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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 SYSTE	EM (SSTS) COMPLIANCE REPORT			
Date: April 10, 2017Time: 10:30 AMOwner: Shawn & Megan Lohmann					
Inspection Address: 3604 Layton Ave N, Lake Elmo, MN 55042					

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 system consists of two pre-cast septic tanks, a pre-cast lift tank, and a seepage bed.

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		Comp
	520 Lafayette Road North St. Paul, MN 55155-4194	Existing Sul

liance Inspection Form

bsurface Sewage Treatment Systems

(SSTS)

Doc Type: Compliance and Enforcement

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): 4/10/2017

Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3)

Reason(s) for noncompliance (check all applicable)

□ Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety

Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety

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- 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

Property Information

Parcel ID# or Sec/Twp/Range:

Property address:	3604 L	ayton Ave N, Lake Elmo, MN 55042	Reason for inspection: Property Sale	
Property owner:	Shawn &	& Megan Lohmann	Owner's phone: 651-270-8216	
or				
Owner's represent	tative:		Representative phone:	
Local regulatory a	uthority:	Washington County	Regulatory authority phone: 651-430-4052	
Brief system desc	ription:	Two pre-cast septic tanks, a pre-cast lift	tank, and a seepage bed.	
Commonts or rock	ammonda	tions:		

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 Information, Disclaimer, License

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

Compliance criteria:			
System discharge sewage to the ground surface.	🗌 Yes 🖾 No		
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No		
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No		
Any "yes" answer above indicates the system is			

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Comments/Explanation:

None of the above found.

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 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.

Verification method(s):

- Probed tank(s) bottom
 Examined construction records
 Examined Tank Integrity Form (Attach)
 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)

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
- b. Other issues (*electrical hazards, etc.*) to immediately and adversely impact public health or safety. \Box Yes* \boxtimes No \Box 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 □ Yes* ⊠ No *System is failing to protect groundwater

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 2011		Verif	fication meth	od(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 N		 Soil observation does not expire. Previous soil observations by two independent parties are su unless site conditions have been altered or local requirements differ. Conducted soil observation(s) (Attach boring Two previous verifications (Attach boring logs Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation) 		
Compliance criteria:	1	unles			
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 ☐ N	° ⊠ C □ T □ N □ U			h boring logs) drainfield) 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 □ N		Comments/Explanation: Reviewed design and permit records.	5.	
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 □ N	o Indic	Indicate depths of elevations		
or V systems built under pre-2008 Rules, Type TV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bo	ottom of distributio	on media	See Attache Boring Log(s
Drainfield meets the designed vertical		B. Pe	eriodically saturate	ed soil/bedrock	
separation distance from periodically saturated soil or bedrock.		C. Sy	stem separation		
		D. Re	equired compliance	ce separation*	
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	s *May		to 15 percent if	allowed by Loca
Operating Permit and Nitrogen B	MP* – Compl	iance compon	nent #5 of 5	🛛 Not appli	icable
s the system operated under an Operating Per	mit?	Yes 🛛 No 🛛 If	f "yes", A belo	w is required	
s the system required to employ a Nitrogen BM	IP?	Yes 🛛 No 🛛 If	f "yes", B belo	w is required	
BMP=Best Management Practice(s) specifi	ied in the syster	m design			

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.

