#### **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:** 10435 Hadley Cir N, Grant, MN **Site Conditions:** 5" Snow 11" Frost

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the Owner, Jody Comfort, and have reviewed the original design/permit records on file at Washington County. This older system (installed in 1988) consists of a pre-cast septic tank 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. Washington County issued sewage treatment permit #4676 for the installation of this septic system.

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

	7, ,
Instructions: 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): 2/7/2017	_
	ompliant – Notice of Noncompliance pgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)	
☐ Impact on Public Health (Compliance Component #1) – Imminent threa	t to public health and safety
Other Compliance Conditions (Compliance Component #3) – Imminent	
☐ Tank Integrity (Compliance Component #2) – Failing to protect groundy	
<ul> <li>☐ Other Compliance Conditions (Compliance Component #3) – Failing to possible Soil Separation (Compliance Component #4) – Failing to protect ground</li> </ul>	_
☐ Operating permit/monitoring plan requirements (Compliance Componen	
Property owner: Jody Comfort Owner  or	ange:  n for inspection: S phone:  651-323-7278  Sentative phone:
· · · · · · · · · · · · · · · · · · ·	tory authority phone: 651-430-4052
Brief system description: A pre-cast septic tank and a rock trench drainfield.	
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gathered to determine the 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 Certific	ation number: L5342
	ense number: <u>L2896</u>
Inspector signature: Buan Humpal P	hone number:651-492-7550
Necessary or Locally Required Attachments	
	er local ordinance
☐ Other information (list): Report Summary, Property Information, Disclaimer,	License

1.	Impact on Public Health - Compliance component #1 of 5					
1	Impact on Public Health – Con  Compliance criteria:  System discharge sewage to the ground surface.  System discharge sewage to drain tile or surface waters.  System cause sewage backup into dwelling or establishment.  Any "yes" answer above indicates an Imminent Threat to Public Health Comments/Explanation:  None of the above found.	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ the system is	Verification method(s):  Searched for surface outlet Searched for seeping in yard/backup in home Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system System requires "emergency" pumping Performed dye test Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)			
2.	Tank Integrity – Compliance cor	nponent #2 of 5				
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.  Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.	☐ Yes ⊠ No	<ul><li>☑ Probed tank(s) bottom</li><li>☑ Examined construction records</li><li>☐ Examined Tank Integrity Form (Attach)</li></ul>			
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	<ul><li>☐ Observed liquid level below operating depth</li><li>☐ Examined empty (pumped) tanks(s)</li><li>☐ Probed outside tank(s) for "black soil"</li></ul>			
	If yes, which sewage tank(s) leaks:		Unable to verify (See Comments/Explanation)			
	Any "yes" answer above indica system is Failing to Protect Gr		○ Other methods not listed (See Comments/Explanation)			
3.	Comments/Explanation: Lowered underwater camera into tanks  Other Compliance Conditions					
	a. Maintenance hole covers are damage	d, cracked, unsecured,	, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b. Other issues (electrical hazards, etc.) to a *System is an imminent threat to pu		sely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown			
	Explain:					
	c. System is non-protective of ground wa *System is failing to protect ground Explain:		s as determined by inspector ☐ Yes* ☒ No			

