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

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

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

Inspection Address: 14230 202nd St N, Scandia, MN 55047

### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This older system (installed in 1991) consists of a pre-cast septic tank and a rock trench drainfield.

Predicated on my inspection of the system and my review of the original design/permit 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.

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.  Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
Surkan Status	
System Status	
System status on date (mm/dd/yyyy): 7/19/2016	
<del>_</del> · · —	compliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)	
<ul> <li>Impact on Public Health (Compliance Component #1) – Imminent three</li> <li>Other Compliance Conditions (Compliance Component #3) – Imminent</li> <li>Tank Integrity (Compliance Component #2) – Failing to protect ground</li> <li>Other Compliance Conditions (Compliance Component #3) – Failing to</li> <li>Soil Separation (Compliance Component #4) – Failing to protect ground</li> <li>Operating permit/monitoring plan requirements (Compliance Component)</li> </ul>	t threat to public health and safety water protect groundwater ndwater
Property Information Parcel ID# or Sec/Twp/R	Pange.
· ·	on for inspection: Property Sale
• •	r's phone: 651-433-3547
or	
•	esentative phone:
Local regulatory authority: Washington County Regul  Brief system description: Pre-cast septic tank and rock trench drainfield.	atory authority phone: 651-430-4052
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gathered to determine to 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	cation number: _L5342
	icense number: L2896
Inspector signature: Brian Humpal	Phone number: 651-492-7550
Necessary or Locally Required Attachments	
	per local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer,	

1.	lm	Impact on Public Health – Compliance component #1 of 5							
	Compliance criteria:				Verification method(s):				
		stem discharge sewage to the bund surface.	☐ Yes ⊠ N		Searched for surface outlet Searched for seeping in yard/backup in home	e			
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠ N		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explana "Black soil" above soil dispersal system	ation)			
		stem cause sewage backup into velling or establishment.	☐ Yes ⊠ N		System requires "emergency" pumping Performed dye test				
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
		omments/Explanation: one of the above found.							
2.	Ta	ank Integrity – Compliance con	nponent #2 of	5					
	Co	Compliance criteria:			erification method(s):				
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes ⊠ N		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				
		wage tank(s) leak below their signed operating depth.	☐ Yes		Examined empty (pumped) tanks(s)				
	If yes, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil"				
		ny "yes" answer above indica stem is Failing to Protect Gr			<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>				
3.	Lo	omments/Explanation: wered underwater camera into the tan			3 of 5				
	a.	Maintenance hole covers are damage	d, cracked, unse	cured, or appear t	to structurally unsound. 🛭 Yes* 🖾 No 🔲 Uı	nknown			
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Uni *System is an imminent threat to public health and safety								
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: \_ 14230 202nd St N, Scandia, MN 55047

Inspector initials/Date: 7/19/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 •3 of **TO**Y 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

4.	Soil Separation — Compliance compor	nent #4 c	of 5				
_	Date of installation: 1991  Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Unkr	nown	Soil ol		s not expire. Pre	
	Compliance criteria:				observations by two independent parties are sufficient, unless site conditions have been altered 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	require ⊠ Co □ Tw	requirements differ.  ☐ Conducted soil observation(s) (A ☐ Two previous verifications (Attack ☐ Not applicable (Holding tank(s), no		ttach boring logs) h boring logs)
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			☐ Ur	Unable to verify (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		nents/Explanati wed design and	ion: d permit records	<b>5</b> .
	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	☐ Yes	□No		ate depths o		See Attached Boring Log(s)
	License required)						
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				iodically saturatestem separation	ed soil/bedrock	
				D. Red	quired compliand	ce separation*	
	Any "no" answer above indicates to Failing to Protect Groundwater.	he syst	em is		pe reduced up lance.	to 15 percent if	allowed by Local
5.	Operating Permit and Nitrogen B	<b>MP*</b> – C	Compliance	e compone	ent #5 of 5	⊠ Not appl	icable
	Is the system operated under an Operating Per	mit?	☐ Yes	⊠ No If	"yes", A belo	w 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 sec	tion does	s not need	l to be comp	leted.	
	Compliance criteria						
	a. Operating Permit number:				Vac 🗆 Na		
	Have the Operating Permit requirements I	peen met	?		Yes  No	<u> </u>	
	b. Is the required nitrogen BMP in place and	?	Yes 🗌 No	<u>—</u>			
	Any "no" answer indicates Noncom	pliance	-				

