1 of 11

# **Inspect Minnesota & Midwest Soil Testing**

P.O. Box 10853 White B	ear Lake, MN 55110	Brian Humpal					
651-492-7550/Brian@Mi	dwestsoiltesting.com	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAG	E TREATMENT SYSTEM	(SSTS) COMPLIANCE REPORT					
Date: July 9, 2018	<b>Time:</b> 8:45 AM	<b>Owner:</b> Mary Robinson					
Inspection Address: 16842	Inspection Address: 16842 Ingersoll Ave N, Hugo, MN 55038						

#### **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 2015, which were on file at Washington County. This older system (installed in 1992) consists of a pre-cast septic tank, a pre-cast lift tank, and a mound.

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.

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).

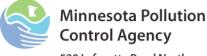
Please contact me should you have any questions.

Christopher Uebe

Brian Humpol

Brian Humpal

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

# **Compliance Inspection Form**

#### **Existing Subsurface Sewage Treatment Systems** (SSTS)

Doc Type: Compliance and Enforcement

Page 1 of 3

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA)	
requirements and attached forms – additional local requirements may also apply.	

For local tracking purposes:

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

#### System Status

System status on date (mm/dd/yyyy): 7/9/2018

#### Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

#### Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3)

#### 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: 16842	Ingersoll Ave N, Hugo, MN 55038	Reason for inspection: Property Transfer
Property owner: Mary R	obinson	Owner's phone: 651-955-6276
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, a pre-cast lift tank,	and a mound.
Commonte or recommond	tions	

Comments or recommendations:

#### Certification

wq-wwists4-31 • 1/24/12

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 H	umpal/Christo	pher Uebe	Э			Certification r	number:	C5342/C9852	
Business name:	Inspect	Minnesota, N	lidwest So	il Testing			License r	number:	L2896	
Inspector signatu	re:	Brian ;	Humpa	How	11	l	Phone r	number:	651-492-7550	
Necessary or	Locall	y Require	d Attac	hment	S					
Soil boring lo	ogs	☐ Syst	em/As-bui	lt drawing	9		Forms per loca	al ordinan	се	
Other inform	nation (list	): Report S	Summary, F	Property	Inforn	nation, Dis	claimer, Licens	е		
www.pca.state.mn.	.us •	651-296-6300	• 800-6	57-3864	•	TTY 651-2	82-5332 or 800-6	657-3864	<ul> <li>Available in alternat</li> </ul>	ive formats

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

# Compliance criteria: System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters. System cause sewage backup into dwelling or establishment. Any "yes" answer above indicates the system is

an Imminent Threat to Public Health and Safety.

Comments/Explanation:

None of the above found.

#### Verification method(s):

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

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

Compliance criteria:		Verification method(s):
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🖾 No	<ul><li>Probed tank(s) bottom</li><li>Examined construction records</li></ul>
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		<ul> <li>Examined Tank Integrity Form (Attach)</li> <li>Observed liquid level below operating depth</li> </ul>
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🛛 No	Examined empty (pumped) tanks(s)
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
Any "yes" answer above indic system is Failing to Protect G		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

Comments/Explanation:

Lowered underwater camera into tanks - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection.

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

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.	□ Yes*	🖾 No	🗌 Unknown

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: 1992	Unknown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Pre		
Compliance criteria:		observations by two independent parties are suffic 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: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	🛛 Yes 🗌 No	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (A</li> <li>Two previous verifications (Attact</li> <li>Not applicable (Holding tank(s), no</li> <li>Unable to verify (See Comments/Explanation)</li> <li>Other (See Comments/Explanation)</li> </ul>	h boring logs) o drainfield) Explanation)	
Non-performance systems built April 1, 1996, or later or for non-performance	🗌 Yes 🗌 No	Comments/Explanation:		
systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed previous compliance inspection from 201 Reviewed design and permit records.		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	□ Yes □ No	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 the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local	
Operating Permit and Nitrogen B/	<b>WP*</b> – Compliance	e component #5 of 5 🛛 🗌 Not appl	icable	
s the system operated under an Operating Perr	nit? 🗌 Yes [	No If "yes", A below is required		
a the evotom required to employ a Nitragan DM	P? 🗌 Yes [	□ No If "yes", B below is required		
s the system required to employ a Nitrogen BM				

