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 REPO		
Date: August 2, 2016Time: 9:30 AMOwner: Erich Johnson		
Inspection Address: 16755 3rd St N, Lakeland Shores, MN 55043		
REPORT SUMMARY		

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2011, which were on file at Washington County. This older system (installed in 1990) consists of a pre-cast septic tank, pre-cast lift 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 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

Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194	Compliance Inspection Form Existing Subsurface Sewage Treatment Systems (SSTS) Doc Type: Compliance and Enforcement					
Instructions: Inspection results based on Minnesot requirements and attached forms – additional local results and attached forms – additional local results are additional local results.	0) ()					
Submit completed form to Local Unit of Govern within 15 days	nent (LUG) and system owner					
System Status System status on date (mm/dd/yyyy): _8/	/2016					
Compliant – Certificate of Comp (Valid for 3 years from report date, unless frame outlined in Local Ordinance.)						
Reason(s) for noncompliance (check a	ll applicable)					
	omponent #1) – Imminent threat to public health and safety					
☐ Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety						
	Tank Integrity (Compliance Component #2) – Failing to protect groundwater					
Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater						
Soil Separation (Compliance Component #4) – Failing to protect groundwater						

Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant
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Property Information

Parcel ID#	or Sec/Twp/Range:	

Property address: 16755	3 rd St N, Lakeland Shores, MN 55043	Reason for inspection: Property Sale
Property owner: Erich Joh	nnson	Owner's phone: 651-332-9506
or		
Owner's representative:		Representative phone:
Local regulatory authority: Washington County		Regulatory authority phone:651-430-4052
Brief system description: Pre-cast septic tank, a pre-cast lift tank, and rock trench dra		k trench drainfield
Comments or recommendations:		

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name:	Brian Humpal	Certification number:	L5342
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signatur	e: Brian Humpal	Phone number:	651-492-7550

Necessary or Locally Required Attachments

🖾 Soil boring logs	🛛 System/As-built drawing	Forms per local ordinance
Other information (list):	Report Summary, Property Informa	tion, Disclaimer, License

Searched for seeping in yard/backup in home

Homeowner testimony (See Comments/Explanation)

Other methods not listed (See Comments/Explanation)

Excessive ponding in soil system/D-boxes

"Black soil" above soil dispersal system

System requires "emergency" pumping

Unable to verify (See Comments/Explanation)

Verification method(s): Searched for surface outlet

Performed dye test

1. Impact on Public Health – Compliance component #1 of 5

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 the system is an Imminent Threat to Public Health and Safety.

Comments/Explanation:

None of the above found.

A soil boring over the drainfield indicated no signs of ponding or black/grey soils.

2. Tank Integrity - Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes	🛛 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		
Sewage tank(s) leak below their designed operating depth.	🗌 Yes	🛛 No
If yes, which sewage tank(s) leaks:		

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

Lowered underwater camera into tanks - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection.

3. Other Compliance Conditions – Compliance component #3 of 5

a.	Maintenance hole covers are damaged	, cracked, unsecured,	or appear to structurally unsound.	□ Yes*	🖾 No	🗌 Unknown
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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 ground water for other conditions as determined by inspector ***System is failing to protect groundwater**

Explain:

ge pit, □ Yes ⊠ No g pit. □ Yes ⊠ No i0 may be □ Examined Construction records

- □ Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

4. Soil Separation – Compliance component #4 of 5

Date of installation: _1990	Unknown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 No	Soil observation does not expire. Pr		
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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	⊠ Yes 🔲 No	 Interse site conditions have been altered of local requirements differ. Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation) 		
Non-performance systems built April 1,	🗌 Yes 🔲 No	Comments/Explanation:		
1996, or later or for non-performance systems located in Shoreland or Wellhead		Reviewed previous compliance insp	ection from 2011.	
Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit records	S.	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*		System bottom above elevation 688	.00'	
"Experimental", "Other", or "Performance"	🗌 Yes 🔲 No	Indicate depths of elevations		
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		B. Periodically saturated soil/bedrock		
separation distance from periodically saturated soil or bedrock.		C. System separation		
		D. Required compliance separation*		
Any "no" answer above indicates the system is Failing to Protect Groundwater.		*May be reduced up to 15 percent if allowed by Local Ordinance.		
Operating Permit and Nitrogen B	MP* – Complian	ce component #5 of 5 🛛 🛛 Not appl	icable	
Is the system operated under an Operating Per		⊠ No If "yes", A below is required		
Is the system required to employ a Nitrogen BMP? If Yes INO If "yes", B below is required				
BMP=Best Management Practice(s) specifi	ied in the system d	esign		
If the answer to both questions is "no", this section does not need to be completed.				

Cor	Compliance criteria		
a.	Operating Permit number:		
	Have the Operating Permit requirements been met?	🗌 Yes 🗌 No	
b.	Is the required nitrogen BMP in place and properly functioning?	🗌 Yes 🔲 No	

Any "no" answer indicates Noncompliance.

5.

