#### **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

**Date:** June 12, 2019 **Time:** 8:45 AM **Owner:** Adam Bruening

Inspection Address: 13350 Lynch Rd N, Hugo, MN 55038

#### REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Adam Bruening, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1987) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Predicated on my inspection of the system, my review of the history of the system with the owner, and my review of the original design/permit records, it is my opinion that this system presently meets 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

	,				
<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):6/12/2019					
•	pliant – Notice of Noncompliance ade Requirements on page 3)				
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent threat to Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater tter				
Property Information Parcel ID# or Sec/Twp/Rang	e:				
	r inspection: Property Transfer				
· · ·	wner's phone: 651-303-9032				
Or Owner's representative:	rative phone:				
	ative phone:				
Brief system description: A pre-cast septic tank and a rock trench drainfield.					
Comments or recommendations:					
Contification					
Certification	ampliance statue of this system. No				
I hereby certify that all the necessary information has been gathered to determine the c 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/Christopher Uebe Certification	on number: <u>C5342/C9852</u>				
	se number: L2896				
Inspector signature: Brian Humpak fffirm the Photo	ne number:651-492-7550				
Necessary or Locally Required Attachments					
Soil boring logs	ocal ordinance				
☐ Other information (list): Report Summary, Property Information, Disclaimer, License					

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Property address: <u>13350 Lynch Rd N, Hugo, MN 55038</u>

Inspector initials/Date: \_6/12/2019 **BA** 

1.	Impact on Public Health – Cor	mpliance componen	t #1 of 5			
	Compliance criteria:		Verification method(s):			
	System discharge sewage to the ground surface.	☐ Yes ⊠ No	<ul> <li>✓ Searched for surface outlet</li> <li>✓ Searched for seeping in yard/backup in home</li> </ul>			
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	<ul> <li>☑ Excessive ponding in soil system/D-boxes</li> <li>☑ Homeowner testimony (See Comments/Explanation)</li> <li>☐ "Black soil" above soil dispersal system</li> </ul>			
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	System requires "emergency" pumping  Performed dye test			
	Any "yes" answer above indicates an 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.	Tank Integrity – Compliance con	nponent #2 of 5				
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	<ul><li>☑ Probed tank(s) bottom</li><li>☑ Examined construction records</li></ul>			
	Seepage pits meeting 7080.2550 may be		☐ Examined Construction records ☐ Examined Tank Integrity Form (Attach)			
	compliant if allowed in local ordinance.	☐ Yes ⊠ No	<ul><li>Observed liquid level below operating depth</li></ul>			
	Sewage tank(s) leak below their designed operating depth.	☐ fes ☑ No	Examined empty (pumped) tanks(s)			
	If yes, which sewage tank(s) leaks:		<ul><li>☐ Probed outside tank(s) for "black soil"</li><li>☐ Unable to verify (See Comments/Explanation)</li></ul>			
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.		☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:	OV.				
	Lowered underwater camera into tank -	baπles and tank walls	OK.			
3.	Other Compliance Conditions	5 – Compliance com	iponent #3 of 5			
	a. Maintenance hole covers are damage	d, cracked, unsecured,	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	<u>-</u>	sely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown  y			
	Explain:					
	c. System is non-protective of ground wa *System is failing to protect ground		as determined by inspector			
	Explain:					

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Pro	perty address: <u>13350 Lynch Rd N, Hugo, MN (</u>	55038		Inspector initials/Date:	6/12/2019 <b>BH</b> ()	
4.	Soil Separation — Compliance compor	nent #4 o	f 5			
	Date of installation: 1987 Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:		☐ Unknown  Verification method(s):  ☐ Yes ☐ No  Soil observation does not expire. observations by two independent unless site conditions have been requirements differ.		nt parties are sufficient,	
	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:  Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		□ No	<ul> <li>☐ Conducted soil observation(s) (Attach boring logs)</li> <li>☐ Two previous verifications (Attach boring logs)</li> <li>☐ Not applicable (Holding tank(s), no drainfield)</li> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☐ Other (See Comments/Explanation)</li> </ul>		
-	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: Reviewed design and permit rec	ords.	
	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 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.	Yes	- -	A. Bottom of distribution media  B. Periodically saturated soil/bedroc  C. System separation	See Attached Boring Log(s)	
5.	Any "no" answer above indicates the system is Failing to Protect Groundwater.  Operating Permit and Nitrogen BMP* – Compliance of			<ul> <li>D. Required compliance separation</li> <li>*May be reduced up to 15 percelor</li> <li>Ordinance.</li> </ul> The propert #5 of 5 Not a	nt if allowed by Local	
5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable  Is the system operated under an Operating Permit? Yes No If "yes", A below is required  Is the system required to employ a Nitrogen BMP? Yes 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					ed	
	Operating Permit number:  Have the Operating Permit requirements beginning.	peen met?		☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and		unctioning?	☐ Yes ☐ No		
	A (for all an access in all and a a Name and					

