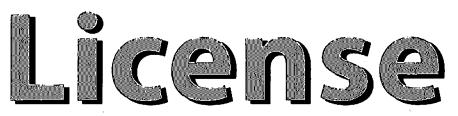
DISCLAIMER

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



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Christopher R. Uebe	Designer (Certified)	03/04/2018
Christopher R. Uebe	Inspector (Certified)	03/04/2018



St. Paul, Minnesota 55155-4194

Steven Giddings Manager Environmental Business Assistance Section