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

P.O. Box 10853 White Bear Lake, MN 55110 Brian Humpal 651-492-7550/Brian@Midwestsoiltesting.com

MPCA Licensed Advanced Inspector

#### SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: February 21, 2018 **Time:** 10:00 AM Owner: Janet Knoll

**Inspection Address:** 10255 Juno Ave N, Grant, MN **Site Conditions:** 7" Snow 16" Frost

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Janet Knoll, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1988) consists of a precast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried under the brick pathway. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance of the septic tank.

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.



## **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	Local Unit of Government (LUG) and system ow	/ner		
System Status				
System status on da	te (mm/dd/yyyy): <u>2/21/2018</u>			
	from report date, unless shorter time (Se	oncompliant – Notice of Noncompliance ee Upgrade Requirements on page 3)		
☐ Impact on Publi☐ Other Complian☐ Tank Integrity ((☐ Other Complian☐ Soil Separation	compliance (check all applicable) c Health (Compliance Component #1) – Imminent to the Conditions (Compliance Component #3) – Immined Compliance Component #2) – Failing to protect group to the Compliance Component #3) – Failing (Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Component #4) – Failing to protect group to the Compliance Component #4) – Failing to protect group to the Component #4) – Failing to protect gro	nent threat to public health and safety undwater g to protect groundwater coundwater		
Property Informatio	D 14D# 0 #T	(D		
Property owner: Janet Kn	_	Reason for inspection: Property Transfer Owner's phone: 651-226-5807		
or	ON ON	wher s phone		
Owner's representative:	Re	epresentative phone:		
Local regulatory authority:		Regulatory authority phone: 651-430-4052		
Brief system description:	Pre-cast septic tank and a rock trench drainfield.			
Comments or recommendat	tions:			
	criteria, it should be noted that the septic tank manho cover to the ground surface to facilitate easier acces			
Certification				
determination of future syste	ecessary information has been gathered to determir em performance has been nor can be made due to ເ m, inadequate maintenance, or future water usage.			
Inspector name: Brian Hu	ımpal Ce	ertification number: L5342		
Business name: Inspect N	Minnesota, Midwest Soil Testing	License number: L2896		
Inspector signature:	Brian Humpal	Phone number: _ 651-492-7550		
Necessary or Locally	y Required Attachments			
⊠ Soil boring logs	<u> </u>	ns per local ordinance		
	-	•		

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Property address: \_ 10255 Juno Ave N, Grant, MN 55082

Inspector initials/Date: 2/21/2018

1.	Impact on Public Health	n – Compliance component #	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 dra or surface waters.	in tile 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 in dwelling or establishment.	to Yes 🛭 No	System requires "emergency" pumping  Performed dye test				
	Any "yes" answer above in an Imminent Threat to Publ		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
	Comments/Explanation: None of the above found.						
2.	Tank Integrity – Complian	oo component #2 of 5					
<u> </u>	<u> </u>	ice component #2 or 5					
	Compliance criteria:		Verification method(s):				
	System consists of a seepage pi cesspool, drywell, or leaching pit		<ul><li>☑ Probed tank(s) bottom</li><li>☑ Examined construction records</li></ul>				
	Seepage pits meeting 7080.2550 ma	y be	☐ Examined Tank Integrity Form (Attach)				
	compliant if allowed in local ordinance Sewage tank(s) leak below their	e. ☐ Yes ⊠ No	Observed liquid level below operating depth				
	designed operating depth.		Examined empty (pumped) tanks(s)				
	If yes, which sewage tank(s) leak		<ul><li>☐ Probed outside tank(s) for "black soil"</li><li>☐ Unable to verify (See Comments/Explanation)</li></ul>				
	Any "yes" answer above system is Failing to Prote		☑ Other methods not listed (See Comments/Explanation)				
	Comments/Explanation:						
	Lowered underwater camera into						
			ptic tank manhole cover is buried under the brick pathway. I te easier access and proper maintenance of the septic tank.				
3.	Other Compliance Cond	<b>itions</b> – Compliance compo	onent #3 of 5				
	a. Maintenance hole covers are o	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 gre *System is failing to protect	ound water for other conditions as groundwater	s determined by inspector ☐ Yes* ☒ No				
	Explain:						

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Property address: 10255 Juno Ave N, Grant, MN 55082

