1 of 10

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

P.O. Box 10853 White Be	ear Lake, MN 55110	Brian Humpal		
651-492-7550/Brian@Midwestsoiltesting.com MPCA Licensed Advanced Inspector				
SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT				
Date: May 21, 2018Time: 8:45 AMOwner: John Manteuffel				
Inspection Address: 14435 Manning Trl N, May Twp, 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 very old system (installed in 1987) consists of a pre-cast septic tank and a rock trench drainfield.

Although not compliance criteria, it should be noted that there is some effluent ponding in the dropboxes. This is an indicator that the drainfield may be at the end of its useful life.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils. Washington County issued sewage treatment permit #4455 for the installation of this septic system.

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 Brian Humpal

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

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA)

### System Status

System status on date (mm/dd/yyyy): <u>5/21/2018</u>

Compliant – Certificate of Compliance
(Valid for 3 years from report date, unless shorter time
frame outlined in Local Ordinance.)

#### 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: 1443	5 Manning Trl N, May Twp, MN 55082	Reason for inspection: Property Transfer
Property owner: John M	lateuffel	Owner's phone: 651-302-3878
or		
Owner's representative:		Representative phone:
Local regulatory authority:	Washington County	Regulatory authority phone: _651-430-6655
Brief system description:	A pre-cast septic tank and a rock trench drainfi	eld.
Commonto or recommond	ational	

Comments or recommendations:

Although not compliance criteria, it should be noted that there is some effluent ponding in the dropboxes. This is an indicator that the drainfield may be at the end of its useful life.

#### Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name:	Brian Humpal	Certification number:	L5342
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signature	: Brian Humpol	Phone number:	651-492-7550

#### **Necessary or Locally Required Attachments**

**Compliance Inspection Form** 

### Existing Subsurface Sewage Treatment Systems

(SSTS)

Doc Type: Compliance and Enforcement

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

Minnesota Pollution

Control Agency

For local tracking purposes:

🖄 Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3)

#### 1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🖾 No	<ul> <li>Searched for surface outlet</li> <li>Searched for seeping in yard/backup in home</li> </ul>
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	<ul> <li>Excessive ponding in soil system/D-boxes</li> <li>Homeowner testimony (See Comments/Explanation)</li> </ul>
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	<ul> <li>Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>
Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

#### Comments/Explanation:

Although not compliance criteria, it should be noted that there is some effluent ponding in the dropboxes. This is an indicator that the drainfield may be at the end of its useful life.

#### 2. Tank Integrity – Compliance component #2 of 5

#### Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes	🛛 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		
Sewage tank(s) leak below their designed operating depth.	🗌 Yes	🛛 No
If yes, which sewage tank(s) leaks:		

## Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

Lowered underwater camera into tank - baffles and tank walls OK.

#### Verification method(s):

Probed tank(s) bottom
 Examined construction records
 Examined Tank Integrity Form (Attach)
 Observed liquid level below operating depth
 Examined empty (pumped) tanks(s)
 Probed outside tank(s) for "black soil"
 Unable to verify (See Comments/Explanation)
 Other methods not listed (See Comments/Explanation)

#### 3. Other Compliance Conditions - Compliance component #3 of 5

а	Maintenance hole covers are damaged	cracked unsecured	or appear to structurally un	sound $\Box Ves^*$	
а.	Intallite hance hole covers are damaged	i, clackeu, uliseculeu,	or appear to structurally un		

b. Other issues (*electrical hazards, etc.*) to immediately and adversely impact public health or safety.  $\Box$  Yes\*  $\boxtimes$  No  $\Box$  Unknown \*System is an imminent threat to public health and safety

Explain:

c. System is non-protective of ground water for other conditions as determined by inspector □ Yes\* ⊠ No \*System is failing to protect groundwater

Explain:

#### **4. Soil Separation** – Compliance component #4 of 5

Date of installation: 1987		own	Verification method(s):				
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes	🛛 No	Soil observation does not expire. Previo observations by two independent partie				
Compliance criteria:	1		unless site conditions have been altere				
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	☐ Yes	🛛 No	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (Attach boring logs</li> <li>Two previous verifications (Attach boring logs)</li> <li>Not applicable (Holding tank(s) no drainfield)</li> </ul>			Conducted soil observation(s) (Attach bol	oring logs)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			<ul> <li>Unable to verify (See Comments/Exp</li> <li>Other (See Comments/Explanation)</li> </ul>				
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	☐ Yes	🗌 No	Comments/Explanation:				
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*							
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	🗌 Yes	🗌 No	Indicate depths of elevations				
or V systems built under 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 Failing to Protect Groundwater.	he syste	em is	*May be reduced up to 15 percent if all Ordinance.	owed by Local			
Operating Permit and Nitrogen B	<b>MP*</b> – Co	omplianc	e component #5 of 5 🛛 🖂 Not applica	able			
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	1P?	🗌 Yes	No If "yes", B below is required				
BMP=Best Management Practice(s) specif	fied in the s	system de	sign				
If the answer to both questions is "no",	this sect	tion does	s not need to be completed.				
Compliance criteria							

	Operating Permit number: Have the Operating Permit requirements been met?	🗌 Yes 🗌 No
b.	Is the required nitrogen BMP in place and properly functioning?	🗌 Yes 🗌 No

#### Any "no" answer indicates Noncompliance.

5.

**Upgrade Requirements** (*Minn. Stat.* § 115.55) *An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.* 

## WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 4455

Owner       Today       M. MANTEDIFEC         Property Description       A.S. Nova       Since 30       May Top       Status         Property Address       IAIS       Manning       Trail       N.       Status         Property Address       IAIS       Manning       Trail       N.       Status         Use of Building:       Math       Res       Flow Rate:       4D       Math       Percolation Rate:       Status         Septic Tank       Ital       Cal       Liquid Capacity       Lift Station (if needed)       Cal       Cal         Type of System:       Ital       AMA       MARA       Man       Man       Math       Cal         Absorption Trench – Square Feet       Mo       Lineal Feet       Status       Inches       Inches         Depth of Rock Below Lines       Ital       Inches, Above Lines       Inches       Inches         Recommended Number of Lines       Ital       Status       Inches, Maximum Length of Individual Line is 100 Fee         Ainimum Spacing of Lines       Ital       Ital       Ital       Math       Math         Image: Additions       Ital       Ital       Ital       Math       Math       Math         Ainimum Spacing of Lines <td< th=""><th></th><th>Installation Must Be Made By the Building Offical Bofore Any Portion Contact Planning Department, 779-5444, 24 Hour Notice Required</th><th>of System is Cov</th></td<>		Installation Must Be Made By the Building Offical Bofore Any Portion Contact Planning Department, 779-5444, 24 Hour Notice Required	of System is Cov
Property Description       A. W.A. Src 30       Ming Trant       A. State         Property Address       IMAS       Maning Trant       A. State       State         Use of Building:       Image: Ima	Owner	Tallas as as is	·
