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

P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal

MPCA Licensed Advanced Inspector

#### SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

**Inspection Address:** 5555 Osgood Ave S, Afton, MN 55001

#### REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the previous compliance inspection from 2015 on file at Washington County. This very old system (installed in 1975) 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.

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

Inspect Minnesota and Midwest Soil Testing 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. Inspect Minnesota and Midwest Soil Testing 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.

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.  Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	For local tracking purposes:
System Status	
System status on date (mm/dd/yyyy):5/15/2018	
	npliant – Notice of Noncompliance rade 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 threat threat to 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	eat to public health and safety er tect groundwater
☐ Operating permit/monitoring plan requirements (Compliance Component #	‡5) – Noncompliant
	‡5) – Noncompliant
☐ Operating permit/monitoring plan requirements (Compliance Component #	
Operating permit/monitoring plan requirements (Compliance Component #  Property Information Parcel ID# or Sec/Twp/Range	ge:
□ Operating permit/monitoring plan requirements (Compliance Component #  Property Information Parcel ID# or Sec/Twp/Range Property address:5555 Osgood Ave S, Afton, MN 55001 Reason for	ge:
□ Operating permit/monitoring plan requirements (Compliance Component #  Property Information Parcel ID# or Sec/Twp/Range Property address: 5555 Osgood Ave S, Afton, MN 55001 Reason for Property owner: Alex Babinski Owner's property owner:	ge: or inspection:Property Transfer
Property Information Property address: 5555 Osgood Ave S, Afton, MN 55001 Property owner: Alex Babinski Owner's representative: Represent	ge:
Property Information Property address: 5555 Osgood Ave S, Afton, MN 55001 Property owner: Alex Babinski Owner's por Owner's representative: Representation Regulatory authority: Washington County  Property Information Parcel ID# or Sec/Twp/Range Property address: 5555 Osgood Ave S, Afton, MN 55001 Reason for Owner's Representative: Representative: Regulatory authority: Washington County	ge: or inspection: Property Transfer ohone: 612-425-7880
Property Information Property address: 5555 Osgood Ave S, Afton, MN 55001 Property owner: Alex Babinski Owner's por Owner's representative: Local regulatory authority: Washington County Brief system description:  Property Information Parcel ID# or Sec/Twp/Range Reason for Owner's Representative Regulatory Regulatory Regulatory A pre-cast septic tank and a rock trench drainfield.	ge:
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Property Information Property address: 5555 Osgood Ave S, Afton, MN 55001 Property owner: Alex Babinski Owner's representative: Corruption  Reason for  Owner's representative: Corruption  Representative: Corruption  Resultation  Regulator	ge:
Property Information Property address: 5555 Osgood Ave S, Afton, MN 55001 Property owner: Alex Babinski Owner's representative: Local regulatory authority: Washington County Brief system description: A pre-cast septic tank and a rock trench drainfield. Comments or recommendations:	ge:
Property Information Property address: _5555 Osgood Ave S, Afton, MN 55001 Property owner: _Alex Babinski Owner's por Owner's representative: Representative: Regulator Brief system description: _A pre-cast septic tank and a rock trench drainfield.  Comments or recommendations:  Certification I hereby certify that all the necessary information has been gathered to determine the oddetermination of future system performance has been nor can be made due to unknown.	ge:
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Property Information Property address: _5555 Osgood Ave S, Afton, MN 55001 Property owner: _Alex Babinski Owner's representative: _Representative: _Regulator Brief system description: _A pre-cast septic tank and a rock trench drainfield.  Comments or recommendations:  Certification I hereby certify that all the necessary information has been gathered to determine the oddermination 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 Certificating  Parcel ID# or Sec/Twp/Range Reason for Owner's property waters of the system formation of the system and the system and a rock trench drainfield.  Certification  Certification  Certification	ge:
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Property address: 5555 Osgood Ave S, Afton, MN 55001

Inspector initials/Date: 5/15/2018

1.	lm	npact on Public Health – Cor	npliance	component #1 o	f 5			
	Compliance criteria:				Verification method(s):			
		rstem discharge sewage to the bund 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> </ul>			
		rstem cause sewage backup into relling 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>			
		ny "yes" answer above indicates I Imminent Threat to Public Heal		☐ 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 com	nponent ‡	#2 of 5				
	Co	ompliance criteria:			Verification method(s):			
		stem 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.			<ul><li>Examined Tank Integrity Form (Attach)</li><li>Observed liquid level below operating depth</li></ul>			
	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>			
	If yes, which sewage tank(s) leaks:				☐ Unable to verify (See Comments/Explanation)			
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.				Other methods not listed (See Comments/Explanation)			
		Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls OK.						
3.	01	ther Compliance Conditions	– Comp	liance compone	nt #3 of 5			
	a.	Maintenance hole covers are damaged	d, cracked	, unsecured, or app	ear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown			
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Ur *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:						