Property address: \_ 10435 Hadley Cir N, Grant, MN 55110

Inspector initials/Date: 2/7/2017

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Date of installation: 1988	Unkr	nown	Ve	erification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	ob	oil observation does not expire. Foservations by two independent p	parties are sufficient
Compliance criteria:	pliance criteria:			lless site conditions have been a	ltered 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:	☐ Yes	□ No		quirements differ.  Conducted soil observation(s)  Two previous verifications (Atta Not applicable (Holding tank(s),	ach boring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				Unable to verify (See Comments 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	Co	omments/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	□No	ln	dicate depths of elevations	<b>i</b>
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)
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			-	Periodically saturated soil/bedrock  System separation	
saturated soil of bedrock.			D	Required compliance separation*	
Any "no" answer above indicates to Failing to Protect Groundwater.	he syst	em is	*N	lay be reduced up to 15 percent ordinance.	if allowed by Local
Operating Permit and Nitrogen B	MD* C	`omplianc	o comr	ponent #5 of 5 🛮 🗵 <b>Not ap</b> j	alicable
Is the system operated under an Operating Pen		∵ Yes			
				•	
Is the system required to employ a Nitrogen BMP?   Yes No If "yes", B below is required					
BMP=Best Management Practice(s) specific		-	•		
If the answer to both questions is "no",	this sec	tion does	not n	eed to be completed.	
Compliance criteria					
a. Operating Permit number:				☐ Yes ☐ No	
Have the Operating Permit requirements to	peen met	?			
	b. Is the required nitrogen BMP in place and properly functioning?				

Property address: 10435 Hadley Cir N, Grant, MN 55110

Inspector initials/Date: 2/7/2017

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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#### WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit Noffcila

Inspection of Installation Must Be Made By the Building Offical Before Any Portion of System is Covered Contact Planning Department, 779-5444, 24 Hour Notice Required

Owner JOHN FAHIBEDG
Owner 10HN PAULESOG  Property Description Cross 19 Aug Ar Core 15 16 Paul Trace East GRANT
Property Address 10435 Halley Create 16 Pro # B3140 - 2650
Property Address #19455 #1946   Charles #1950   Property Address #19455   Property Address #1945
Use of Building: Home Flow Rate: 481 April 730 Guyy, Percolation Rate: 17 mpi
Septic Tank 1600 Gal. Liquid Capacity Lift Station (if needed) 1000 Gal.
Type of System: THINK AND DRAINFIELD
Absorption Trench — Square Feet Lineal Feet Width Width
Death of Rock Below Lines Inches, Above Lines Inches
Depth of Trench From Existing Grade — Minimum 26 Inches, Maximum 47 Inches
Recommended Number of Lines 56 A3 (Note: Maximum Length of Individual Line is 100 Feet.)
Minimum Spacing of LinesFt. Center to Center
Special Conditions System TO GO IN AWA APAROVES AND
MACATED OF APPRICACE SITE DIH.
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within six (6) months.  INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY.  Approved:  Date 3// ARR
Approved: ///// Soning Administrator/Author/zed Agent
Comments SCHLOMKA INSTAULE - 5@ 80' W/18"ZO"
PANY REAL KELAUSE IN CHANGE IT CHEST
Installation Approved Hack Kahle Inspector Date 5/16/88
F of 10

