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

Date: September 18, 2019 **Time:** 11:00 AM **Owner:** Frank Roth

Inspection Address: 21820 Lofton Ave, Scandia, MN 55073

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 and a rock trench drainfield.

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.

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 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 (MF requirements 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	er
System Status	
System status on date (mm/dd/yyyy): _9/18/2019	
	compliant – Notice of Noncompliance 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) – Immined Tank Integrity (Compliance Component #2) – Failing to protect ground Other Compliance Conditions (Compliance Component #3) – Failing Soil Separation (Compliance Component #4) – Failing to protect ground Operating permit/monitoring plan requirements (Compliance Component	nt threat to public health and safety ndwater to protect groundwater undwater
Property Information Parcel ID# or Sec/Twp	/Range:
Property address: 21820 Lofton Ave, Scandia, MN 55073 Rea	/Range:son for inspection: Property Transferner's phone:
Property address: 21820 Lofton Ave, Scandia, MN 55073 Rea Property owner: Frank Roth Own or	son for inspection: Property Transfer ner's phone:
Property address: 21820 Lofton Ave, Scandia, MN 55073 Rea Property owner: Frank Roth Own Or Owner's representative: Rep	son for inspection: Property Transfer ner's phone: resentative phone: ulatory authority phone: 651-430-6655
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Property address: 21820 Lofton Ave, Scandia, MN 55073 Rea Property owner: Frank Roth Own Or Owner's representative: Rep Local regulatory authority: Washington County Reg Brief system description: Two pre-cast septic tanks and a rock trench drainfield Comments or recommendations:	son for inspection: Property Transfer ner's phone: resentative phone: ulatory authority phone: 651-430-6655
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www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 1 of 3

Property address: 21820 Lofton Ave, Scandia, MN 55073

Inspector initials/Date: 9/18/2019 **24**

1.	Impact on Public Health - Compliance component #1 of 5			
2.	Sygror Sygor Sydw An An Co	estem discharge sewage to the bund surface. Instem discharge sewage to drain tile surface waters. Instem cause sewage backup into welling or establishment. In y "yes" answer above indicates of Imminent Threat to Public Heal of Imments/Explanation: In the above found.	th and Safety.	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)
	Second Se	estem consists of a seepage pit, sspool, drywell, or leaching pit. sepage pits meeting 7080.2550 may be impliant if allowed in local ordinance. swage tank(s) leak below their signed operating depth. yes, which sewage tank(s) leaks: ny "yes" answer above indicates in the impliant is Failing to Protect Green is Failing to and in the impliant is wered underwater camera into tanks -	☐ Yes ☒ No ☐ Yes ☒ No ☐ tes the oundwater.	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.	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. ☐ Yes* ☐ No ☐ 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:			

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Pro	perty address: 21820 Lofton Ave, Scandia, MN	1 55073		Inspector initials/Date:	9/18/2019 BA (M	
4.	Soil Separation — Compliance compor	nent #4 o	f 5			
	Date of installation: 1998 Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:	Unkn	own	Verification method(s): Soil observation does not expire observations by two independen unless site conditions have been requirements differ.	t parties are sufficient,	
	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.	# Conducted soil observation or Nellhead or Nellhead or not serving a food, ging establishment: I least a two-foot vertical nee from periodically bedrock. We systems built April 1, for non-performance In Shoreland or Wellhead is or serving a food, Conducted soil observation Two previous verification Two previous verification Not applicable (Holding Unable to verify (See C Other (See Comments/E) Yes		 ☐ Conducted soil observation(s ☐ Two previous verifications (A ☐ Not applicable (Holding tank(s) ☐ Unable to verify (See Comment 	ations (Attach boring logs) ing tank(s), no drainfield) c Comments/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:			Comments/Explanation: Reviewed design and permit rec	ords.	
-	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 or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	Yes	- - -	A. Bottom of distribution media B. Periodically saturated soil/bedroc C. System separation	See Attached Boring Log(s)	
5.	Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B.		em is	*May be reduced up to 15 perce Ordinance.		
Is the system operated under an Operating Permit? Yes No If "yes", A below is required Is the system required to employ a Nitrogen BMP? 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 does not need to be completed. Compliance criteria					ed	
	Operating Permit number: Have the Operating Permit requirements in the second	oeen met?)	☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and		unctioning?	☐ Yes ☐ No		
	A (for all an access in all and a a Name and					

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, 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.

