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 COMPLIANCE REPORT

Inspection Address: 1990 Olene Ave N, West Lakeland, MN 55082

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 gravelless trench drainfield.

Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (9/5/2018).

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact the Washington County Department of Public Health & Environment (651-430-6655) to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

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 (MPCA) 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): 9/5/2018	
☐ 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)	e:e
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 ☐ 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: 1990 Olene Ave N, West Lakeland, MN 55082 Reason for inspection: Property Transfer	
Property owner: Steve Kirby Owner's phone: 651-264-5042	
or	
Owner's representative: Representative phone:	
Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655 Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a gravelless trench.	
Comments or recommendations:	
Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (9/5/2018).	
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/Christopher Uebe Certification number: C5342/C9852	
Business name: Inspect Minnesota, Midwest Soil Testing License number: L2896	
$\mathcal{P}: \mathcal{P} \to \mathcal{P} $	
Inspector signature: Brian Humpal for the Phone number: 651-492-7550	
Necessary or Locally Required Attachments Soil boring logs System/As-built drawing □ Forms per local ordinance	

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Property address: 1990 Olene Ave N, West Lakeland, MN 55082

Inspector initials/Date: 9/5/2018

1.	ln	npact on Public Health – Cor	mpliance	component #1	of 5				
		ompliance criteria:	☐ Yes		Verification method(s): ☐ Searched for surface outlet				
	Sy	ound surface. vstem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No	 ☑ Searched for seeping in yard/backup in home ☑ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation) 				
	Sy	rstem cause sewage backup into restablishment.	☐ Yes	⊠ No	 □ "Black soil" above soil dispersal system □ System requires "emergency" pumping □ Performed dye test 				
		ny "yes" answer above indicates I Imminent Threat to Public Head			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
	Co	omments/Explanation:							
2.	Mi ca		with this p s system	product having sig beyond the compl	s pipe is no longer approved for installation in the State of nificantly reduced performance and/or life expectancy. We iance date (9/5/2018).				
	Co	ompliance criteria:			Verification method(s):				
		rstem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No	☑ 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				
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No	Examined empty (pumped) tanks(s)				
		yes, which sewage tank(s) leaks:			□ Probed outside tank(s) for "black soil"□ Unable to verify (See Comments/Explanation)				
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.				○ Other methods not listed (See Comments/Explanation)				
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					ant #3 of 5				
<u>3.</u>		•	•						
	 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. ☐ Yes* ☒ No ☐ Unknown *System is an imminent threat to public health and safety 								
Explain:									
	C.	System is non-protective of ground wa *System is failing to protect ground		er conditions as de	etermined by inspector ☐ Yes* ☒ No				
		Explain:							

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Property address: 1990 Olene Ave N, West Lakeland, MN 55082

Inspector initials/Date: 9/5/2018 8# (M

١.	Soil Separation – Compliance compor	nent #4 of 5				
	Date of installation: 2000	Unknown	Verification method(s):			
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☒ No	Soil observation does not expire. Previous soil			
	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) (Attach boring logs) □ Two previous verifications (Attach boring logs) □ Not applicable (Holding tank(s), no drainfield)			
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		☐ Unable to verify (See Comments/Explanation) ☐ 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"	☐ 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.					
j.	Operating Permit and Nitrogen B	MP* – Compliand	ce component #5 of 5 🔀 Not applicable			
	Is the system operated under an Operating Permit? ☐ Yes ☒ No ☐ If "yes", A below 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 section does not need to be completed.					
	Compliance criteria					
	a. Operating Permit number:					
	Have the Operating Permit requirements I	peen met?	☐ Yes ☐ No			
	b. Is the required nitrogen BMP in place and	ng?				
	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, 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.

