Midwest Sewer Services

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

Date: March 23, 2020 Time: 1:15 PM Owner: Steve Hesse

Inspection Address: 1261 Quinlan Ave S, Lake St Croix Beach, MN 55043

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 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 (3/23/2020). In addition, the drop boxes are located under the brick patio.

Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system <u>presently meets</u> MPCA minimum compliance inspection requirements.

Midwest Sewer Services 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. Midwest Sewer Services 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.

Christopher Uebe

Brian Humpal

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.	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): 3/23/2020				
· · · · · · · · · · · · · · · · · · ·	pliant – Notice of Noncompliance ade Requirements on page 3)			
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent three Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater hter			
Property Information Parcel ID# or Sec/Twp/Rang	e:			
Property address: 1261 Quinlan Ave S, Lake St Croix Beach, MN 55043 Reason fo				
	hone: 612-669-2450			
or				
Owner's representative: Represent	tative phone:			
	Regulatory authority phone: 651-430-6655			
Brief system description: Two pre-cast septic tanks and a gravelless trench drainfield	d.			
Comments or recommendations: Although not a compliance criteria, it should be noted that gravelless pipe is no longer a Minnesota and we have had experience with this product having significantly reduced p cannot guarantee the performance of this system beyond the compliance date (3/23/20; under the brick patio.	erformance and/or life expectancy. We			
Certification				
I hereby certify that all the necessary information has been gathered to determine the condetermination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.				
Inspector name: Brian Humpal/Christopher Uebe Certification	on number: <u>C5342/C9852</u>			
Business name: Midwest Sewer Services Licens				
Business name: Midwest Sewer Services Election	se number: L2896			
Brian Humpal 14- 1/	ne number: 651-492-7550			
Inspector signature: Brian Thumpal fiftee Man Phor				
Inspector signature: Phore Phore	ne number: 651-492-7550			
Inspector signature: Brian Thumpal fiftee Man Phor	ne number: 651-492-7550			

Property address: 1261 Quinlan Ave S, Lake St Croix Beach, MN 55043

Inspector initials/Date: 3/23/2020 **24**

1.	lm	pact on Public Health – Cor	mpliance o	compone	ent #1 of 5				
	Co	ompliance criteria:			Ve	erification method(s):			
	Sy	stem discharge sewage to the bund surface.	☐ Yes	⊠ No	\boxtimes	Searched for surface outlet Searched for seeping in yard/backup in home			
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)			
	System cause sewage backup into ☐ Yes ☒ No dwelling or establishment.					☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping			
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.				Performed dye test Unable to verify (See Comments/Explanation) Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:								
2.	Mi ca loc	nnesota and we have had experience	with this pr s system b	roduct ha eyond the	ving significa	e is no longer approved for installation in the State of antly reduced performance and/or life expectancy. We adate (3/23/2020). In addition, the drop boxes are			
	Co	ompliance criteria:			Ve	erification method(s):			
		stem 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 npliant if allowed in local ordinance.				Examined Tank Integrity Form (Attach) Observed liquid level below operating depth			
		wage tank(s) leak below their signed operating depth.	☐ Yes [⊠ No		Examined empty (pumped) tanks(s)			
	lf y	ves, 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. Comments/Explanation: Lowered underwater camera into tanks - baffles and tank walls OK.								
3.	01	her Compliance Conditions	5 – Compl	iance co	mponent #	3 of 5			
	a.	Maintenance hole covers are damage	d, cracked,	unsecure	d, 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		r conditio	ns as determ	ined by inspector ☐ Yes* ☒ No			
		Explain:							

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Property address: 1261 Quinlan Ave S, Lake St Croix Beach, MN 55043

Inspector initials/Date: 3/23/2020 **BA**

4.	Soil Separation — Compliance compor	nent #4 of	5						
	Date of installation: 2000	Unkno	wn	V	erification method(s):				
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes 🏻	⊠ No		Soil observation does not expire. Previous s observations by two independent parties are				
	Compliance criteria:			uı	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 b Two previous verifications (Attach boring Not applicable (Holding tank(s), no drainfi		ch boring logs)			
	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,	⊠ Yes [□No	С	Comments/Explanation:				
	1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:			R	Reviewed design and permit records.				
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*								
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	□ No	Indicate depths of elevations					
or \ 235	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 to Failing to Protect Groundwater.	he syster	m is		May be reduced up to 15 percent i Ordinance.	f allowed by Local			
5.	Operating Permit and Nitrogen B	MP* – Co	mpliance	com	ponent #5 of 5 Not app	licable			
	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) specified in the system design								
	If the answer to both questions is "no",	this secti	on does	not r	need to be completed.				
	Compliance criteria								
	a. Operating Permit number:				☐ Yes ☐ No				
	Have the Operating Permit requirements to		☐ res ☐ NO						
	b. Is the required nitrogen BMP in place and	properly fu	nctioning	?	☐ Yes ☐ No				
	Anv "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,

