#### **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

Inspection Address: 11390 Kingsborough Trail, Cottage Grove, MN 55016

#### 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 two at-grades.

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

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (Mirequirements and attached forms – additional local requirements may also apply.	PCA) For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system own within 15 days	ner
System Status	
System status on date (mm/dd/yyyy): _5/5/2020	
	ncompliant – Notice of Noncompliance e Upgrade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent the Other Compliance Conditions (Compliance Component #3) – Immine Tank Integrity (Compliance Component #2) – Failing to protect groud Other Compliance Conditions (Compliance Component #3) – Failing Soil Separation (Compliance Component #4) – Failing to protect groud Operating permit/monitoring plan requirements (Compliance Component)	ent threat to public health and safety indwater i to protect groundwater bundwater
Property Information Parcel ID# or Sec/Twg	o/Range:
• •	-
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Rea	-
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Rea Property owner: David & Susan Casper Ow	ason for inspection: Property Transfer ner's phone: 925-984-9877
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Rea Property owner: David & Susan Casper Ow  or  Owner's representative: Rep	ason for inspection: Property Transfer rner's phone: 925-984-9877  presentative phone:
Property address:11390 Kingsborough Trail, Cottage Grove, MN 55016 Real Property owner:	ason for inspection: Property Transfer rner's phone: 925-984-9877  presentative phone:
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Read Property owner: David & Susan Casper Owner's representative: Representative: Representative: Washington County Regressions Two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks, a pre-cast lift tank, and two pre-cast septic tanks.	ason for inspection: Property Transfer rner's phone: 925-984-9877  presentative phone:
Property address:11390 Kingsborough Trail, Cottage Grove, MN 55016 Real Property owner: David & Susan Casper	ason for inspection: Property Transfer rner's phone: 925-984-9877  presentative phone:
Property address:	ason for inspection: Property Transfer pricer's phone: 925-984-9877  presentative phone: 651-430-6655  wo at-grades. 651-430-6655  the the compliance status of this system. No
Property address:	ason for inspection: Property Transfer pricer's phone: 925-984-9877  presentative phone: 651-430-6655  wo at-grades. 651-430-6655  the the compliance status of this system. No
Property address:11390 Kingsborough Trail, Cottage Grove, MN 55016 Read Property owner:	e the compliance status of this system. No nknown conditions during system construction,
Property address:	ason for inspection: Property Transfer presentative phone: 925-984-9877  presentative phone: 651-430-6655  as at-grades.  The compliance status of this system. No inknown conditions during system construction, ortification number: C5342/C9852
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Read Property owner: David & Susan Casper Owner's representative: Replaced regulatory authority: Washington County Represents or recommendations:  Certification  I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to un possible abuse of the system, inadequate maintenance, or future water usage.  Inspector name: Brian Humpal/Christopher Uebe Center of Midwest Sewer Services  Inspector signature: Washington County Required to determine to the system performance has been gathered to determine to the system performance has been nor can be made due to un possible abuse of the system, inadequate maintenance, or future water usage.  Inspector signature: Widwest Sewer Services	e the compliance status of this system. No nknown conditions during system construction, rtification number:
Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Read Property owner: David & Susan Casper Owner's representative: Replaced regulatory authority: Washington County Regulatory authority: Two pre-cast septic tanks, a pre-cast lift tank, and two Comments or recommendations:  Certification  I hereby certify that all the necessary information has been gathered to determine determination of future system performance has been nor can be made due to un possible abuse of the system, inadequate maintenance, or future water usage.  Inspector name: Brian Humpal/Christopher Uebe Cell Business name: Midwest Sewer Services  Inspector signature: Weep Required Attachments	e the compliance status of this system. No nknown conditions during system construction, retification number:

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Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016 Inspector initials/Date: 5/5/2020 BH ()

1.	lm	npact on Public Health – Co	mpliance co	omponent #1 of	f 5					
	Co	ompliance criteria:			Verification method(s):					
		estem discharge sewage to the bound surface.	☐ Yes ⊠ No		<ul><li>☑ Searched for surface outlet</li><li>☑ Searched for seeping in yard/backup in home</li></ul>					
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠	☑ No	<ul> <li>☑ Excessive ponding in soil system/D-boxes</li> <li>☐ Homeowner testimony (See Comments/Explanation)</li> <li>☐ "Black soil" above soil dispersal system</li> </ul>					
		rstem cause sewage backup into relling or establishment.	☐ Yes		System requires "emergency" pumping  Performed dye test					
		ny "yes" answer above indicate n Imminent Threat to Public Hea			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)					
		omments/Explanation: one of the above found.								
2.	Ta	ank Integrity — Compliance cor	nponent #2	of 5						
	Co	ompliance criteria:			Verification method(s):					
		rstem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes ⊠	☑ No	<ul><li>☑ Probed tank(s) bottom</li><li>☑ Examined construction records</li></ul>					
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			Examined Tank Integrity Form <i>(Attach)</i> Observed liquid level below operating depth					
	de	ewage tank(s) leak below their signed operating depth.	☐ Yes ☒ No		<ul> <li>☐ Examined empty (pumped) tanks(s)</li> <li>☐ Probed outside tank(s) for "black soil"</li> </ul>					
		yes, which sewage tank(s) leaks:			<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>					
		ny "yes" answer above indic ⁄stem is Failing to Protect Gr		er.						
		omments/Explanation:								
		wered underwater camera into tanks t pump and alarm were operational at								
3.	Ot	ther Compliance Conditions	5 – Complia	ance componen	nt #3 of 5					
	a.	Maintenance hole covers are damage	d, cracked, u	insecured, or appo	ear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown					
<ul> <li>b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unl *System is an imminent threat to public health and safety</li> <li>Explain:</li> </ul>										
										C.
		Explain:								