Inspector initials/Date: 2/21/2018

4. 9	Soil Separation — Compliance compor	nent #4 c	of 5				
ı	Date of installation: 1988	☐ Unkr	nown	٧	/erification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	⊠ No	S	oil observation does not expire. Pr		
	Compliance criteria:			и	bservations by two independent pa nless site conditions have been alt		
I	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:	⊠ Yes	□ No	_	<ul> <li>Equirements differ.</li> <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>		
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.						
:	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 record	ls.	
,	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes	□No	lı	ndicate depths of elevations	T	
	systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			_A	. Bottom of distribution media	See Attached Boring Log(s)	
I	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			С	Periodically saturated soil/bedrock     System separation  Page independent of the separation of		
	Any "no" answer above indicates t Failing to Protect Groundwater.	*	<ul> <li>Required compliance separation*</li> <li>May be reduced up to 15 percent if</li> <li>Ordinance.</li> </ul>	f allowed by Local			
	Operating Permit and Nitrogen B	<b>MP*</b> – C	complianc	_		licable	
ls	the system operated under an Operating Per	mit?	☐ Yes	⊠ No	If "yes", A below is required		
ls	Is the system required to employ a Nitrogen BMP? ☐ Yes ☐ No.				If "yes", B below is required		
	BMP=Best Management Practice(s) specif	ïed in the	system de	esign			
lf	the answer to both questions is "no",	this sec	tion doe	s not i	need to be completed.		
С	ompliance criteria						
	a. Operating Permit number:     Have the Operating Permit requirements been met?				☐ Yes ☐ No		
_1	b. Is the required nitrogen BMP in place and properly functioning?				☐ Yes ☐ No		
A	ny "no" answer indicates Noncom	pliance	•				

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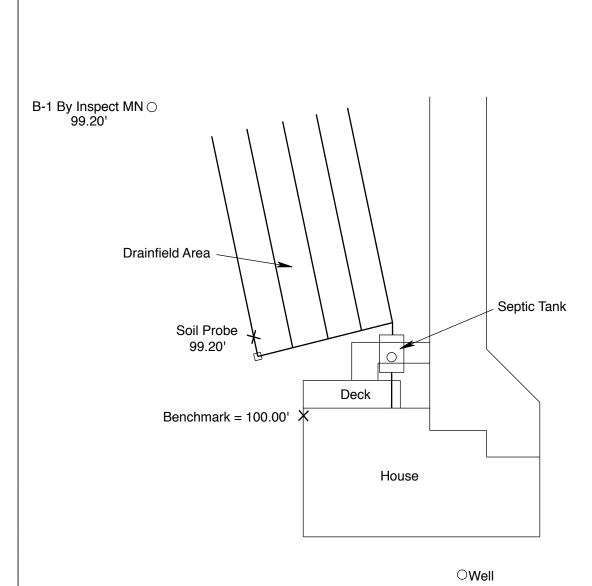
# Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: February 21, 2018	Time: 10:00 AM					
Property Address: 10255 Juno Ave N, Grant, MN Zip: 55082						
Property Address: 10255 Juno Ave N, Grant, MN Property Owner: Janet Knoll	Phone: 651-226-5807					
1 3	tment System Other					
Septic 1 Fiberglass Soli Tec						
	lless trench					
	ber trench Cesspool system					
	ge bed Other system					
Other: Block Moun						
Other At-gra						
Are the tank maintenance covers accessible? $\square$ Yes						
performed through the maintenance holes. Maintena	ance hole covers should be made accessible to					
the ground surface to facilitate access and proper ma	intenance of the system.					
Year house built: 1988 Year septic installed:	<b>(C</b> )					
	Number of residents in home? 1-4					
	s drained by gravity? Yes					
Garbage disposal? N W	hirlpool bath? Y					
More than one system (laundry, etc.)? N						
Does this property have any footing drain tiles conne	ected 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? Northwest Side						
Location of water well on lot? East 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? 2017 Name of pumper: Pinky's Sewer Service						
How often pumped in previous years? Every 2						
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						
-						

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: Janet Knoll's Signature On File Date: 2/21/2018



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

Location of Project: 10255 Juno Ave N, Grant, MN 55082					
В	orings Made By:	Inspect Minnesota		Date:	2/21/18
Auger Used: Post Hole Digger			Class	ification System:	USDA
	Boring Number:	1		Boring Number:	
Surface		99.20'	Surface		
Elevation	of Benchmark =	= 100.00' bottom of	Elevation	of	
Boring	siding at north	west corner of house	Boring		
Depth In	Soils Er	ncountered	Depth In	Soils E	ncountered
Inches	-		Inches	<u> </u>	10001100100
0-5 5-20		Medium Sand m Coarse Sand With			
		ck & Cobbles			
20-64		m Coarse Sand With			
	≥50% Rc	ck & Cobbles			
		ragments Not Bedrock			
	Per washington Cou	nty Official, Chris LeClair			
		2421			
		n Of Distribution Media			Of Distribution Media
-93.87' Depth To Redox Or End Of Boring =2.16'/26" Of Separation				Depth To Redox Of Separation	
2.13/23	<u> </u>			2. 20pa.acion	
End Of Boring At: 64"				End Of Boring At:	
Redox Present At: None			Redox Present At:		
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At: 38" Or Elevation 96.03' At Soil Probe

# LOG OF SOLE BORINGS

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BOR	ING NO. /	BOR		DEPTH		DEPTH	9011
DEPTH	8011	DEPTH	SOIL DESCRIPTION	IN FEET	SOIL DESCRIPTION	FEET	DESCRIPTION
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## LOG OF SOIL BORINGS

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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: 12/22/2018

Issued: 10/10/2017

es:

## Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

#### Designated Certified Individual(s):

Cert #	Name	<b>Certification Expire</b>
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



520 Lafayette Road North St. Paul, Minnesota 55155-4194 Charles & Thompson

Charles K Thompson, Supervisor Certification & Training Unit