Use of Building: Mole Milds Res       Flow Rate:       40 milding: Mole Milds Res       Percolation Rate:       9 milding: Mole Milds Res         Septic Tank       100       Gal. Liquid Capacity       Lift Station (if needed)       100         Type of System:       2010       Milds AMIL Milds Milds Milds Milds       100       100       100         Absorption Trench – Square Feet       Milds       Milds Milds Milds       100       100       100         Depth of Rock Below Lines       10       Lineal Feet       200       Width       110         Depth of Trench From Existing Grade – Minimum       Inches, Maximum Length of Individual Line is 100 Fee       100       100         Recommended Number of Lines       12 CO Ft. Center to Center       100       100       100         Minimum Spacing of Lines       72       Ft. Center to Center       100       100         Predictions       10 Milds       10 Milds       100       100       100         PM d       May       10 Milds       10 Milds       100       100       100       100         ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application or offinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any in the person to whom it is granted, and his agents, employees and workmen s	Property Descr	iption A 35 NW 4 Sec 30 May Two	
Section Building: Article Influtor IES       Flow Rate:	Property Addres	ss 1435 Manning Trail N. Stillender	- Tauf
Type of System:       Image: Image: System:       Image: Image: System:       System:       Image: System:       <	and of printing	The Milly the Flow D. Jan Call	
Type of System:       Image: Image: System:       Image: Image: System:       System:       Image: System:       <	Septic Tank	Gal. Liquid Capacity Percolati	on Rate: <u>5</u> n
Absorption Trench — Square Feet       Mo       Lineal Feet       Sign       Width       At         Depth of Rock Below Lines       Inches,       Above Lines       Inches       Inches         Depth of Trench From Existing Grade — Minimum       Inches,       Maximum       Inches         Recommended Number of Lines       ABOVE Lines       Inches,       Maximum       Inches         Alinimum Spacing of Lines       Ft. Center to Center       Sign       Model And       Model And       Model And         Bipecial Conditions       Tool Minimum And And       Model And       Model And       Model And       Model And       Model And         Bipecial Conditions       Tool Minimum And And       Model And	Type of System:	Lift Station (if needed)	<u>201</u>
Depth of Trench From Existing Grade – Minimum	Absorption Trend	ch - Square Feet	
Depth of Trench From Existing Grade – Minimum	Depth of Rock B	elow Lines Inches Widt	h///
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Alinimum Spacing of Lines       Fit. Center to Center         special Conditions       The difference         IP difference       Main in the stand of the	Recommended N	umber of Lines A & Con Acc. Inches, Maximum	172Inche
Period Conditions The first system in the work of the first system of the first syste	Ainimum Spacing	of Lines	I Line is 100 Feet
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application the minimum specifications shown above and per attached site plan. This permit is granted upon express con- tion that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any d ordinance, and permit, shall be void if work is not commenced within six (6) months. INSTALLER MUST HOLD CURRENT/SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Droved:		The first Ft. Center to Center	
ERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application the minimum specifications shown above and per attached site plan. This permit is granted upon express con- tion that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any d ordinance, and permit, shall be void if work is not commenced within six (6) months. INSTALLER MUST HOLD CURRENT/SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY. Droved:		s watch system in alles higher and back	e set e al
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Distribution. White-Applicant Canary-File

