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: 993 Warner Ave S, Mahtomedi, MN **Site Conditions:** 14" Snow 0" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2006, 2009, 2013, and 2016, which were on file at Washington County. This older system (installed in 1994) consists of a pre-cast two-compartment septic tank and a rock trench drainfield.

Predicated on my inspection of the system 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

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 (MPC requirements and attached forms – additional local requirements may also apply.	A) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owne within 15 days	
System Status	
System status on date (mm/dd/yyyy):2/26/2019	
	compliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent thre Other Compliance Conditions (Compliance Component #3) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect ground Other Compliance Conditions (Compliance Component #3) – Failing to Soil Separation (Compliance Component #4) – Failing to protect ground Operating permit/monitoring plan requirements (Compliance Component	threat to public health and safety water protect groundwater ndwater
Property Information Parcel ID# or Sec/Twp/F	dange:
Property address: 993 Warner Ave S, Mahtomedi, MN 55115 Reason	on for inspection: Property Transfer
Property address: 993 Warner Ave S, Mahtomedi, MN 55115 Reason Property owner: Zachary Padellford Owner	-
Property address: 993 Warner Ave S, Mahtomedi, MN 55115 Reason Property owner: Zachary Padellford Owner or	on for inspection: Property Transfer r's phone: 763-203-4933
Property address: _993 Warner Ave S, Mahtomedi, MN 55115 Reason Property owner: _Zachary Padellford Owner Or Owner's representative: Representative: Washington County Regulatory authority:	on for inspection: Property Transfer r's phone: 763-203-4933 sentative phone: 651-430-6655
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Property address: 993 Warner Ave S, Mahtomedi, MN 55115

Inspector initials/Date: _2/26/2019**24**()/

1.	Impact on Public Health – Compliance component #1 of 5						
	Compliance 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		
	System discharge sewage to drain tile or surface waters.		☐ Yes	⊠ No	 ☑ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation) ☐ "Plack soil" above soil dispossed system 		
		rstem cause sewage backup into reling or establishment.	☐ Yes	⊠ No	 □ "Black soil" above soil dispersal system □ 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)		
	Comments/Explanation: None of the above found.						
2.	Ta	ank Integrity — Compliance com	nponent #	‡2 of 5			
	C	ompliance criteria:			Verification 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 mpliant if allowed in local ordinance.			Examined Tank Integrity Form (Attach)Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	☐ Examined empty (pumped) tanks(s)		
		yes, 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) 		
3.	Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls OK. Other Compliance Conditions — Compliance component #3 of 5						
	a.	-					
					·		
		Explain:					
	C.	System is non-protective of ground wa *System is failing to protect ground		er conditions as det	ermined by inspector ☐ Yes* ☒ No		
	Explain:						

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	4 01 10			
Property address:993 Warner Ave S, Mahtomedi,	MN 55115	Inspector initials/Date:	2/26/2019 B# (M	
4. Soil Separation — Compliance compon	ent #4 of 5			
Date of installation:	☐ Unknown ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No	Verification method(s): Soil observation does not expire. Previous soil observations by two independent parties are sufficient unless site conditions have been altered or local requirements differ. ☑ Conducted soil observation(s) (Attach boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield) ☐ Unable to verify (See Comments/Explanation) ☑ Other (See Comments/Explanation) Comments/Explanation: Reviewed previous compliance inspection from 2013 Reviewed previous compliance inspection from 2009		
separation distance from periodically saturated soil or bedrock.* "Experimental", "Other", or "Performance"	☐ Yes ☐ No	Reviewed previous compliance inspection from 2006. Reviewed design and permit records. 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) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		A. Bottom of distribution media B. Periodically saturated soil/bedroc C. System separation	See Attached Boring Log(s)	
Any "no" answer above indicates the Failing to Protect Groundwater. 5. Operating Permit and Nitrogen BA	D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local Ordinance. c component #5 of 5 Not applicable			
Is the system operated under an Operating Pern Is the system required to employ a Nitrogen BMI BMP=Best Management Practice(s) specific If the answer to both questions is "no", a Compliance criteria	nit? Yes P? Yes Ped in the system desig	No If "yes", A below is require No If "yes", B below is require	ed	

Any "no" answer indicates Noncompliance.

Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?

a. Operating Permit number:

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.

☐ Yes ☐ No

☐ Yes ☐ No

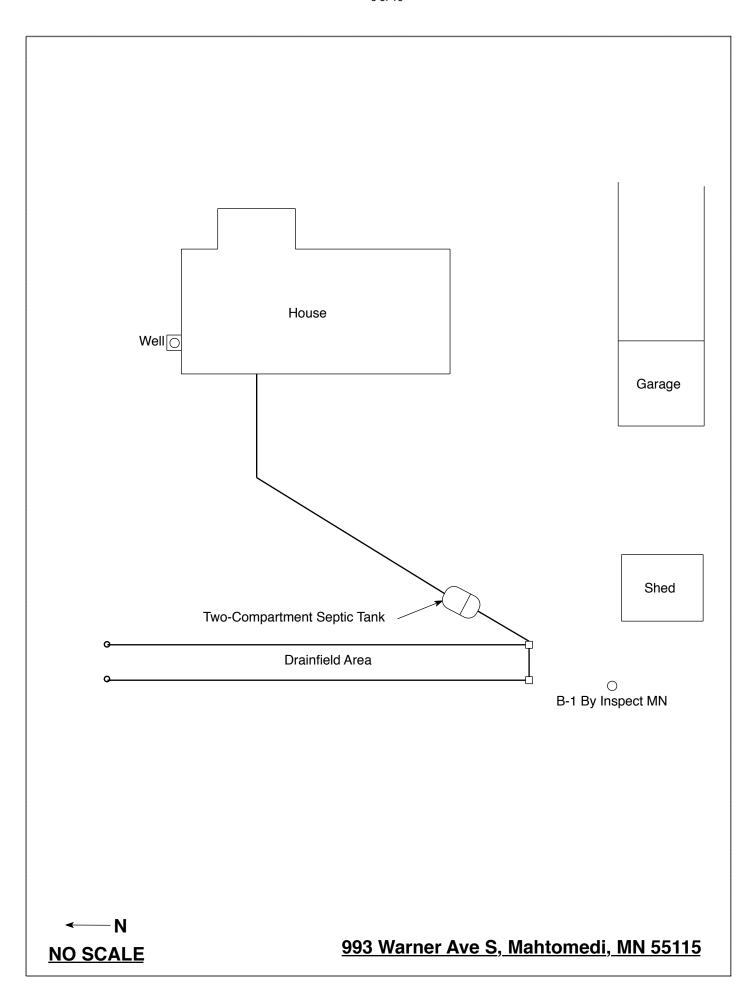
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection

Data of Inspection, February 26, 2010				
Date of Inspection: February 26, 2019	Time: 11:00 AM			
Property Address: 993 Warner Ave S, Mahtomedi, MN	Zip: 55115			
Property Owner: Zachary Padellford	Phone: 763-203-4933			
Tank(s) Tank(s)Material Soil Treatment System Septic 2 Comp 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			
Are the tank maintenance covers accessible? ⊠ Yes □ No *				
performed through the maintenance holes. Maintenance hole co				
the ground surface to facilitate access and proper maintenance of	of the system.			
Year house built: 1956 Year septic installed: 1994	Tank size (gals.): 1500 2-Comp			
	residents in home?			
Number of bedrooms? 3 Are all floors drained by				
Garbage disposal? N Whirlpool bat	h? 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-buildi	ngs 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				
	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:				
	umper: Smilies			
	em on a monitoring plan? N			
Have you received notices from any government agency concer	ning this system? N			
Is your property located in a shoreland management area? Y				
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 knowle considered "non-compliant/failing" per MPCA rules, that the inspector must local government unit within 15 days of the date of inspection completion.	by law submit a copy of this report to the			

