#### **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

Inspection Address: 157 Ideal Ave N, Mahtomedi, MN Site Conditions: 8" Snow 3" Frost

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this septic system and have reviewed the history of the system with the Owner, Ken Lohr. This very old system consists of two cesspools. Additional cesspool(s) and/or a drainfield may exist beyond the second cesspool.

It should be noted that my inspection indicated an abnormally high liquid level in the cesspools. This is an indicator that the system is at the end of its useful life.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B) because of the cesspools and 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



St. Paul, MN 55155-4194

# **Compliance Inspection Form**

# Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:		
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days			
System Status			
System status on date (mm/dd/yyyy):12/21/2016			
	npliant – Notice of Noncompliance rade Requirements on page 3)		
Reason(s) for noncompliance (check all applicable)			
<ul> <li>Impact on Public Health (Compliance Component #1) – Imminent threat to</li> <li>Other Compliance Conditions (Compliance Component #3) – Imminent threat to</li> <li>Impact on Public Health (Compliance Component #2) – Failing to protect groundwate</li> <li>Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate</li> <li>Soil Separation (Compliance Component #4) – Failing to protect groundwate</li> <li>Operating permit/monitoring plan requirements (Compliance Component #4)</li> </ul>	reat to public health and safety ter otect groundwater ater		
Property Information Parcel ID# or Sec/Twp/Range	20.		
• • • • • • • • • • • • • • • • • • • •	ge: or inspection:     Requested By City		
· · · · · · · · · · · · · · · · · · ·	phone: 651-428-8498		
or			
Owner's representative: Represer	ntative phone:		
	Regulatory authority phone: 651-430-4052		
Brief system description: Two cesspools with possible additional cesspool(s) and/or	a drainfield.		
Comments or recommendations: It should be noted that my inspection indicated an abnormally high liquid level in the ce is at the end of its useful life.	esspools. This is an indicator that the system		
Certification			
I hereby certify that all the necessary information has been gathered to determine the of determination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.			
Inspector name: Brian Humpal Certification	ion number: L5342		
Business name: Inspect Minnesota, Midwest Soil Testing Licer	nse number: L2896		
Inspector signature: Brian Humpal Pho	one number: 651-492-7550		
Necessary or Locally Required Attachments			
	local ordinance		
☐ Other information (list): Report Summary, Property Information, Disclaimer, Lic			

1.	Impact on Public Health – Compliance component #1 of 5						
1.	Syy gro	property on Public Health – Corpording of the cound surface.  In the cound surface.  In the cound surface.  In the cound surface waters.  In the cound surface waters water waters.  In the cound surface waters water water waters.  In the cound surface water w	☐ Yes☐ Yes☐ Yes☐ Yes☐ He sys	⊠ No  ⊠ No  ⊠ No	Verification method(s):  Searched for surface oon Searched for seeping in Excessive ponding in soon Homeowner testimony Black soil above soil of System requires "emeror Performed dye test Unable to verify (See Coordington)	utlet n yard/backup in ho oil system/D-boxes (See Comments/Expl dispersal system gency" pumping omments/Explanation,	; lanation) )
2.	Ta	ank Integrity — Compliance con	nponent	#2 of 5			
	Co	ompliance criteria:			Verification method(s)	:	
		stem consists of a seepage pit,	⊠ Yes	□No	Probed tank(s) bottom		
		sspool, drywell, or leaching pit.			☐ Examined construction		
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			<ul><li>☐ Examined Tank Integrit</li><li>☐ Observed liquid level b</li></ul>	•	th
		wage tank(s) leak below their	☐ Yes	□No	☐ Examined empty (pum		•••
		signed operating depth.  ves, which sewage tank(s) leaks:	All Tank		Probed outside tank(s)		
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.			<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other methods not listed (See Comments/Explanation)</li> </ul>			
3.	Lo It s sy	omments/Explanation: wered underwater camera into tanks - should be noted that my inspection ind stem is at the end of its useful life.	licated an	abnormall	high liquid level in the cesspools. T	⊺his is an indicator t	that the
	a.	Maintenance hole covers are damage	d, cracked	, unsecure	, or appear to structurally unsound.	☐ Yes* ☒ No ☐	] Unknown
	b.	Other issues (electrical hazards, etc.) to i *System is an imminent threat to pu		-		☐ Yes* ☒ No ☐	] Unknown
		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:						

