#### **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

Inspection Address: 12408 228<sup>th</sup> St N, Scandia, MN 55073

#### REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Shannon Kalsta, and have reviewed the original design/permit records on file at Washington County. This system consists of a pre-cast two-compartment septic tank, a pre-cast lift tank, and an at-grade.

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.

Brian Humpal Brian Humpal



## **Compliance Inspection Form**

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	Doe Type. Compliance and Emoleciment
<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPC 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 owne within 15 days	r
System Status	
System status on date (mm/dd/yyyy): 6/29/2017	
	compliant – Notice of Noncompliance Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent three Other Compliance Conditions (Compliance Component #3) – Imminent Tank Integrity (Compliance Component #2) – Failing to protect ground Other Compliance Conditions (Compliance Component #3) – Failing to Soil Separation (Compliance Component #4) – Failing to protect ground Operating permit/monitoring plan requirements (Compliance Component	t threat to public health and safety water protect groundwater ndwater
Property Information Parcel ID# or Sec/Twp/F	Range:
	on for inspection: Property Transfer
Property owner: Tom Schafer & Shannon Kalsta Owner	r's phone: 612-868-6311
Or	and the above
•	esentative phone:atory authority phone: 651-430-4052
Brief system description:  A pre-cast two-compartment septic tank, a pre-cast lift  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.	
·	ication number: L5342
	icense number: <u>L2896</u>
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	License

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Property address: 12408 228th St N, Scandia, MN 55073

Inspector initials/Date: 06/29/2017

<u>1.</u>	lm	Impact on Public Health — Compliance component #1 of 5				
	Co	ompliance criteria:		Verification method(s):		
		stem discharge sewage to the bund surface.	☐ Yes ⊠ No	<ul><li>☑ Searched for surface outlet</li><li>☑ Searched for seeping in yard/backup in home</li></ul>		
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠ No	<ul> <li>☑ Excessive ponding in soil system/D-boxes</li> <li>☑ Homeowner testimony (See Comments/Explanation)</li> </ul>		
		stem cause sewage backup into velling or establishment.	☐ Yes ⊠ No	<ul> <li>"Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>		
		ny "yes" answer above indicates Imminent Threat to Public Heal	-	☐ 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	ompliance criteria:		Verification method(s):		
		stem consists of a seepage pit,	☐ Yes ☒ No	□ Probed tank(s) bottom		
		sspool, drywell, or leaching pit.		Examined construction records		
	col	epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.		<ul><li>☐ Examined Tank Integrity Form (Attach)</li><li>☐ Observed liquid level below operating depth</li></ul>		
		wage tank(s) leak below their signed operating depth.	☐ Yes ☒ No	Examined empty (pumped) tanks(s)		
		ves, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"		
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>			
	Сс	omments/Explanation:				
	Lowered underwater camera into tanks - baffles and tank walls OK.					
	Lif	t pump and alarm were operational at	the time of the inspection.			
_	<u> </u>	.h	- 0 "			
<u>3.</u>	U	ther Compliance Conditions	·			
	a.	Maintenance hole covers are damaged		•		
	b.	Other issues (electrical hazards, etc.) to i *System is an imminent threat to pu		pact public health or safety. ☐ Yes* ☒ No ☐ Unknown		
		Explain:				
	C.	System is non-protective of ground wa *System is failing to protect ground		termined by inspector ☐ Yes* ☐ No		
		Explain:				

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Property address: 12408 228th St N, Scandia, MN 55073