#### **Compliance criteria**

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

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

**Upgrade Requirements** (*Minn. Stat.* § 115.55) *An imminent threat to public health and safety* (*ITPHS*) *must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, 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.* 

# Inspect Minnesota & Midwest Soil Testing

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

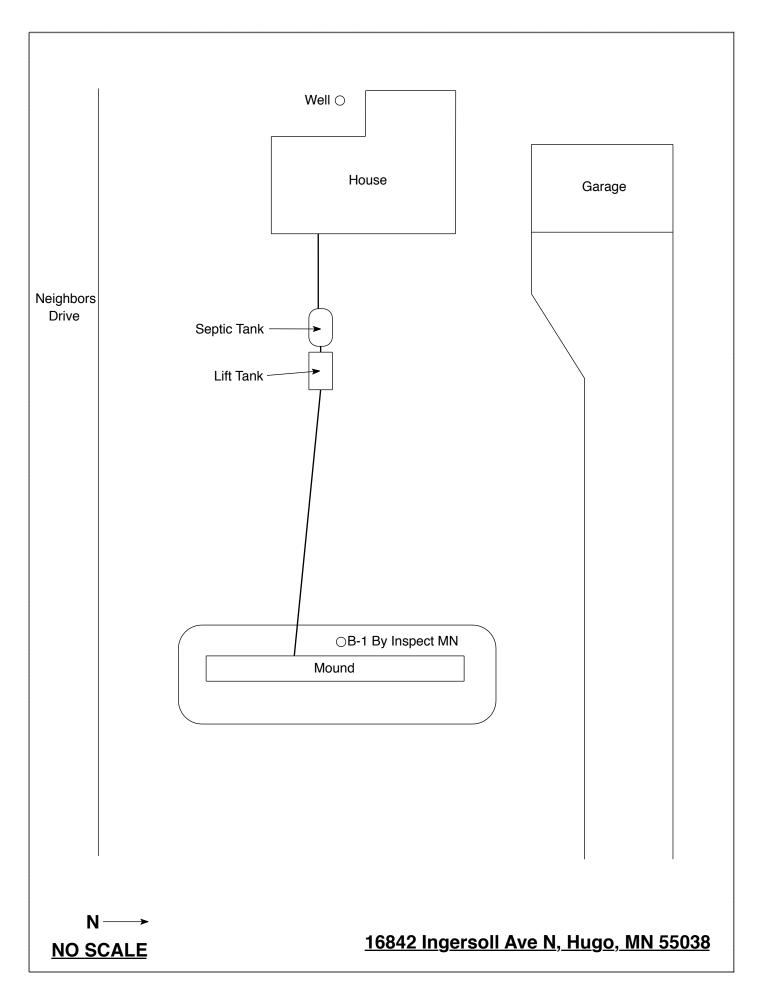
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: July 9, 2018	Time: 8:45 AM
Property Address: 16842 Ingersoll Ave N, Hugo, MN	Zip: 55038
Property Owner: Mary Robinson	Phone: 651-955-6276
Troperty Owner:         Wary Roomson           Tank(s)         Tank(s)Material         Soil Treatm	
Septic 1 Fiberglass Rock tree	Alternative system
Aerobic Plastic Gravelle	
Lift Metal Chamber Holding Concrete Seepage	
Other: Block Mound	
Other At-grade	
Are the tank maintenance covers accessible?  Yes	$\boxtimes$ No *If no, proper maintenance must be
performed through the maintenance holes. Maintenance	e hole covers should be made accessible to
the ground surface to facilitate access and proper main	tenance of the system.
Year house built: 1972 Year septic installed: 19	92 Tank size (gals.): 1000
How long has seller owned the property? 1991 No.	umber of residents in home?
	rained by gravity? Y
	lpool bath? N
More than one system (laundry, etc.)? N	
Does this property have any footing drain tiles connect	ed to the septic system? N
Are any buildings on this property such as garages or c	ut-buildings connected to this system? N
Are any bundings on this property such as garages of c	ut-buildings connected to this system? Iv
Are there any additional systems on this property servi	ng other buildings? N
Location of septic system on lot? East Side	
Location of water well on lot? West Side	Is the well a deep well? Y
Have you ever experienced any problems with the syst	
surfacing of sewage onto the ground, septic tank overfl	owing, etc.; or have any repairs been made
to the system? If yes, explain:	
When was the system last pumped? 2016 Na	ame of pumper: Smilie's Sewer Service
How often pumped in previous years? Every 3	Is system on a monitoring plan? N
Have you received notices from any government agend	
Is your property located in a shoreland management ar	ea? N
Do you have any additional information that should be	given to the new owner? N
	<u> </u>