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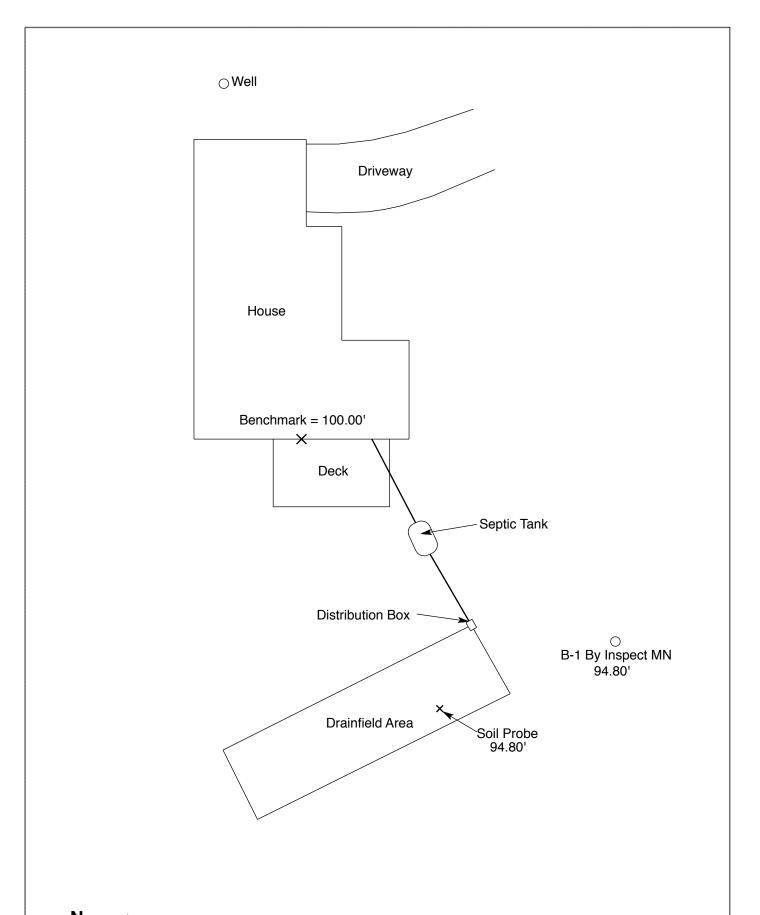
Property address: 5555 Osgood Ave S, Afton, MN 55001

Inspector initials/Date: 5/15/2018

4.	Soil Separation — Compliance compor	ieiii #4 C	JI J				
	Date of installation: 1975	Unkr	nown	Ver	ification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?		☐ No		Soil observation does not expire. Previous s		
	Compliance criteria:			unle	observations by two independent parties are sufficient, unless site conditions have been altered or local		
	For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	☐ Yes	□ No		requirements differ.   ☐ Conducted soil observation(s) (Attach boring to Two previous verifications (Attach boring to 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 Com Other (See Comments/Expl		
	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		nments/Explanation: iewed previous compliand	ce inspection from	2015.
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*						
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No		Ind	icate depths of elevat	ions	
	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. E	Sottom of distribution media	See Atta Boring L	
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Periodically saturated soil/bed	drock	
				DF	Required compliance separat	tion*	
	Any "no" answer above indicates the system is Failing to Protect Groundwater.				y be reduced up to 15 per dinance.	rcent if allowed by	Local
	· ·			_			
5.	Operating Permit and Nitrogen B	<b>MP*</b> – 0	Compliand	ce compo	nent #5 of 5 🛛 No	t applicable	
	Is the system operated under an Operating Per	mit?	☐ Yes	⊠ No	If "yes", A below is requ	uired	
	Is the system required to employ a Nitrogen BM	IP?	☐ Yes	⊠ No	If "yes", B below is requ	uired	
	BMP=Best Management Practice(s) specified in the system design						
	If the answer to both questions is "no", this section does not need to be completed.						
	Compliance criteria			ı			
	a. Operating Permit number:     Have the Operating Permit requirements been met?				☐ Yes ☐ No		
				L			
	b. Is the required nitrogen BMP in place and properly functioning?				☐ Yes ☐ No		