Inspector initials/Date: 06/29/2017

Date of installation: 2012	Unkr	nown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes	□No	Soil observation does not expire. F		
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	requirements differ.  ☑ Conducted soil observation(s) ☐ Two previous verifications (Atta	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	Comments/Explanation: Reviewed design and permit recor	ds.	
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	Indicate depths of elevations		
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.			B. Periodically saturated soil/bedrock C. System separation		
Any "no" answer above indicates to Failing to Protect Groundwater.	he syst	em is	<ul><li>D. Required compliance separation*</li><li>*May be reduced up to 15 percent Ordinance.</li></ul>	if allowed by Local	
Operating Permit and Nitrogen B	<b>MP*</b> – C	Compliance	e component #5 of 5 🛮 🗵 <b>Not ap</b>	olicable	
Is the system operated under an Operating Per	mit?	☐ Yes [	☑ No If "yes", A below is required		
Is the system required to employ a Nitrogen BM	IP?	☐ Yes [	⊠ No If "yes", B below is required		
BMP=Best Management Practice(s) specifi	ied in the	system des	ign		
If the answer to both questions is "no",	this sec	tion does	not need to be completed.		
Compliance criteria					
a. Operating Permit number:					
Have the Operating Permit requirements to	peen met	?	Yes No		
b. Is the required nitrogen BMP in place and			P ☐ Yes ☐ No		

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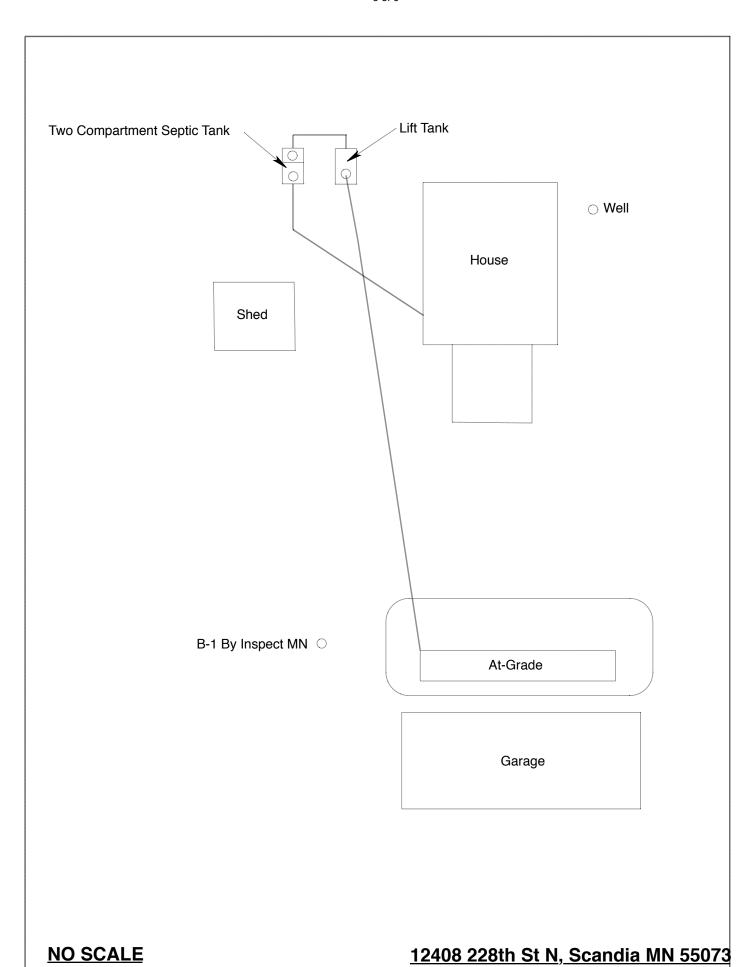
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: June 29, 2017	Time: 8:30 AM	
Property Address: 12408 228 <sup>th</sup> St N, Scandia, MN	Zip: 55073	
Property Owner: Tom Schafter & Shannon Kalsta	Phone: 612-868-6311	
Tank(s) Tank(s)Material Soil Treatment S		
Septic 2 Comp Fiberglass Rock trench	Alternative system	
Aerobic Plastic Gravelless tree		
<ul><li>☐ Lift</li><li>☐ Metal</li><li>☐ Chamber trend</li><li>☐ Seepage bed</li></ul>	ch Cesspool system Other system	
Other: Block Mound		
Other At-grade		
Are the tank maintenance covers accessible? ⊠ Yes □ N	o *If no, proper maintenance must be	
performed through the maintenance holes. Maintenance ho		
the ground surface to facilitate access and proper maintenant		
Year house built: 1975 Year septic installed: 2012	Tank size (gals.): 1600 2-Comp	
	er of residents in home? 2	
Number of bedrooms? 2 Are all floors drained	ed by gravity? N	
Garbage disposal? Y Whirlpoo	ol 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-b	uildings connected to this system? N	
Are there any additional systems on this property serving o	ther buildings? N	
Are there any additional systems on this property serving other buildings? IN		
Location of conting system on lot? South side		
Location of septic system on lot? South 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 s		
surfacing of sewage onto the ground, septic tank overflowing		
to the system? Y If yes, explain:2015, replaced lift pump li		
flex fitting on lift pump line.	ne to prevent clogging. 2017, replaced	
nex name on ma pump me.		
When was the system last pumped? 2015 Name	of pumper: Tom's Sewer Servie	
How often pumped in previous years? Every 3 Is	system on a monitoring plan? N	
Have you received notices from any government agency co	oncerning 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: Shannon Kalsta's Signature On File Date: 06/29/2017