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.		1
Owner/Occupant:	Date:	



Log Of Soil Borings

Location of Project: 993 Warner Ave S, Mahtomedi, MN 55115					
Borings Made By: Inspect Minnesota				Date:	2/26/19
Auger Used: Hand/Bucket			Class	ification System:	USDA
	Boring Number:	1		Boring Number:	
Surface Elevation Boring	of Same grou	und surface as last ofield trench	Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered
0-10 10-32 32-64 64-80	7.5YR 4/4 Me 10YR 5/4 10YR 5/4 M	/2 Sandy Loam Edium To Fine Sand Medium Sand edium Sand With Camellae Banding			
80"	Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox
Same	Elevation Of Boring	g Relative To System		Elevation Of Boring	Relative To System
-38"		Of Distribution Media			f Distribution Media
≥42"	Of Separation			Of Separation	
	End Of Daving Att	90"		End Of Daving At 1	
	End Of Boring At:			End Of Boring At:	
Charadira -	Redox Present At:		Charadia a	Redox Present At:	
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At:	38 Inches

Log Of Soil Borings

Location of Project: 993 Warner Ave S, Mahtomedi, MN 55115					
Borings Made By: Inspect Minnesota				Date:	7/15/09
Auger Used: Hand/Bucket			Class	ification System:	USDA
Bo	ring Number:	1		Boring Number:	
Surface Elevation of Boring		und surface at end of ainfield trench	Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered
56-66 66-90	7.5YR 3/ YR 4/4 Fine Sar 5YR 4/6 10YR 5/4	2.5/2 Loam 4 Loamy Sand Id With Lamellae Bands Loamy Sand Fine Sand With Lameliae Bands			
90" De	pth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
Same Ele	vation Of Borin	g Relative To System		Elevation Of Boring	Relative To System
	pth To Bottom (Separation	Of System		Depth To Bottom O Of Separation	of System
Fn	d Of Boring At:	90"		End Of Boring At:	
	dox Present At:	None		Redox Present At:	
	ter Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 46 Inches

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Log Of Soil Borings

Loc	ation of Project:	993 Warner Ave S, M	ahtomedi,	MN 55115	
Borings Made By: Inspect Minnesota				Date:	5/24/06
Auger Used: Hand/Bucket			Classi	fication System:	USDA
	Boring Number:	1		Boring Number:	
Surface Elevation	of Camo groups	surface as drainfield	Surface Elevation		
Boring	Same ground	surface as drainifield	Boring	01	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	ncountered
0-12 12-36 36-66 66-84	7.5YR 4 10YF 10YR 5	andy Loam (Topsoil) /4 Fine Sand 1-5/4 Sand 44 Sand With Lamellae Bands			
84" [Depth To End Of E	oring Or Redox		Depth To End Of Bo	oring Or Redox
		g Relative To System			Relative To System
-38" Depth To Bottom Of System ≥46" Of Separation			Depth To Bottom C Of Separation	of System	
	End Of Boring At:	84"		End Of Boring At:	
	Redox Present At:	None		Redox Present At:	
Standing 1	Water Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 38 Inches

8 of 10

998 WARNER R	PAD	BORING LOG			
TE 5-4-94			вон	REHOLE DIAMETER 4"	-3' HOND AWER
PTH HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
TOP SOIL	TOP SOIL	TOP SOIL -	+ TOP SOM +		+
BROWN, FINE TO MEDIUM SAND		BROWN, FINE TO INSDIUM SAND	BROWN, FINE TO MEDIUM SAND		+
=	BROWN, MEDIUM	-			-
<u> </u>	<u></u>	<u> </u>	BROWN, FIND	_	
BROWN, FINE	BROWN, FINE	BROWN, FINE	‡ ‡		Ŧ
HANN STAININ BROWN, MED SAND	GANA G-	<u>+</u> -	PROUN, MEDIUM - TO COMPAGE - SAND	<u>:</u>	<u>+</u> , .
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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: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	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