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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N <del>→</del>

5555 Osgood Ave S, Afton, MN 55001

# 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 15, 2018	Time: 10:45 AM				
Property Address: 5555 Osgood Ave S, Afton, MN	Zip: 55001				
Property Owner: Alex Babinski	Phone: 612-425-7880				
Tank(s)       Tank(s)Material       Soil Treatment System            ☐ Septic 1         ☐ Fiberglass           ☐ Rock trench             ☐ Aerobic         ☐ Lift         ☐ Metal         ☐ Holding         ☐ Concrete         ☐ Seepage bed         ☐ Other:         ☐ Block         ☐ Mound             ☐ Other:         ☐ 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 co					
the ground surface to facilitate access and proper maintenance of	of the system.				
Year house built: 1975 Year septic installed: 1975	Tank size (gals.): 1200				
How long has seller owned the property? Number of					
Number of bedrooms? 3 Are all floors drained by	<u> </u>				
Garbage disposal? N Whirlpool bat	h? N				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected to the	septic system? N				
Are any buildings on this property such as garages or out-buildi	Are any buildings on this property such as garages or out-buildings connected to this system? N				
Are there any additional systems on this property serving other	buildings? N				
Location of septic system on lot? East Side					
	the well a deep well? Y				
Have you ever experienced any problems with the system such surfacing of sewage onto the ground, septic tank overflowing, e to the system?  If yes, explain:					
When was the system last pumped? 2015 Name of pu	ımper:				
	em on a monitoring plan?				
Have you received notices from any government agency concerning this system?					
Is your property located in a shoreland management area? Y					
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 knowle considered "non-compliant/failing" per MPCA rules, that the inspector must local government unit within 15 days of the date of inspection completion.	by law submit a copy of this report to the				

Owner/Occupant: Date:

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.

#### **Log Of Soil Borings**

Locati	on of Project:	1161 Manning Ave S	S, Afton, M	N 55001	
Borings Made By: Inspect Minnesota				Date:	5/15/18
Auger Used: Hand/Bucket		Classification System: USDA		USDA	
Во	ring Number:	1		Boring Number:	
Surface		94.80'	Surface		
Elevation of	Benchmark	= 100.00' at rear	Elevation of		
Boring	dooı	threshold	Boring		
Depth In	Soils Er	ncountered	Depth In	Soils E	ncountered
Inches			Inches		
0-16 16-27 27-38 38-72	10YR 10YR 10YR 4/4 Refus	Loamy Sand 4/3 Loam 3/4 Loam Medium Sand sal At 72" edrock			
91.46' Elevation To Bottom Of Distribution Media				Of Distribution Media	
-88.80' Depth To Redox Or End Of Boring			Depth To Redox		
=2.66'/32" Of Separation			Of Separation		
End	d Of Boring At:	72"		End Of Boring At:	
	ock Present At:	72"		Redox Present At:	
Standing Water Present At: None			Standing	Water Present At:	

#### **Log Of Soil Borings**

Loca	ation of Project:	5555 Osgood Ave S	, Afton, MN	N 55001		
Borings Made By: Inspect Minnesota				Date:	8/31/15	
Auger Used: Hand/Bucket		Class	ification System:	USDA		
Boring Number: 1			Boring Number:			
Surface		94.10'	Surface			
Elevation o	of Benchmark =	= 100.00' backdoor	Elevation	of		
Boring	th	nreshold	Boring			
Depth In	Soils Fr	ncountered	Depth In	Soils F	Soils Encountered	
Inches	-		Inches	20113 21	- Incounted ou	
0-11 11-20		2.5/2 Loam 4/3 Loam				
20-31		Sandy Loam				
31-44		/3 Silt Loam				
44-55	-	3 Clay Loam				
55-77		Clay Loam With lium Sand Pockets				
77-80	-	Clay Loam With				
// 55		one Pieces				
91.47' E	levation To Botton	o Of Distribution Modia		Flavation To Bottom	Of Distribution Media	
91.47' Elevation To Bottom Of Distribution Media -87.43' Depth To Redox Or End Of Boring			Depth To Redox Or			
≥4.04'/48" Of Separation			Of Separation			
	end Of Boring At:	80"		End Of Boring At:		
Redox Present At: None				Redox Present At:		
Standing Water Present At: None			Standing	Water Present At:		

#### **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.

# Subsurface Sewage Treatment Systems Non-transferable Business License

# Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

es:

## Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

### Designated Certified Individual(s):

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



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

Charles K Thompson, Supervisor Certification & Training Unit