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Property address: 11390 Kingsborough Trail, Cottage Grove, MN 55016

Inspector initials/Date: 5/5/2020 **BH** 

4.	Soil Separation – Compliance compor	nent #4 of 5					
	Date of installation: 2013	Unknow	n	Verification method(s):			
	Shoreland/Wellhead protection/Food Beverage Lodging?			Soil observation does not expire. Probservations 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 ☐ N	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/A ☐ Other (See Comments/Explanation	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: Reviewed deisgn and permit record	s.		
	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 to Failing to Protect Groundwater.	he system	is	*May be reduced up to 15 percent if allowed by Local Ordinance.			
5.	Operating Permit and Nitrogen B	<b>MP*</b> – Com	npliance co	omponent #5 of 5 Not appl	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	P? [	]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	n does no	ot need to be completed.			
	Compliance criteria						
	a. Operating Permit number:						
	Have the Operating Permit requirements to	een met?	<u> </u>	☐ Yes ☐ No			
	b. Is the required nitrogen BMP in place and		ctioning?	☐ Yes ☐ No			
	Any "no" answer indicates Noncom		· · · · · · · · · · · · · · · ·				

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.

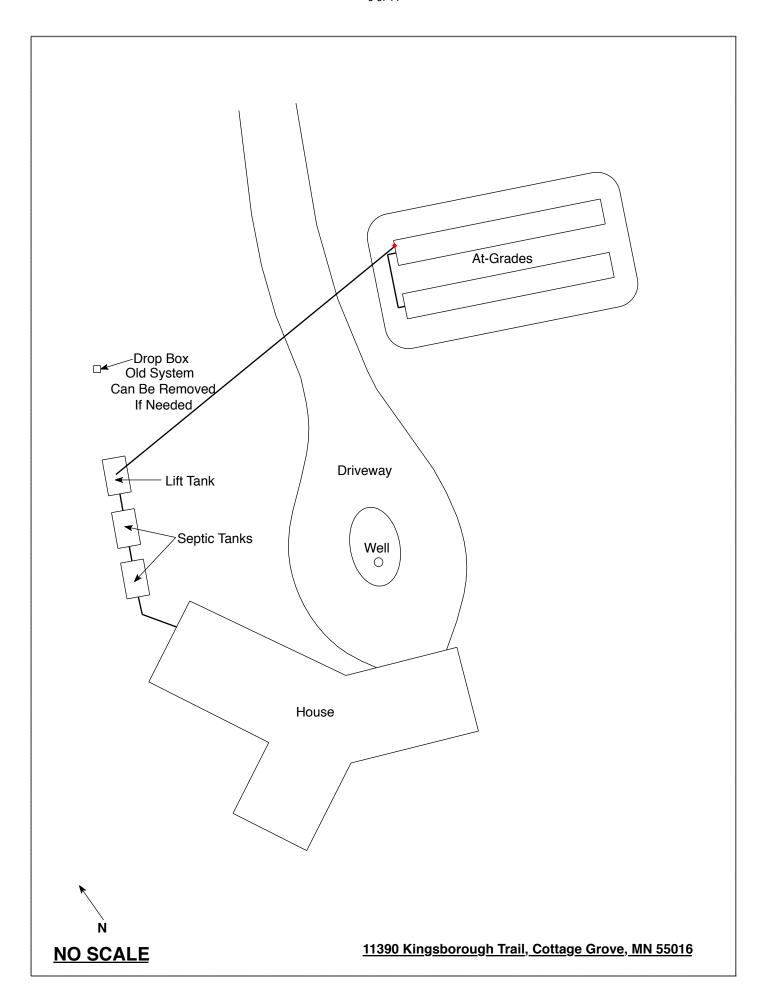
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## Midwest Sewer Testing Subsurface Sewage Treatment System Owner/Property Information