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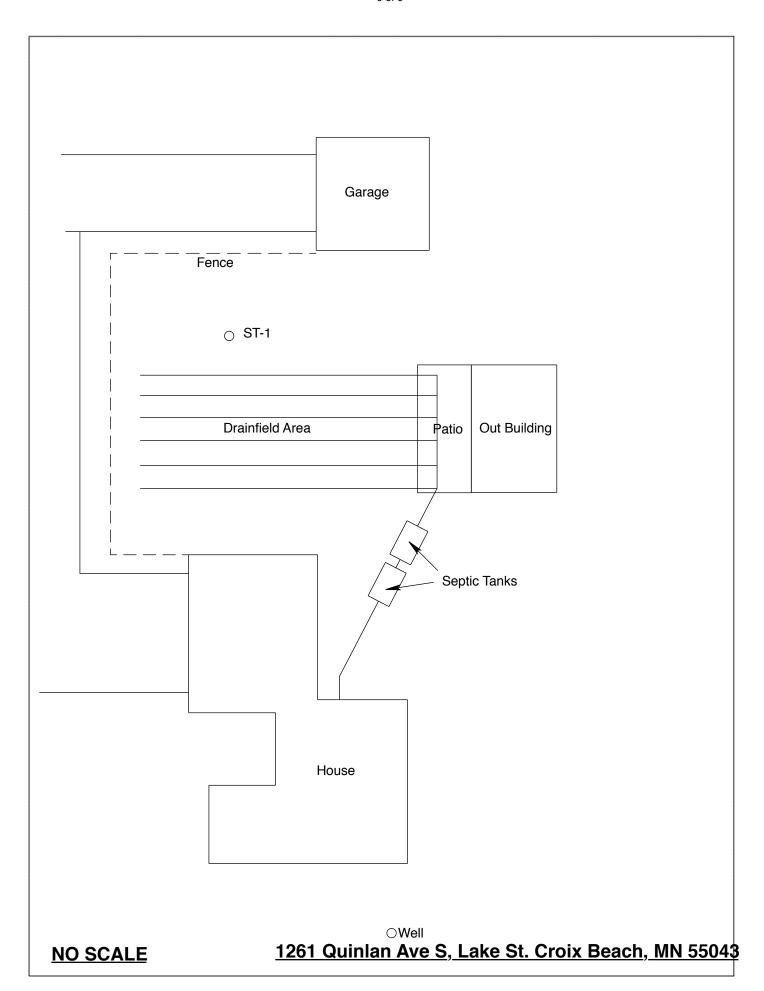
Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

Midwest Sewer 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 MPCA Compliance Inspection.						
Date of Inspection: March 23, 2020	Time: 1:15 PM					
Property Address: 1261 Quinlan Ave S, Lake St Croix Beach, MN	Zip: 55043					
Property Owner: Steve Hesse	Phone: 612-669-3450					
□ Aerobic □ Plastic □ Gravelless trench □ I □ Lift □ Metal □ Chamber trench □ Chamber trench	Other Alternative system Experimental system Cesspool system Other system					
Are the tank maintenance covers accessible? ⊠ Yes ☐ No *If no, p	proper maintenance must be					
performed through the maintenance holes. Maintenance hole covers s						
the ground surface to facilitate access and proper maintenance of the s	system.					
Year house built: 1972 Year septic installed: 2000 Tank	k size (gals.): 1-1500, 1-1000					
How long has seller owned the property? Number of reside	nts in home?					
Number of bedrooms? 5 Are all floors drained by gravit	ty? Y					
Garbage disposal? Whirlpool 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 serving other buildings?						
Location of septic system on lot? West Side						
	ll 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:						
	Ron's Sewer Service					
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						

Date:

Owner/Occupant:



Soil Observations Log

Location of Project: 1261 Quinlan Ave S, Lake St Croix Beach, MN 55043							
Observations Made By: Midwest Sewer Serv						Date:	3/23/2020
Classification System: USDA							
	Soil	Observation:	ST-1		Soil O	bservation:	
Surface Elevation of Observation Same ground surface as last drainfield trench			face tion of vation				
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils Encountered	
0-6 6-31 31-48 48-80	≈30	10YR 3/3 10YR 4/3 Media	Medium Sand Medium Sand um Sand With Gravel Medium Sand				
80"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
		ion Of Observation Relative To System			Elevation Of Observation Relative To Syster		
-42 Depth To Bottom Of Distribution Media					Distribution Media		
≥38" Of Separation			Of Sepa	ration			
End (Of Soil (Observation At:	80"	Fnd Of	Soil Ob	servation At:	
Liid		dox Present At:	None	Liid Oi		x Present At:	
Stan	Standing Water Present At: None			Standi		r Present At:	
Standing Water Frederic Act							

Bottom Of Distribution Medium At: 42 Inches			
Signature:	Color Ole		

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, 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

Midwest Sewer Services

License # L2896

License Expires: 12/22/2020

Issued: 11/26/2019

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert # Na

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2023

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852 4

Christopher R Uebe

3/4/2021

Designer, Inspector



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

Nick Haig, Supervisor Certification and Training Unit