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

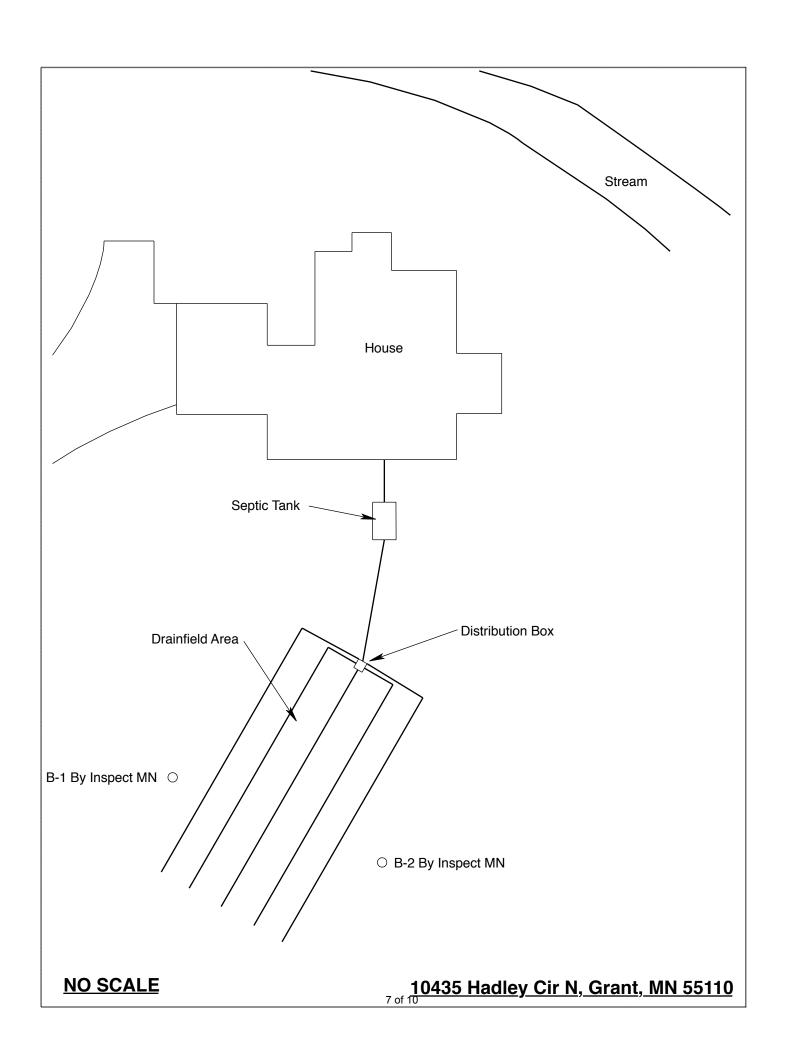
#### Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: February 7, 2017	Time: 9:45 AM				
Property Address: 10435 Hadley Cir N, Grant, MN Zip: 55110					
Property Owner: Jody Comfort	Phone: 651-323-7278				
1 7	atment System Other				
	Alternative system elless trench				
Are the tank maintenance covers accessible? $\boxtimes$ Yes $\square$ No *If no, proper maintenance must be 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: 1988 Year septic installed	1988 Tank size (gals.): 1500				
How long has seller owned the property? 1995	Number of residents in home? 5				
Number of bedrooms? 4 Are all floor	s drained by gravity? Lower Pumped				
	hirlpool 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					
Location of water well on lot? North 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? 2014	Name of pumper: Smilies 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? 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 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: Jody Comfort's Signature On File Date: 2/7/2017



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

Location of Project: 10435 Hadley Cir N, Grant, MN 55110					
Borings Made By: Inspect Minnesota			Date:		<del>' ' '</del>
Auger Used: Hand/Bucket		Classification System:		USDA	
Boring Number: 1			Boring Number:	2	
Surface Elevation of Boring	Elevation of Same ground surface as last		Surface Elevation of Boring Same ground surface drainfield trenc		
Depth In Inches	Depth In Soils Encountered		Depth In Inches	Soils Encountered	
0-5 5-15 15-28 28-44 44-50 50-66	Soils Encountered  O-5 7.5YR 2.5/2 Medium Sand 7.5YR 4/4 Medium Sand 7.5YR 3/4 Loamy Sand 7.5YR 3/4 Loam 7.5YR 3/4 Loam 7.5YR 4/4 Loam		0-11 11-33 33-39 39-58	7.5YR 2.5/2 Medium Sand 7.5YR 4/3 Medium Sand 7.5YR 3/4 Loam With 7.5YR 5/8 Redox 7.5YR 3/4 Medium Sand With Few 7.5YR 5/8 & 5YR 4/6 Redox	
50" Depth To End Of Boring Or Redox		39"	Depth To End Of Boring Or Redox		
Same Elevation Of Boring Relative To System		Same			
-42" Depth To Bottom Of Distribution Media =8" Of Separation		-42" Depth To Bottom Of Distribution Media =0" Of Separation			
Er	nd Of Boring At:	66"		End Of Boring At:	58"
	dox Present At:	50"		Redox Present At:	
Standing Wa	Standing Water Present At: None			Water Present At:	None

Bottom Of Distribution Medium At: 42 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

Prevention and Solid Waste Management Section