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Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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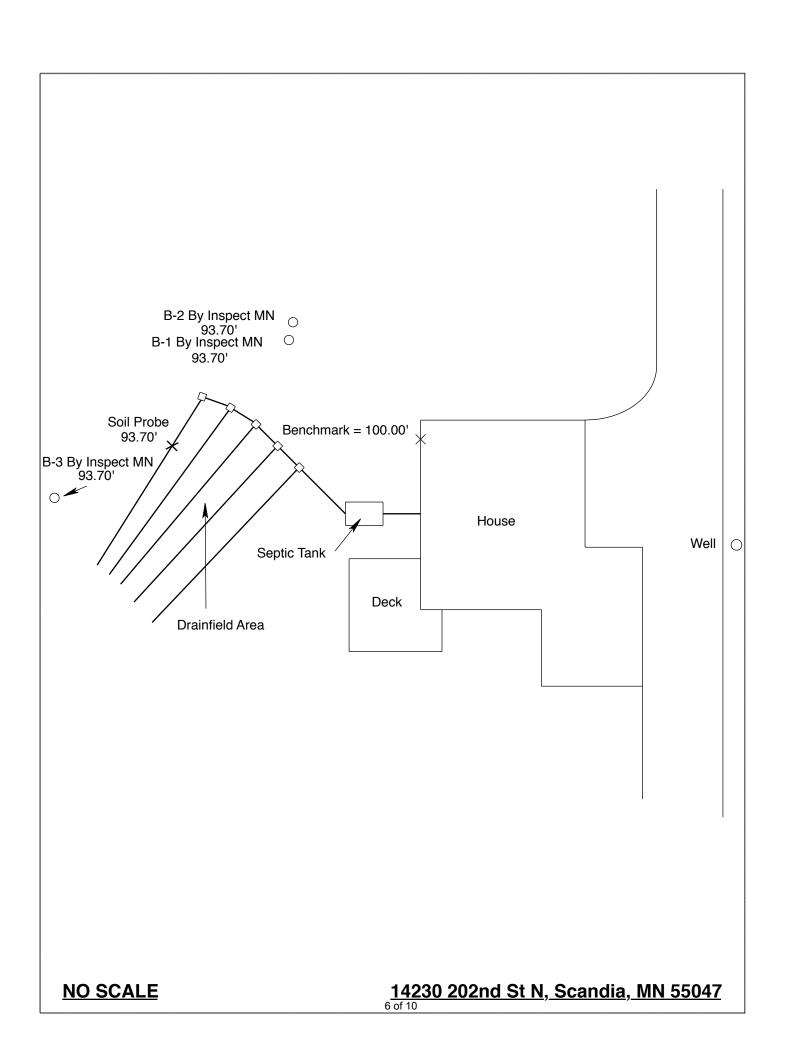
Page 3 of 3

**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,

### **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: July 19, 2016	Time: 9:00 AM						
Property Address: 14230 202nd St N, Scandia, MN	Zip: 55074						
Property Owner: Penny Hennen	Phone: 651-433-3547						
Tank(s)       Tank(s)Material       Soil Treatment System         Septic 1       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 *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: 1991 Year septic installed: 1991	Tank size (gals.): 1250						
	sidents in home?						
Number of bedrooms? Are all floors drained by g							
Garbage disposal? Whirlpool bath?							
More than one system (laundry, etc.)?							
Does this property have any footing drain tiles connected to the se	eptic system?						
Are any buildings on this property such as garages or out-building	s connected to this system?						
Are there any additional systems on this property serving other bu	ildings?						
Location of septic system on lot? West Side							
	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?  If yes, explain:							
When was the system last pumped? Name of pumper:							
How often pumped in previous years?							
Have you received notices from any government agency concerning this system?							
Is your property located in a shoreland management area? Y							
Do you have any additional information that should be given to the new owner?							
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:	Date:						