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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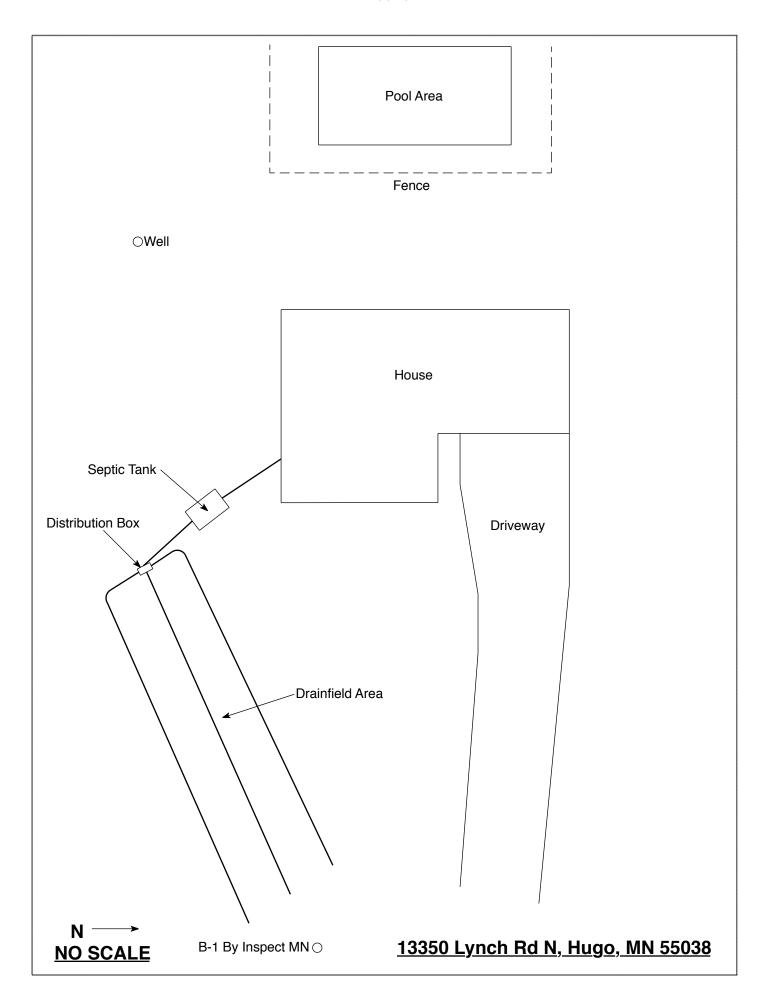
# Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: June 12, 2019	Time: 8:45 AM			
Property Address: 13350 Lynch Rd N, Hugo, MN	Zip: 55038			
Property Owner: Adam Bruening	Phone: 651-303-9032			
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 1       Fiberglass       Scoil Treatment System         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 *If performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of	vers should be made accessible to			
Year house built: 1987 Year septic installed: 1987	Tank size (gals.): 1250			
	esidents in home? 3			
Number of bedrooms? 3 Are all floors drained by §	1			
Garbage disposal? N Whirlpool bath	? N			
More than one system (laundry, etc.)? N				
Does this property have any footing drain tiles connected to the s	eptic 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? Southeast Side				
Location of water well on lot? Southwest Side Is the	e 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? 2014 Name of pur	nper: Dan's Septic Service			
How often pumped in previous years? Every 3				
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: Adam Bruening's Signature On File Date: 6/12/2019



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

Location of Project: 13350 Lynch Rd N, May Twp, MN 55038					
Borings Made By: Inspect Minnesota				6/12/19	
Auger Used: Hand/Bucket		Classification System: USDA		USDA	
Boring Number: 1			Boring Number:		
Surface Elevation Boring	of Same grou	and surface as last ofield trench	Surface Elevation ( Boring	of	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered	
0-13 13-22 22-35 35-68 68-73 73-76	10YR 3 10YR 4 10YR 3/4 10YR 3/4 S Lamell 10YR 3/4 S	/3 Silt Loam /4 Silt Loam /4 Silt Loam 4 Loamy Sand andy Loam With lae Banding andy Loam With 1 10YR 6/2 Redox			
73"	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
	Elevation Of Boring	g Relative To System	Elevation Of Boring Relative To System		Relative To System
-42" Depth To Bottom Of Distribution Media				of Distribution Media	
=31" Of Separation				Of Separation	
End Of Boring At: 76"				End Of Boring At:	
		73"		Redox Present At:	
	anding Water Present At: None			Water Present At:	

Bottom Of Distribution Medium At: 42 Inches

## LOG OF SOIL BORINGS

, 801	RING NO.	BOF	RING NO. 2	BOR	NG NO. 3	BORI	NG NO. 4
DEPTH IN PRET	BESCRIPTION	DEPTH IN PERT	BOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	Brown Kinz	0	CAKK Brown	0	DAKE Brown	C	Brown Rive
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	come		Brown Kiril - meg.		SILTY CLAY		KILL SALDY
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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 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

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