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

Boring   Made By:   Inspect Minnesota   Date:   6/29/16	Location of Project: 12408 228th St. N, Scandia, MN 55073					
Surface   Boring Number:   1   Boring Number:						6/29/16
Surface Elevation of Boring on original contour at downslope edge of at-grade Boring  Depth In Inches  O-6 6-25 10YR 3/2 Fine Sand 10YR 5/3 Fine Sand 10YR 5/3 Fine Sand With 10YR 3/4 Lamellea Banding 38-46  38-46  Depth To End Of Boring Or Redox Same Elevation of Boring Relative To System  At-Grade Depth To Bottom Of Distribution Media = 38"  End Of Boring At:  End Of Boring At:  Boring  Surface Elevation of Boring At: Elevation of Boring At: Boring  Soils Encountered  Soils Encountered  Soils Encountered  Soils Encountered  Depth In Inches  Soils Encountered  Soils Encountered  Soils Encountered  Soils Encountered  Soils Encountered		Auger Used:	Hand/Bucket	Classi	fication System:	USDA
Elevation of Boring  Depth In Inches  O-6 6-25 23-23 32-38 38-46  Depth To End Of Boring Or Redox Same Elevation of Boring Or Redox Same Elevation of Boring Or Redox Same Elevation of Boring Relative To System At-Grade Depth To Bottom Of Distribution Media = 38"  Depth To End Of Boring At: Redox Present At:  Elevation of Boring At: Boils Encountered Inches Soils Encoun		Boring Number:	1		Boring Number:	
Boring   Fockbed on West side   Boring	Surface	Boring on (	original contour at	Surface		
Depth In   Inches   Soils Encountered   Depth In   Inches   Soils Encountered	Elevation of	of downslope	e edge of at-grade	Elevation (	of	
Inches  O-6 6-25 10YR 3/3 Fine Sand 6-25-32 32-38 10YR 5/3 Fine Sand With 10YR 3/4 Lamallea Banding 10YR 3/4 Lamellae Banding And 7.5YR 5/8 Redox   Bepth To End Of Boring Or Redox Same Elevation Of Boring Relative To System  At-Grade Depth To Bottom Of Distribution Media = 38" Depth To Boring At: 46" End Of Boring At: 46" Redox Present At: Same Redox Present At:  Inches Solis Encountered Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Inches Solis Encountered  Depth To End Of Boring Or Redox  Depth To End Of Boring Or Redox  Elevation Of Boring Or Redox  Elevation Of Boring Relative To System  Depth To Bottom Of Distribution Media  Of Separation  End Of Boring At: 46" End Of Boring At: Redox Present At:  Redox Present At:		rockbe	d on west side	)		
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Redox Present At: 38" Redox Present At:		End Of Boring At	46"		End Of Boring At	
Standing Water Present At: None Standing Water Present At:						

Bottom Of Distribution Medium At: At-Grade

#### **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: 12/22/2017

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