FEE: \$ 75.0

## Inspect Minnesota & Midwest Soil Testing

#### Subsurface Sewage Treatment System Owner/Property Information

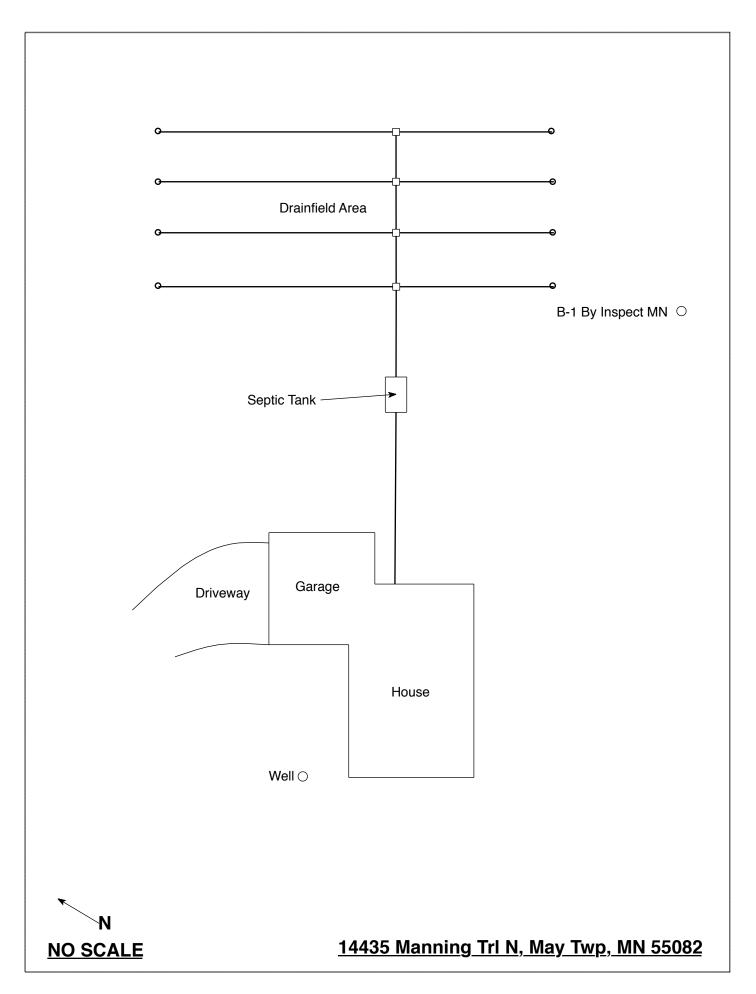
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: May 21, 2018	Time: 8:45 AM				
Property Address: 14435 Manning Trl N, May Tw	zp, MN Zip: 55082				
Property Owner: John Manteuffel	Phone: 651-302-3878				
1 2	eatment System Other				
	trench Alternative system				
	elless trench Experimental system				
	nber trench Cesspool system				
☐ Holding ☐Concrete ☐Seep ☐ Other: ☐Block ☐Mou	age bed Other system nd				
Other At-g					
Are the tank maintenance covers accessible? $\Box$ Ye	es 🖂 No *If no. proper maintenance must be				
performed through the maintenance holes. Mainten					
the ground surface to facilitate access and proper m					
V 1 1 14 1007 V 41 1 1					
Year house built: 1987 Year septic installed	: 1987 Tank size (gals.): 1250 Number of residents in home?				
How long has seller owned the property?Number of bedrooms? 4Are all floor					
	rs drained by gravity? Y /hirlpool bath?				
More than one system (laundry, etc.)?					
Does this property have any footing drain tiles com	pacted to the centic system? Unknown				
Does this property have any rooting train thes com	letted to the septie system? Officiowi				
Are any buildings on this property such as garages or out-buildings connected to this system?					
The any bundings on this property such as garages	or our oundings connected to this system?				
Are there any additional systems on this property se	erving other buildings?				
	6 6				
Location of septic system on lot? Northeast Side					
Location of water well on lot? West Side	Is the 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 ov					
to the system? If yes, explain:					
When was the system last pumped? 2016Name of pumper: Pinky's Sewer Service					
How often pumped in previous years?	Is system on a monitoring plan?				
Have you received notices from any government ag					
Is your property located in a shoreland managemen					
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/Occupant:

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### Log Of Soil Borings

Location of Project: 14435 Manning Trl N, May Twp, MN 55083					
Borings Made By: Inspect Minnesota			Date:	5/21/18	
		Hand/Bucket	Classi	fication System:	USDA
Bo	pring Number:			Boring Number:	
Surface Elevation of Boring	Same grou	und surface as last nfield trench	Surface Elevation o Boring		
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	Soils Er	ncountered
0-14 14-32 32-45 7	7.5YR 4 10YR 5/3	/3 Clay Loam /4 Clay Loam Silt Loam With 6/2, & 5YR 4/6 Redox			
32" De	pth To End Of B	oring Or Redox		Depth To End Of Bo	oring Or Redox
Same Ele	evation Of Borin	g Relative To System	Elevation Of Boring Relative To System		Relative To System
	pth To Bottom ( Separation	Df Distribution Media		Depth To Bottom C Df Separation	f Distribution Media
En	d Of Boring At:	45"		End Of Boring At:	
	dox Present At:	32"		Redox Present At:	
	ater Present At:	None		Water Present At:	

Bottom Of Distribution Medium At: 33 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 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.

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# Subsurface Sewage Treatment Systems Non-transferable Business License

## Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

## Specialty Area(s):

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

## **Designated Certified Individual(s):**

Cert #	Name	<b>Certification Expires:</b>
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	

### MINNESOTA POLLUTION CONTROL AGENCY

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

Charles K Thompson, Supervisor Certification & Training Unit