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

P.O. Box 10853 White Bea	Brian Humpal					
651-492-7550/Brian@Midw	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT						
Date: August 8, 2017Time: 2:00 PMOwner: Ron & Karen Krienke						
Inspection Address: 6346 Lamar Ave S, Cottage Grove, MN 55016						

### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system. I have contacted Washington County and was advised that there are no records for this system. This very old system (installed in 1987) consists of a pre-cast septic tank and a rock trench drainfield.

Predicated on my inspection of the system, it is my opinion that this system <u>presently</u> <u>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

Minnesota Pollution Control Agency		Compli
	520 Lafayette Road North St. Paul, MN 55155-4194	Existing Subs

### **Compliance Inspection Form**

### Existing Subsurface Sewage Treatment Systems

(SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA)	For local tracking purposes:
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

### System Status

System status on date (mm/dd/yyyy): 8/8/2017

### 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

2 of 9

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: 6346	Lamar Ave S, Cottage Grove, MN 55016	Reason for inspection: <u>Property Transfer</u>
Property owner: Ron &	Karen Krienke	Owner's phone: 651-459-5138
or		
Owner's representative:		Representative phone:
Local regulatory authority:	Washington County	Regulatory authority phone: _651-430-4052
Brief system description:	A pre-cast septic tank and a rock trench dra	ainfield.
Commonto or recommond	ational	

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 "was" anowar above indicate	a tha avatam ia

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 tank - baffles and tank walls OK.

### 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 damage	d, cracked, ι	unsecured, or ap	opear to structurally	y unsound.	🗌 Yes*	🖾 No	🗌 Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. \*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: 1987	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 No	Soil observation does not expire. Pr observations by two independent pa	
Compliance criteria:		unless site conditions have been alt	
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	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (A</li> <li>Two previous verifications (Attac</li> <li>Not applicable (Holding tank(s), not</li> </ul>	ch boring logs) o drainfield)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		Unable to verify (See Comments/I 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:	
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 pre-2008 Rules, Type TV 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	
saturated son of bedrock.		D. Required compliance separation*	
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Loca
Operating Permit and Nitrogen B	MP* – Compliand	e component #5 of 5 🛛 🖂 Not appl	icable
s the system operated under an Operating Per	mit? 🗌 Yes	⊠ No If "yes", A below is required	
s the system required to employ a Nitrogen BM	1P? 🗌 Yes	⊠ No If "yes", B below is required	
BMP=Best Management Practice(s) specif	ied in the system de	esign	
f the answer to both questions is "no",	this section doe	s not need to be completed.	
Compliance criteria			

a.	Operating Permit number:	🗌 Yes 🗌 No
	Have the Operating Permit requirements been met?	
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.* 

