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: January 21, 2021 **Time:** 2:00 PM **Owner:** Ben & Mary Brock **Inspection Address:** 150 Tanglewood Ln, Marine On St. Croix, MN **Site Conditions:** 7" Snow 5" Frost

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 2017, which were on file at Washington County. This system consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years. Smilie's Sewer Service pumped the septic tank on January 21, 2021.

Predicated on my inspection of the system and my review of the 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



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

Compliance inspection report form Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached supporting documentation – additional local requirements may also apply. Further information can be found here: https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.

Property information	Local tracking number:				
Parcel ID# or Sec/Twp/Range: Loca	al regulatory authority: Washington County				
Property address: 150 Tanglewood Ln, Marine On St. Croix, MN	55047				
Owner/representative: Ben & Mary Brock Owner's phone: 651-274-3609					
Brief system description: A pre-cast septic tank and a rock trench	drainfield.				
System status					
System status on date (mm/dd/yyyy):1/21/2021					
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice of noncompliance				
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists	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 or under section 145A.04 subdivision 8.				
in Local Ordinance.) *Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.				
Reason(s) for noncompliance (check all applicable)				
☐ Impact on public health (Compliance component #1) – Imminer					
☐ Tank integrity (Compliance component #2) – Failing to protect	groundwater				
☐ Other Compliance Conditions (Compliance component #3) – In					
☐ Other Compliance Conditions (Compliance component #3) – F					
System not abandoned according to Minn. R. 7080.2500 (Com					
Soil separation (Compliance component #5) – Failing to protect					
Operating permit/monitoring plan requirements (Compliance co	mponent #4) – Noncompliant - local ordinance applies				
Comments or recommendations					
Contification					
Certification					
I hereby certify that all the necessary information has been gathered determination of future system performance has been nor can be mabuse of the system, inadequate maintenance, or future water usag	ade due to unknown conditions during system construction, possible				
By typing my name below, I certify the above statements to be tru can be used for the purpose of processing this form.	e and correct, to the best of my knowledge, and that this information				
Business name: Midwest Sewer Services	Certification number: C5342/C9852				
Inspector signature: Bean Thempal Mine Uh	License number: L2896				
(This document has been electronically signed)	Phone: 651-492-7550				
Necessary or locally required supporting docu	ımentation (must be attached)				
	☐ Tank Integrity Assessment ☐ Operating Permit				
Other information (list):					
Report Summary, Property Information, Disclaimer, License					

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:		Attached supporting documentation:
System discharges sewage to the	☐ Yes* ☒ No	Other:
ground surface		☐ Not applicable
System discharges sewage to drain tile or surface waters.	☐ Yes* ⊠ No	
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No	
Any "yes" answer above indicates imminent threat to public health an	•	
Describe verification methods and	results:	
None of the above found.		

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:		Attached supporting d	locumentation	:		
System consists of a seepage pit,	☐ Yes* ☒ No	□ Pumped at time of inspection				
cesspool, drywell, leaching pit, or other pit?		Name of maintenance I	business:	Smilie's Sewer Service		
Sewage tank(s) leak below their	☐ Yes* ☒ No	License number of mai	ntenance busines	ss: <u>L222</u>		
designed operating depth?		Date of maintenance:		1/21/2021		
		☐ Existing tank integrity assessment (Attach)				
If yes, which sewage tank(s) leaks:		Date of maintenance (mm/dd/yyyy):	(must be within	n three years)		
Any "yes" answer above indicates the system is failing to protect groundwater.		(See form instructions to ensure assessment compl Minn. R. 7082.0700 subp. 4 B (1))				
		☐ Tank is Noncompliant (pumping not neces	sary – explain below)		
		Other:				
Describe verification methods and	d results:					