Property address: 157 Ideal Ave N, Mahtomedi, MN 55115

Inspector initials/Date: 12/21/2016

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

	Data of installations	<b>.</b>			101 41 44 44 4		
	Date of installation: Shoreland/Wellhead protection/Food Beverage	_ ⊠ Unkr —		Ve	rification method(s):		
	Lodging?	Yes	☐ No		il observation does not expire. F servations by two independent p		
	Compliance criteria:	ı		unl	Itered or local		
	For systems built prior to April 1, 1996, and	☐ Yes	☐ No	•	uirements differ.		
	not located in Shoreland or Wellhead Protection Area or not serving a food,				Conducted soil observation(s) Two previous verifications (Atta		
	beverage or lodging establishment:				Not applicable (Holding tank(s), r		
	Drainfield has at least a two-foot vertical				Unable to verify (See Comments	*	
	separation distance from periodically saturated soil or bedrock.				Other (See Comments/Explanation	n)	
	Non-performance systems built April 1,	☐ Yes	⊠ No	Co	mments/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.*						
	"= · · · · " "						
	"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	☐ Yes	☐ No	Inc	licate depths of elevations		
	or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector	08 Rules (7080.		Α.	Bottom of distribution media	See Attached Boring Log(s)	
	License required)			-		3 3(3/	
	Drainfield meets the designed vertical			В.	Periodically saturated soil/bedrock		
	separation distance from periodically saturated soil or bedrock.			<u>C</u> .	System separation		
				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.			_ Oı	dinance.		
5.	Operating Permit and Nitrogen B	M <b>D*</b> _ c	Complianc	e comn	onent #5 of 5 🔀 <b>Not ap</b> r	dicable	
	1 3		<u> </u>			nicable	
	Is the system operated under an Operating Permit?						
	Is the system required to employ a Nitrogen BMP?						
			-	_			
	If the answer to both questions is "no",	tnis sec	tion does	s not ne	ееа то ре сотрієтеа.		
	Compliance criteria						
	a. Operating Permit number:				☐ Yes ☐ No		
	Have the Operating Permit requirements been met?						
	b. Is the required nitrogen BMP in place and	nronerly	functioning	?	☐ Yes ☐ No		

Property address: 157 Ideal Ave N, Mahtomedi, MN 55115

Inspector initials/Date: 12/21/2016

**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, 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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800-657-3864

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651-296-6300 •

#### **Inspect Minnesota & Midwest Soil Testing**

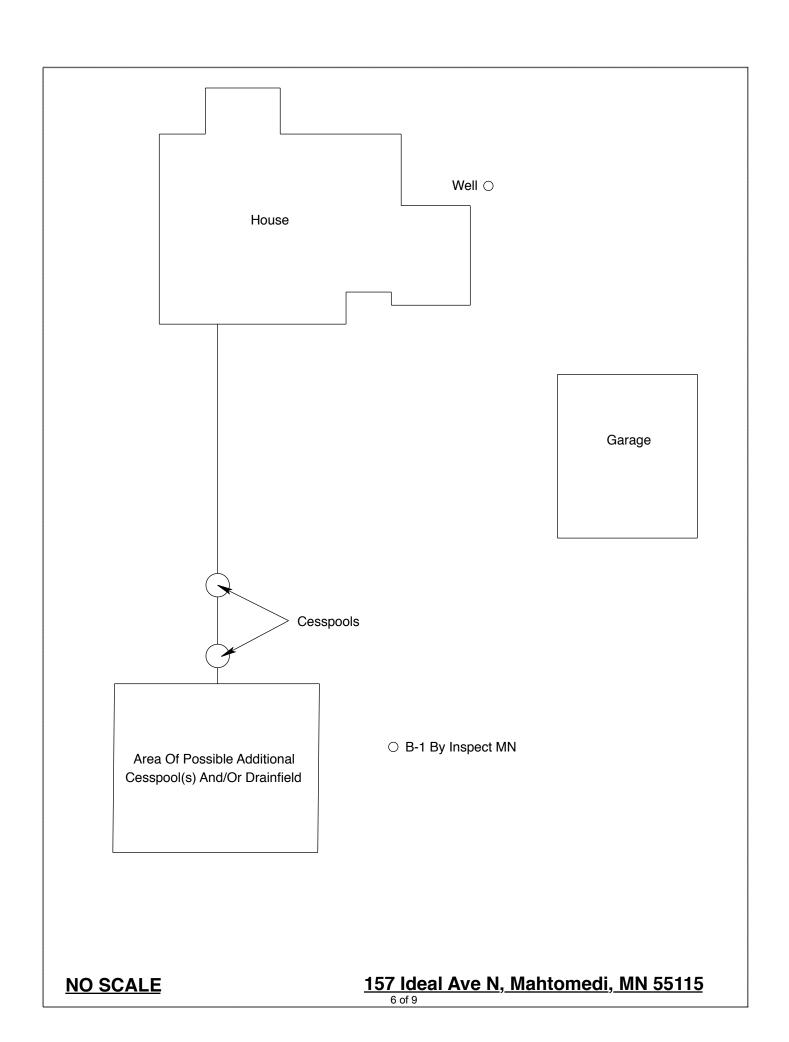
#### Subsurface Sewage Treatment System Owner/Property Information