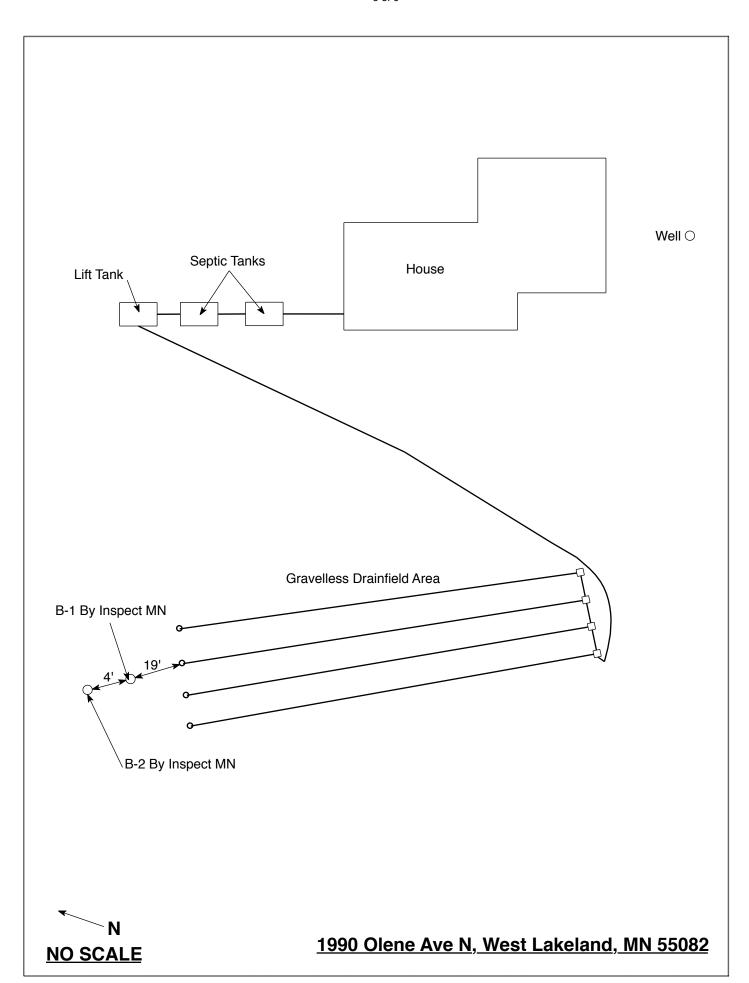
TTY 651-282-5332 or 800-657-3864 • Available in alternative formats 651-296-6300 • 800-657-3864 www.pca.state.mn.us • wq-wwists4-31 • 1/24/12 Page 3 of 3

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.

This information will be used for the purpose of conducting an ivit of Compitation inspection.				
Date of Inspection: September 5, 2018	Time: 1:00 PM			
Property Address: 1900 Olene Ave N, West Lakeland, MN	Zip: 55082			
Property Owner: Steve Kirby	Phone: 651-262-5042			
Tank(s) Tank(s)Material Soil Treatment System Septic 2 Fiberglass Rock trench Aerobic Plastic Sgravelless trench Lift Metal Chamber trench Holding Concrete Seepage bed Other: Block Mound Other At-grade Are the tank maintenance covers accessible? ✓ Yes No *If	Other Alternative system Experimental system Cesspool system Other system no, proper maintenance must be			
performed through the maintenance holes. Maintenance hole cover				
the ground surface to facilitate access and proper maintenance of	the system.			
Year house built: 2000 Year septic installed: 2000	Tank size (gals.): 2-1000			
How long has seller owned the property? Number of re	sidents in home?			
Number of bedrooms? 5 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-buildings connected to this system?				
Are there any additional systems on this property serving other bu	ildings?			
Location of septic system on lot? Tanks - North Side, Drainfield -	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? 2013 Name of pum	per:			
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? N				
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/Occup	ant:	Date:



Log Of Soil Borings

Location of Project: 1990 Olene Ave N, West Lakeland, MN 55082						
		Inspect Minnesota			Date:	9/5/18
	Auger Used:	Hand/Bucket	Classification System:		ation System:	USDA
Во	oring Number:	1		Во	ring Number:	2
Surface Same ground surface as last		Surface Elevation of Boring Same ground surface as land drainfield trench				
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered		<u>icountered</u>
0-10 10-22 22-40 40-61 61-70	Soils Encountered Soils Encountered 1010 1017		0-10 10-25 25-40 40-58	10YR 3/3 Loam (Moist) 10YR 4/4 Loam (Moist) 10YR 4/4 Fine To Medium Sand (Moist) With 7.5YR 5/8 & 5YR 3/4 Redox 7.5YR 4/4 Sandy Loam With 7.5YR 5/8 Redox Refusal At 58"		
22" Depth To End Of Boring Or Redox		25"	Depth To End Of Boring Or Redox		oring Or Redox	
Same Elevation Of Boring Relative To System		Same	Elevation Of Boring Relative To System		Relative To System	
	epth To Bottom (Separation	Of Distribution Media	-32" Depth To Bottom Of Distribution Media =0" Of Separation			
End Of Boring At: 70"				End	d Of Boring At:	58"
	dox Present At:	22"			dox Present At:	25"
Standing Water Present At: None			Standing	y Wa	ter Present At:	None

Bottom Of Distribution Medium At: 32 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 Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

es:

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expire
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



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

Charles K Thompson, Supervisor Certification & Training Unit