https://www.pca.state.mn.us wq-wwists4-31b • 1/11/21

3. Other compliance conditions – Compliance component #3 of 5

	sa.	Maintenance hole covers appear to be structurally unsound ☐ Yes* ☐ No ☐ Unknown	(damaged, cracked, ctc.), or unsec	,ui eu :
	3b.	Other issues (electrical hazards, etc.) to immediately and adve	ersely impact public health or safety	? ☐ Yes* ☒ No ☐ Unknown
		*Yes to 3a or 3b - System is an imminent threat to public	c health and safety.	
	3c.	System is non-protective of ground water for other condition	ns as determined by inspector?	☐ Yes* ☒ No
	3d.	System not abandoned in accordance with Minn. R. 7080.29	500?	☐ Yes* ☒ No
		*Yes to 3c or 3d - System is failing to protect groundwar	ter.	
		Describe verification methods and results:		
		Attached supporting documentation: Not applicable		
	0	erating normit and nitragen PMD* Com	nlianca component #4 of	5
4.	Op	erating permit and nitrogen bivip — Comp	phance component #4 or	J MUL applicable
4.		erating permit and nitrogen BMP* – Com	•	
<u>4.</u>	ls th	e system operated under an Operating Permit?	☐ Yes ☐ No If	"yes", A below is required
<u>4.</u>	ls th	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the	☐ Yes ☐ No If	"yes", A below is required
<u>4.</u>	Is th	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the BMP = Best Management Practice(s) specified in the syste	☐ Yes ☐ No If	"yes", A below is required "yes", B below is required
<u>4.</u>	Is th	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the BMP = Best Management Practice(s) specified in the syste see answer to both questions is "no", this section do	☐ Yes ☐ No If	"yes", A below is required "yes", B below is required
<u>4.</u>	Is the Is the Cor	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the BMP = Best Management Practice(s) specified in the syste re answer to both questions is "no", this section do npliance criteria:	☐ Yes ☐ No If	"yes", A below is required "yes", B below is required
<u>4.</u>	Is the Is the Cor	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the BMP = Best Management Practice(s) specified in the syste e answer to both questions is "no", this section do inpliance criteria: . Have the operating permit requirements been met?	☐ Yes ☐ No If e system design? ☐ Yes ☐ No If em design coes not need to be completed ☐ Yes ☐ No	"yes", A below is required "yes", B below is required
4	Is the Is the Cor	e system operated under an Operating Permit? e system required to employ a Nitrogen BMP specified in the BMP = Best Management Practice(s) specified in the syste re answer to both questions is "no", this section do npliance criteria:	☐ Yes ☐ No If e system design? ☐ Yes ☐ No If em design coes not need to be completed ☐ Yes ☐ No	"yes", A below is required "yes", B below is required
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5. Soil separation – Compliance component #5 of 5

Date of installation 1986 (mm/dd/yyyy)	_ 🗌 Unkr	nown			
Shoreland/Wellhead protection/Food	☐ Yes	⊠ No	Attached supporting documentation:		
beverage lodging?			⊠ Soil observation logs completed for th	e report (Attach)	
Compliance criteria (select one):			☐ Two previous verifications of required vertical separation (Attach)		
5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food,	⊠ Yes	☐ No*	 Not applicable (No soil treatment area) ☑ Reviewed previous compliance inspection from 2017, along with the design and permit records. 		
beverage or lodging establishment:					
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			anong man and acong rama pommercoo		
5b. Non-performance systems built April 1,		☐ No*	Indicate depths or elevations		
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:			A. Bottom of distribution media	See Attached Boring Log(s)	
			B. Periodically saturated soil/bedrock		
Drainfield has a three-foot vertical			C. System separation		
separation distance from periodically saturated soil or bedrock.*			D. Required compliance separation*		
			*May be reduced up to 15 percent if allo Ordinance.	wed by Local	
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Advanced Inspector License required)	' □ Yes	□ No*			
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.					
*Any "no" answer above indicates the	svstem	is			

Describe verification methods and results:

failing to protect groundwater.