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

<u>Inspect Minnesota & Midwest Soil Testing</u>

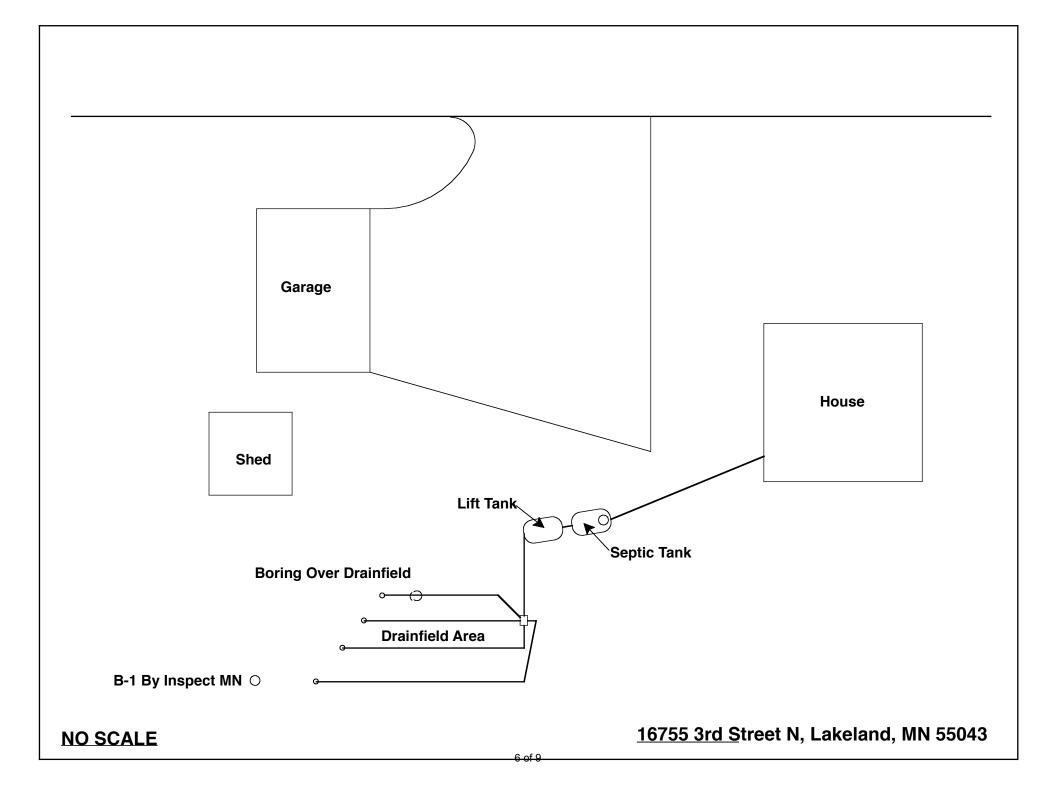
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 2, 2016	Time: 9:30 AM			
Property Address: 16755 3rd St N, Lakeland Sh				
Property Owner:Erich JohnsonTank(s)Tank(s)MaterialSoil T	Phone: 651-332-9506			
Septic 1FiberglassRoAerobicPlasticGrZLiftMetalChHoldingConcreteSe	Greatment System Other ock trench Alternative system avelless trench Experimental system namber trench Cesspool system epage bed Other system			
	-grade			
Are the tank maintenance covers accessible?	enance hole covers should be made accessible to maintenance of the system.			
Year house built: 1957 Year septic installe				
How long has seller owned the property?	Number of residents in home?			
	ors drained by gravity? Y			
Garbage disposal?	Whirlpool bath?			
More than one system (laundry, etc.)? Does this property have any footing drain tiles co				
Are any buildings on this property such as garages or out-buildings connected to this system? Are there any additional systems on this property serving other buildings?				
Logation of gontia gustom on lot? Southwast Side				
Location of septic system on lot? Southwest Side Location of water well on lot? City Water	Is the well a deep well? N/A			
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups,				
surfacing of sewage onto the ground, septic tank to the system? If yes, explain:				
When was the system last pumped?	Name of pumper:			
How often pumped in previous years?	Is system on a monitoring plan?			
Have you received notices from any government				
Is your property located in a shoreland manageme	ent area? N			
Do you have any additional information that shou				

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.

Date:



Log Of Soil Borings

1							
			eland Shores, MN 55043				
Borings Made By:			Class	Date:	8/2/16		
Auger Used:			Class	ification System:	USDA		
Boring Number:		1		Boring Number:			
		und surface as last nfield trench	Surface Elevation Boring				
Depth In Inches	Soils Encountered		Depth In Inches	<u>Soils Er</u>	Soils Encountered		
0-10 10-30	h In hes 0 7.5YR 2.5/1 Sandy Loam			Soils Encountered			
Fn	d Of Boring At:	30"		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: 30 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 1st through April 1st) 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

License # L2896

Adv Inspector License Expires: Adv Designer License Expires: Maintainer License Expires: Installer License Expires: Date of Issuance:

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

Inspect Minnesota, Midwest Soil Testing

Certificatio Expires	10/15/2017	10/15/2017	10/15/2017	10/15/2017	10/15/2017	03/04/2018	03/04/2018
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Minnesota Pollution Control Agency

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



Steven Giddings Manager Environmental Business Assistance Section