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

Property Address: 157 Ideal Ave N, Mahtomedi, MN	Date of Inspection: December 21, 2016	Time: 1:15 PM				
Tank(s)	Property Address: 157 Ideal Ave N, Mahtomedi, MN Zip: 55115					
Septic	Property Owner: Ken Lohr	Phone: 651-428-8498				
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: 1944   Year septic installed: Unknown   Tank size (gals.): Unknown   How long has seller owned the property? 1990   Number of residents in home? 2   Number of bedrooms? 2   Are all floors drained by gravity? Lower Pumped   Garbage disposal? N   Whirlpool bath? N   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   Location of septic system on lot? West Side   Location of water well 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? N If yes, explain:  When was the system last pumped? 2015   Name of pumper: Smilies 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	Septic       □Fiberglass       □Rock         □Aerobic       □Plastic       □Grav         □Lift       □Metal       □Chan         □Holding       □Concrete       □Seep         □Other:       □Block       □Mout         □Other       □At-gr	Alternative system elless trench				
How long has seller owned the property? 1990   Number of residents in home? 2   Number of bedrooms? 2   Are all floors drained by gravity? Lower Pumped   Garbage disposal? N   Whirlpool bath? N   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? 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? N If yes, explain:  When was the system last pumped? 2015   Name of pumper: Smilies 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	performed through the maintenance holes. Maintenance hole covers should be made accessible to					
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How often pumped in previous years? Every 2	When was the system last pumped? 2015	Name of pumper: Smilies Sewer Service				
Have you received notices from any government agency concerning this system? N Is your property located in a shoreland management area? N	How often pumped in previous years? Every 2					
Is your property located in a shoreland management area? N	Have you received notices from any government agency concerning this system? N					
Do you have any additional information that should be given to the new owner? 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: Ken Lohr's Signature On File Date: 12/21/2016



#### **Log Of Soil Borings**

Location of Project: 157 Ideal Ave N, Mahtomedi, MN 55115						
Borings Made By: Inspect Minnesota				Date:	12/21/16	
Auger Used: Hand/Bucket		Classification System:		USDA		
[	Boring Number:	1		Boring Number:		
Surface Same ground surface as last		Surface Elevation Boring	of			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils En	countered	
0-6 6-25 25-46 46-65	10YR 4, 10YR 5, 10YR 4/4	/3 Fine Sand /3 Fine Sand /4 Fine Sand Fine Sand With 6/2, & 5YR 4/6 Redox				
46" [	" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox	
Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System		
-54" Depth To Bottom Of Distribution Media				f Distribution Media		
=0" Of Separation			Of Separation			
	End Of Boring At:	65"		End Of Boring At:		
Redox Present At: 46"				Redox Present At:		
	Water Present At:	None		Water Present At:		

Bottom Of Distribution Medium At:	≥54 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 1<sup>st</sup> through April 1<sup>st</sup>) 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



# 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