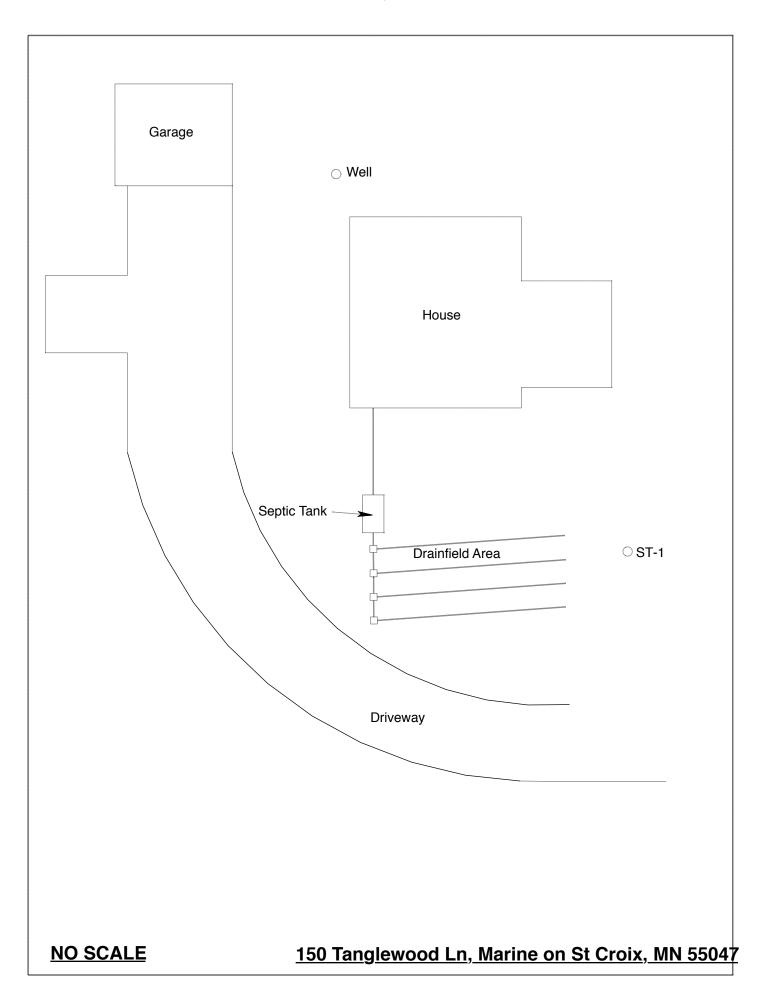
Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, 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.

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 Con	npliance Inspection.
Date of Inspection: January 21, 2021	Time: 2:00 PM
Property Address: 150 Tanglewood Ln, Marine On St. Croix, MN	Zip: 55047
Property Owner: Ben & Mary Brock	Phone: 651-274-3609
Tank(s) Tank(s)Material Soil Treatment System Septic 1 □Fiberglass □Rock trench □Aerobic □Plastic □Gravelless trench □Lift □Metal □Chamber trench □Holding □Concrete □Seepage bed □Other: □Block □Mound □Other □At-grade	Other Alternative system Experimental system Cesspool system Other system
Are the tank maintenance covers accessible? ⊠ Yes □ No *If no,	proper maintenance must be
performed through the maintenance holes. Maintenance hole covers	
the ground surface to facilitate access and proper maintenance of the	
	nk size (gals.): 1250
How long has seller owned the property? Number of resident	
Number of bedrooms? 2 Are all floors drained by grav	ity?
Garbage disposal? Whirlpool bath?	
More than one system (laundry, etc.)?	49
Does this property have any footing drain tiles connected to the seption	·
Are any buildings on this property such as garages or out-buildings of	onnected to this system?
Are there any additional systems on this property serving other buildi	ings?
Location of septic system on lot? West Side	
	ell a deep well? Y
Have you ever experienced any problems with the system such as: tre surfacing of sewage onto the ground, septic tank overflowing, etc.; or to the system? If yes, explain:	have any repairs been made
	r: Smilie's Sewer Service
	a monitoring plan?
Have you received notices from any government agency concerning t	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	ew owner?
I hereby certify that the above information is correct to the best of my knowledge. I considered "non-compliant/failing" per MPCA rules, that the inspector must by law local government unit within 15 days of the date of inspection completion. I also a this report, that I/we are ultimately responsible for payment of all fees for all work p by Inspect Minnesota and Midwest Soil Testing	submit a copy of this report to the agree that unless otherwise noted in

Date:

Owner/Occupant:



Soil Observations Log

Location of Project: 150 Tanglewood Ln, Marine On St. Croix, MN 55047							
Ob			Midwest Sewer Ser			Date:	1/21/2021
Classification System: USDA							
	Soil	Observation:	ST-1		Soil O	bservation:	
	face tion of vation	_	nd surface as last field trench		face tion of vation		
Depth In Inches	Rock %	Soils E	ncountered	Depth In Inches	Rock %	Soils	Encountered
0-12 12-43 43-60 60-80		10YR 4/ 7.5YR 4/4 Medi	3 Sandy Loam 4 Sandy Loam um Sand With Gravel um Sand With Gravel				
80"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
			n Relative To System				tion Relative To System
			stribution Media				Distribution Media
≥32"	Of Sepa	ration			Of Sepa	ration	
Fnd	Of Soil (Observation At:	80"	Fnd ∩f	Soil Ob	servation At:	
Liid		dox Present At:	None	2110 01		x Present At:	
Stan		iter Present At:	None	Standi		r Present At:	
Startaing Water Fresche Act						-	

Bottom Of Distribution Medium At: 48 Inches					
Signature:	Offer the				

Log Of Soil Borings

Loc	Location of Project: 150 Tanglewood Ln, Marine on St Croix, MN 55047						
В	Borings Made By:	Inspect Minnesota	Date: 8/30/17				
Auger Used: Hand/Bucket			Class	ification System:	USDA		
	Boring Number:	1		Boring Number:			
Surface Elevation Boring	of Same grou	and surface as last	Surface Elevation Boring				
Depth In Inches	Soils E	ncountered_	Depth In Inches	Soils Er	ncountered		
0-12 12-30 30-73	10YR 3/4 Mediu ≈15-20% 10YR 4/4 Medium 0 ≈20-30%	2 Loamy Sand Im Sand With Gravel Rock Fragments Course Sand With Gravel Rock Fragments sal At 73"					
73"	Depth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox		
Same	Elevation Of Boring	g Relative To System		Elevation Of Boring	Relative To System		
-48"	Depth To Bottom (Of Distribution Media		Depth To Bottom C	of Distribution Media		
≥25"	Of Separation			Of Separation			
	- 1065 · ·	70"		= 1065 · ·			
	End Of Boring At:	73"		End Of Boring At:			
	Redox Present At:	None	<u> </u>	Redox Present At:			
Standing	Water Present At:	None	Standing	Water Present At:			

Bottom Of Distribution Medium At: 48 Inches

-SOIL BORINGS-

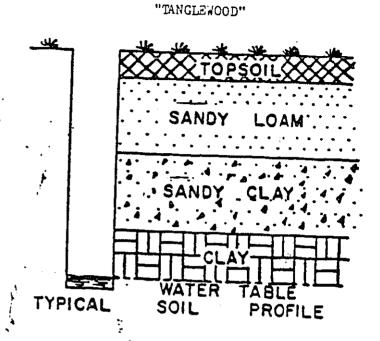
Lot 2 Block 1

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



LOG OF SOIL BORINGS

BOR	ING NO. I	BOR	ING NO. 2	BOR	NG NO. 3	BORI	NG NO. 4
DEPTH IN FEET	SOIL DESCRIPTION Very Jark	OEPTH IN FEET	derchrition Soil	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH	SOIL
0	Grayish Brown Sandy Loam	0	Grayish Brown Sandy Loam		Very Dark Grayish Brown	FEET	.DESCRIPTION
1/2	Dark Brown	1/2	Paura Dosm	1/2	Silt Loam		Grayish Ero
Į.	Sandy Loam		Dark		Dark Brown	1/2	Loamy Fn San
11/2	Dark Brown	11/2	Brown	11/2		1	
2	Danie Brown	2	Silt Loam	2	Silt Loam	11/2	Dark
21/2	i (21/2	Do est. D	21/2	Bark Brown	2	Brown
3	Sand	3	Dark Brown	3	Loamy Sand	21/2	
31/2		31/2	Very Fine	31/2	Dark Brown	3	
4	Dark Brown Silt Loam	4	Sand	4	1	31/2	
41/2	Brown	41/2		41/2	1	4	Sand
5	Sand	5	Brown	5	Sand	41/2	
51/2	stone	51/2	. }			5	والمناء والمستان والمستاد
6	obstruction	6	Sand	51/2	Вгонп	51/2	•
61/2	· 9 66"	61/2	-	6	[6	Brown
7	.	7		61/2	Coarse	61/2	Sand &
71/2	-	71/2	stone	7	Sand	7	Gravel
8	}	8	obstruction	71/2		71/2	
81/2	}	81/2	@ 86"	8		8	
9	} -	9	<u> </u>	81/2		81/2	
		3		9	. [9	

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 only 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 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 # N

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