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.*

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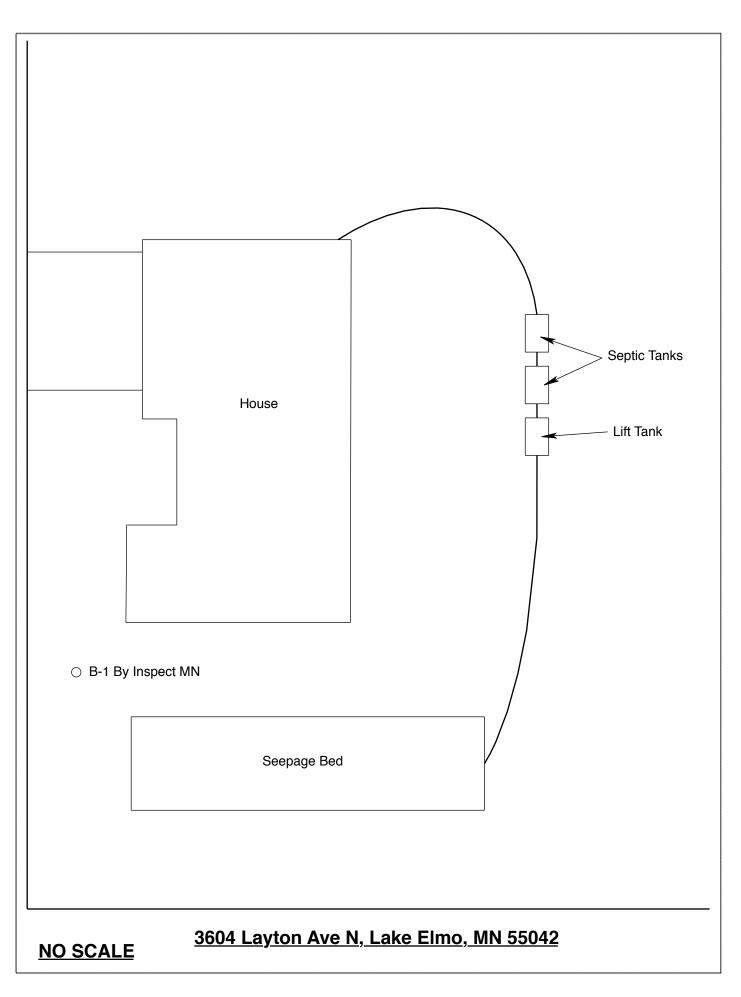
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: April 10, 2017	Time: 10:30 AM				
Property Address: 3604 Layton Ave N, Lake Eln	no, MN Zip: 55042				
Property Owner: Shawn & Megan Lohmann	Phone: 651-270-8216				
	reatment System Other				
	k trench Alternative system				
	velless trench Experimental system				
	Imber trench Cesspool system page bed Other system				
Other: Block					
Other At-					
Are the tank maintenance covers accessible? \boxtimes Y	es \Box No *If no. proper maintenance must be				
performed through the maintenance holes. Mainte					
the ground surface to facilitate access and proper r					
Vernheite 1065 Verneretie installe	1, 2011 Taula sine (a -1-): 2, 1000				
Year house built: 1965 Year septic installe	d: 2011Tank size (gals.): 2-1000Number of residents in home?				
How long has seller owned the property? Number of bedrooms? 3 Are all floo	ors drained by gravity? Y				
	Whirlpool bath?				
More than one system (laundry, etc.)?					
Does this property have any footing drain tiles cor	nected to the sentic system?				
Does this property have any rooting drain thes cor	needed to the septie system:				
Are any buildings on this property such as garages	or out-buildings connected to this system?				
The any buildings on and property such as galages of our buildings connected to and system.					
Are there any additional systems on this property serving other buildings?					
Location of septic system on lot? North 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 overflowing, etc.; or have any repairs been made					
to the system? If yes, explain:					
When was the system last pumped? 2011Name of pumper:					
How often pumped in previous years?	Is system on a monitoring plan?				
Have you received notices from any government a					
Is your property located in a shoreland manageme					
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:



Log Of Soil Borings

Locat	ion of Proiect:	3604 Layton Ave N, I	ake Elmo, N	MN 55042	
Borings Made By: Inspect Minnesota				Date:	4/10/17
		Hand/Bucket	Classif	ication System:	USDA
Bo	oring Number:	1	E	Boring Number:	
Surface Elevation of Boring	Same ground	l surface as seepage bed	Surface Elevation o Boring	f	
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	<u>Soils Er</u>	ncountered
0-12 12-22 22-37 37-50 50-60 60-78	10YR 4, 10YR 3 10YR 3/4 Mediu ≈15-20% 10YR 4/4 Very Fine 10YR 4/4 Very Fine S	/2 Silt Loam /3 Fine Sand /3 Silt Loam um Sand With Gravel Rock Fragments Fine Sand With e Sand Layers Fine Sand With Sand Layers And . 5/8 Redox			
60" De	epth To End Of B	oring Or Redox	D	epth To End Of Bo	oring Or Redox
Same Ele	evation Of Borin	g Relative To System	E	levation Of Boring	Relative To System
	epth To Bottom (Separation	Of Distribution Media		epth To Bottom C of Separation	f Distribution Media
En	nd Of Boring At:	78"	E	End Of Boring At:	
	dox Present At:	-		Redox Present At:	
	ater Present At:			Water Present At:	

Bottom Of Distribution Medium At: 24 Inches

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 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 Installer, Maintainer, Serv Prov,	10/15/2017 Adv Designer, Adv Inspector
C9852	Christopher R Uebe Designer, Inspector	3/4/2018



Minnesota Pollution Control Agency

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

Steven Giddings, Manager Prevention and Solid Waste Management Section