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

Loc	ation of Project:	16842 Ingersoll Ave	N. Huao. M	N 55038	
		Inspect Minnesota	,	Date:	7/9/18
		Hand/Bucket	Classi	fication System:	USDA
	Boring Number:	1		Boring Number:	
Surface			Surface		
Elevation	of		Elevation of	of	
Boring			Boring		
Depth In	Soils E	ncountered	Depth In	Soils En	countered
Inches 0-8	7 5YR	2.5/2 Loam	Inches		
8-11		/4 Clay Loam			
11-30		Clay Loam With			
	10YR 6/2 8	k 5YR 5/8 Redox			
	Boring Adjacen	t To Mound Rock Bed			
0-40		d Sand/Fill			
40-43	Origi	nal Topsoil			
	40"-20" (Botton	n Of Rock Bed) = 20"			
		Below Rock Bed			
	Depth to Redox			Depth To End Of Bo	
+20"	Amount Of Sand B	elow Rock Bed	E	Elevation Of Boring	Relative To System
=31"	Of Separation				of Distribution Media
l				Of Separation	
	End Of Boring At:	30"		End Of Boring At:	
	Redox Present At:	11"		Redox Present At:	
Standing	Water Present At:	None	Standing	Water Present At:	

Bottom Of Distribution Medium At: 20 Inches

	ation of Project:	16842 Ingersoll Ave	N. Huao, M	N 55038	
		Inspect Minnesota	,	Date:	5/18/15
	Auger Used: Hand/Bucket			ification System:	USDA
	Boring Number:	1		Boring Number:	
Surface Elevation o Boring	of		Surface Elevation Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	countered
0-8 8-11 11-30	10YR 4, 10YR 4/4	2.5/2 Loam /4 Clay Loam Clay Loam With & 5YR 5/8 Redox			
<u>    11"    [</u>	Depth To End Of B	oring Or Redox			
+18" 5	Sand Below Mound	d Rock Bed			
=29" (	Of Separation				
	End Of Boring At:			End Of Boring At:	
	Redox Present At:	11"		Redox Present At:	
Standing \	Water Present At:	24" At 15 Minutes	Standing	Water Present At:	

Bottom Of Distribution Medium At: 20 Inches

JOB PRIL تريي ليكر 1 - 1 - 1 - 1 INGERLERE AVE. 16842 here to a

BORING LOG . 9 of 11

DATE 8-28-91

BOREHOLE DIAMETER 4-3' - BUG AUGAR

EPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	HOLE #6
		TOF SOL	TOP SOIL	TOP COLL		
	-JANDY <u>CLAY</u> - 	BROWN, JANDY -	BADWIN, SHADON	MOSTURE		
	_ (Fill) -	- CLAY -	CLAI	CLAY AND		+
1 -+			ELOWN CLAY	- 404 m F142		
	- Влашиз Долип — — — — —		سيرين في مرجدانين			
		KON STAINING	SAND LAVEFS	- LIGHT IF. OF -		
2	ROID STRIFFICE -	ELOWAR SHIPPY -	THEFLED			· · · ·
-+	- GRAY 2LAY -	- CLAY -	ERAWA 2047			<u>+</u> ↓ .
-+		BROWIJ CLAY	ELAN CLAY -	BLACK DIAT		
3 —	BROWN CLAY -	WITH SAND _				
J +	HEAUY MOTTLE -	LAYERS - MOTLED	- CONT SAND -	•====···=		
-		GRAICLAY -	<u> </u>	GRAY BLAY-	<u></u>	<u>+</u>
_ +	-	SAND LABAT -	OBSTRUCTION	Triot = EA		÷
4			Stop			
_	-	+ -	+	Som wer		+
5	WATER IN THE BH			ANL STICK		+
+	Stop _	- STOP -	+	STOP _		+-
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	_ IRON 22"	THON 18"	MORLEP 20"			
8	_BELOW GRADE	BELOW GRADE				
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## **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

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# 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