### **Log Of Soil Borings**

Location of Project: 14230 202nd St N, Marine On St. Croix, MN, 55047						
Bor	Borings Made By: Inspect Minnesota			Date:	7/19/16	
	Auger Used: Hand/Bucket		Classification System: USDA		USDA	
Во	Boring Number: 3		Boring Number:			
Surface		93.70'	Surface			
Elevation of	Benchmark	= 100.00' at patio	Elevation	of		
Boring	door	threshold	Boring			
Depth In	Soils Fr	ncountered	Depth In	Soils F	ncountered	
Inches	•		Inches	20113 2	incounter eu	
0-20 20-30	7.5YR 4/4	S Loamy Sand Sandy Loam				
30-51		andy Loam With lium Sand Layers				
51-60		Loamy Sand				
	Refus	sal at 60"				
01 521 51		Of Distribution Mark		Flavorian To Dou	Of Distribution Marti	
91.53' Elevation To Bottom Of Distribution Media -88.70' Depth To Redox			Depth To Redox	Of Distribution Media		
≥2.83'/34" Of Separation			Of Separation			
	nd Of Boring At:	60"		End Of Boring At:		
Redox Present At: None				Redox Present At:		
Standing Water Present At: None Standing Water Pres						

Bottom Of Distribution Medium At: 26" Or Elevation 91.53' At Soil Probe

### **Log Of Soil Borings**

Location of Project: 14230 202nd St N, Scandia, MN 55047						
В	orings Made By:	Inspect Minnesota	Date:		7/19/16	
	Auger Used:	Hand/Bucket	Classification System:		USDA	
	Boring Number: 1		Boring Number:		2	
Surface		93.70'	Surface			
Elevation		= 100.00' at patio	Elevation of		93.70'	
Boring	dooi	threshold	Boring			
Depth In	Soils Er	ncountered	Depth In Inches	ncountered		
Inches 0-15	10VR 3/3 Mediu	ım Sand (Very Dry)	0-18	10YR 3/3 Medium Sand (Very D		
		t 15" Boulder	18-35		and (Very Dry) With Gravel	
					ck And Cobbles	
			35-58		ny Sand With Gravel ock & Cobbles	
					isal at 58"	
N/A	Flevation To Botton	n Of Distribution Media	91.53'	Flevation To Botton	n Of Distribution Media	
N/A Depth To Redox Or End Of Boring		-88.87' Depth To Redox Or End Of Boring				
N/A Of Separation			≥2.66'/32"			
	Find Of Dender At	4 F !!			FO!!	
	End Of Boring At:	15"		End Of Boring At:		
Redox Present At: N/A			C+= :	Redox Present At:		
Standing	Water Present At:	N/A	Standing	Water Present At:	None	

Bottom Of Distribution Medium At: 26" Or Elevation 91.53' At Soil Probe

### **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.

# Sulbsurface Sewage Treatment Systems

Non-transferable



License # L2896

Date of Issuance:

Oct 28, 2015 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016

Adv Designer License Expires:

Adv Inspector License Expires: Maintainer License Expires: Installer License Expires:

### Certification

Inspect Minnesota, Midwest Soil Testing

10/15/2017 Expires

10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

**Designated Certified** 

Individual (DCI) Brian L. Humpal Brian L. Humpal

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Inspector (Certified) Designer (Certified)

Christopher R. Uebe Christopher R. Uebe

03/04/2018

03/04/2018

Steven Giddings Manager Environmental Business Assistance Section



## Minnesota Pollution Control Agency

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

Brian L. Humpal Brian L. Humpal

Brian L. Humpal