### Inspect Minnesota & Midwest Soil Testing

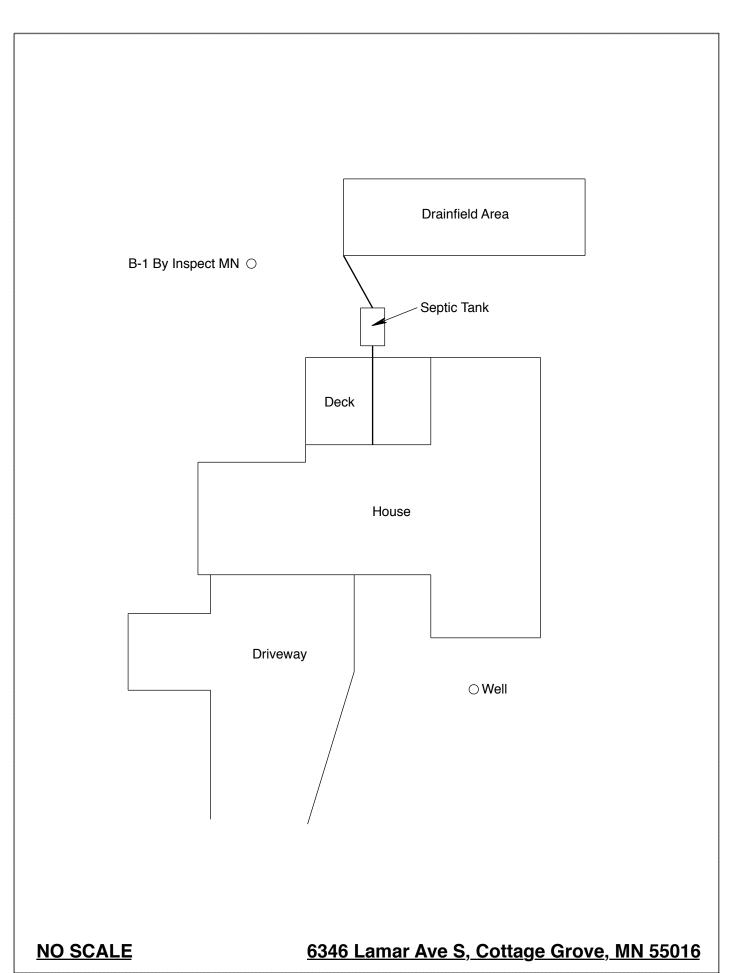
### Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: August 8, 2017	Time: 2:00 PM				
Dronorty Address, 6246 Lower Ave S. Cottogo Crows	MDI 7: 55016				
Property Address: 6346 Lamar Ave S, Cottage Grove Property Owner: Ron & Karen Krienke	<u>MN</u> Zip: 55016 Phone: 651-459-5138				
Property Owner:Ron & Karen KrienkeTank(s)Tank(s)MaterialSoil Treatment					
Tank(s)       Tank(s)/Material       Son Treating         Septic 1       Fiberglass       Rock tre         Aerobic       Plastic       Gravelle         Lift       Metal       Chamber         Holding       Concrete       Seepage         Other:       Block       Mound         Other       At-grade	nch       Alternative system         ss trench       Experimental system         trench       Cesspool system         bed       Other system				
Are the tank maintenance covers accessible?  Yes performed through the maintenance holes. Maintenance the ground surface to facilitate access and proper main	ce hole covers should be made accessible to				
Year house built: 1987 Year septic installed: 19	787 Tank size (gals.): 1200				
	umber of residents in home?				
	rained by gravity? Y				
	lpool bath?				
More than one system (laundry, etc.)?					
	Does this property have any footing drain tiles connected to the septic system?				
Are any buildings on this property such as garages or out-buildings connected to this system?					
Are there any additional systems on this property servi	ng other buildings?				
Location of septic system on lot? North Side					
Location of water well on lot? South Side	Is the well a deep well? Y				
Have you ever experienced any problems with the syst surfacing of sewage onto the ground, septic tank overfit to the system? If yes, explain:					
When was the system last pumped? 2014 Na	ame of pumper:				
How often pumped in previous years?	Is system on a monitoring plan?				
Have you received notices from any government agend					
Is your property located in a shoreland management ar					
Do you have any additional information that should be					

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

					Location of Project: 6346 Lamar Ave S, Cottage Grove, MN 55016					
201		Inspect Minnesota		Date:	8/8/17					
		Hand/Bucket	Classi	fication System:	USDA					
Bc	pring Number:		0.0.00	Boring Number:						
Surface		-	Surface							
Elevation of	-	and surface as last	Elevation	of						
Boring	draiı	nfield trench	Boring							
Depth In			Depth In							
Inches	Solis E	ncountered	Inches	Solis En	countered					
0-9 9-18 18-30 30-80 10	10YR 3 10YR 3 YR 4/4 Medium (	/1 Silt Loam /3 Silt Loam /4 Silt Loam Course Sand With Gravel ock Fragments								
80" De	pth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox					
		ation Of Boring Relative To System			Relative To System					
		Of Distribution Media			f Distribution Media					
=28" Of	Separation			Of Separation						
En	d Of Boring At:	80"		End Of Boring At:						
	dox Present At:	None		Redox Present At:						
	ater Present At:									

Bottom Of Distribution Medium At: 52 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 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	<b>Certification Expires:</b>
C5342	Brian L Humpal	10/15/2017
C9852	Installer, Maintainer, Serv Prov, Christopher R Uebe	3/4/2018
C9052	Designer, Inspector	5/4/2016



**Minnesota Pollution Control Agency** 

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

Steven Giddings, Manager Prevention and Solid Waste Management Section