This informat	tion will be used for the purp	ose of conducting an I	MPCA Com	ipliance In	ispection.			
Date of Inspection: May	y 5, 2020			Time:	11:30 AM			
Property Address: 113	890 Kingsborough Tra	ail, Cottage Grov	ve, MN	Zip:	55016			
1 2	vid & Susan Casper			Phone:	: 925-984-9877			
Septic 2  Aerobic  Lift	Tank(s)Material  Fiberglass  Plastic  Metal  Concrete  Block  Other   At-gr	Soil Treatment Sys  Rock trench Gravelless trench Chamber trench Seepage bed Mound rade x 2	h	Alternati Experim Cesspool	her ive system ental system l system stem			
Are the tank maintenan								
performed through the in the ground surface to fa								
Year house built: 1995	Year septic in	nstalled: 2013	Tan	k size (g	gals.): 2-1000			
How long has seller ow		Number			iome?			
Number of bedrooms?	3 Are a	all floors drained		ty? Y				
Garbage disposal?		Whirlpool	bath?					
More than one system (								
Does this property have	e any footing drain tile	es connected to t	the septic	system	1?			
Are any buildings on th	, .				d to this system?			
Are there any additiona	l systems on this prop	perty serving oth	er buildi	ngs?				
Location of septic syste			ield - No	rtheast S	Side			
Location of water well					p well? Y			
Have you ever experient surfacing of sewage onto to the system?								
When was the system la	<u> </u>	Name of	f pumper	: Meyer	Sewer Services			
How often pumped in previous years?  Is system on a monitoring plan?								
Have you received notices from any government agency concerning this system?								
Is your property located								
Do you have any addition	onal information that	should be given	to the ne	ew own	er?			
I hereby certify that the above considered "non-compliant/fat local government unit within this report, that I/we are ultim by Inspect Minnesota and Mic	illing" per MPCA rules, the state of instately responsible for payer.	hat the inspector mu spection completion	ust by law 1. I also aş	submit a gree that	copy of this report to the unless otherwise noted in			

Date:

Owner/Occupant:



## U of MN Onsite Sewage Treatment Program Soil Boring Log

Client/ Address:	Legal Description/GPS: 35-027-21-13-0003 Date: 10 Jul 2013
11390 KINESBURDUEH	49°47'4,5944" 92°53'21.4134" 824NSL 14:20
Soil Parent Material(s): Till (circle all that apply)	utwash Lacustrine Alluvium Loess Organic Matter Bedrock SwifeRior
Landscape Position: Summit (circle one)	Shoulder Back/Side Slope Foot Slope Toe Slope
Vegetation: WODED. BUCKTHOPN	Soil Survey Map Unit(s): i848 Slope (%):
Weather conditions/Time of Day:	PM/SUNNY SPARTA WAMY SAND Slope Shape:

					Saturated Soil			
Depth (in)	Texture	Matrix	Mottle	Redox	Indicator(s)	I	Structure	I
		Color(s)	Color(s)	Kind(s)	(see back)	Shape	Grade	Consistence
0 -32"	5AND9 LOAM	10 yr 3/2		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firn Rigid
32-42"	5AN07 LOAM	10 YR 4/3		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
42-52"	LOAMY SAND	10 4R 614		Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
52"-	LIMESTON	E OBSTRUC	7100	Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
Comments:				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid

	VERSIT		OSTP Soil O	_	Log	The same of the same	v 11.3.28	Date Time	2/12/2013	
-							Landscape position		ide Slope	
		#REF!	0 Kingsborough Trail Cottage Grove, MN				Vegetation		wooded	
			#REF! ☑ Ontewash □ Lacustrine □ Loess			on #/Location:		B1	Slope% 4.0	
Soil parent materials (Check all that apply)		Till Allusium Sedrock Organic			Soil survey map units			Slope shape	Snow covered Cve/Lin	
	T 4	Coarse	e Matrix Color(s) Mottle Color(s)		Redox Kind(s)	Indicator(s)		I Structure	Consistence	
Depth (in)	Texture	Frag. %	Macrix Cotor(s)	Worker Color (5)	(,,	`	Shape	Grade	Consistence	
0 to 12	fine sand	5 to 8	10 YR 3/3				Granular	Weak	Friable	
12 to 24	very fine sand	5 to 8	10 YR 3/3				Granular	Weak	Friable	
24 to 35	very fine sand	5 to 8	10 YR 4/3				Granular	Structureless	Loose	
35 to 40	very fine	5 to 8	10 YR 6/4				Granular	Structureless	Loose	
40 to 42	very fine	5 to 8	7.5 YR 4/6	10YR 4/6 & 7.5YR 5/8	Concentrations, depletions, gleyed	S1	Granular	Structureless	Loose	
		<u> </u>								
Comments	5									
1	tify that I have	completed	d this work in accordanc	e with all applicable ord #REF!	linances, rules and	l laws.	C5182	#REF!	2/12/2013	

(Signature)

(Designer)

(Date)

(License #)

#### **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 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

## **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