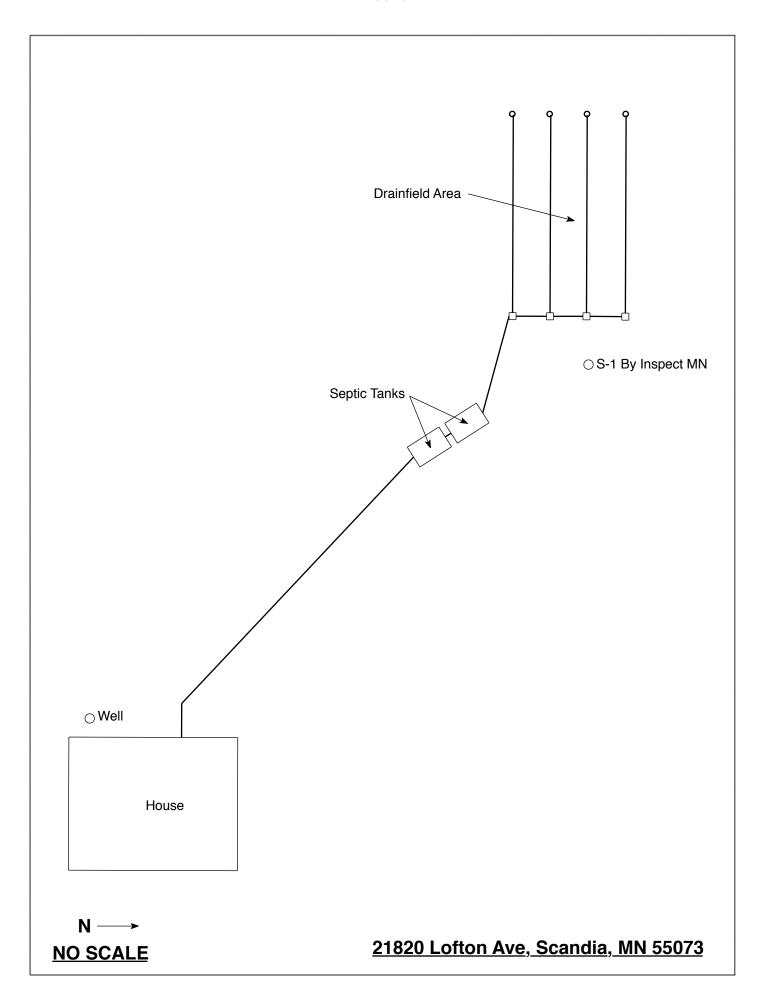
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

This information will be used for the purpose of conducting an MPCA Co	omphance hispection.			
Date of Inspection: September 18, 2019	Time: 11:00 AM			
Property Address: 21820 Lofton Ave, Scandia, MN	Zip: 55073			
Property Owner: Frank Roth	Phone:			
Tank(s) Tank(s)Material Soil Treatment System Septic 2 Fiberglass Rock trench Aerobic Plastic Gravelless trench Lift Metal Chamber trench Holding Concrete Seepage bed Other: Block Mound Other At-grade	Other Alternative system Experimental system Cesspool system Other system			
Are the tank maintenance covers accessible? ⊠ Yes ☐ No *If no	, proper maintenance must be			
performed through the maintenance holes. Maintenance hole covers				
the ground surface to facilitate access and proper maintenance of the	system.			
Year house built: 1913 Year septic installed: 1998 Ta	nk size (gals.): 2-1000			
How long has seller owned the property? Number of resid				
Number of bedrooms? 4 Are all floors drained by grav	vity? Y			
Garbage disposal? Whirlpool bath?				
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected to the septi	c system?			
Are any buildings on this property such as garages or out-buildings connected to this system?				
Are there any additional systems on this property serving other build	ings?			
Location of septic system on lot? Northeast Side				
Location of water well on lot? North Side Is the w	rell a deep well? Y			
Have you ever experienced any problems with the system such as: tr				
surfacing of sewage onto the ground, septic tank overflowing, etc.; o	r have any repairs been made			
to the system? If yes, explain:				
	r: Smilie's Sewer Service			
How often pumped in previous years?				
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the r	new owner?			
I hereby certify that the above information is correct to the best of my knowledge. considered "non-compliant/failing" per MPCA rules, that the inspector must by la local government unit within 15 days of the date of inspection completion. I also	w submit a copy of this report to the			

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:	Date:
•	



Soil Observations Log

Classification System: USDA	Location of Project: 21820 Lofton Ave, Scandia, MN 55073							
Classification System: Soil Observation: Surface Elevation of Observation				· · · · · · · · · · · · · · · · · · ·			9/18/19	
Surface Elevation of Observation Same ground surface as last drainfield trench Soils Encountered Depth In Inches Rock % Soils Encountered Depth In Inches Rock % Soils Encountered Depth Inches Rock % Rock % Rock % Rock % Depth Inches Rock % Rock			'	Ī				
Elevation of Observation Same ground surface as last drainfield trench Cobservation Cob	Soi	l Observation:	1		Soil C	bservation:		
10-13 10/18 3/3 Loamy Sand 10/18 3/4 Sandy Loam 10/18 3/4 Sandy Loam 10/18 3/4 Loamy Sand With Gravel & Calcium Carbonate Pieces 62" Depth To End Of Soil Observation Or Redox Same Elevation Of Observation Relative To System Elevation Of Observation Relative To System 29" Depth To Bottom Of Distribution Media ≥33" Of Separation End Of Soil Observation At: 62" End Of Soil Observation At: Redox Present At: None Redox Present At:	Elevation of	_		Elevat	ion of			
13-24 24-31 31-40 10YR 3/4 Sandy Loam 10YR 3/4 Sandy Loam 10YR 3/4 Medium Sand 10YR 3/4 Loamy Sand With Gravel & Calcium Carbonate Pieces 62" Depth To End Of Soil Observation Or Redox Same Elevation Of Observation Relative To System -29" Depth To Bottom Of Distribution Media ≥33" Of Separation End Of Soil Observation At: 62" End Of Soil Observation At: Redox Present At: None Redox Present At:		Soils E	ncountered		Rock %	Soils	Soils Encountered	
SameElevation Of Observation Relative To SystemElevation Of Observation Relative To System-29"Depth To Bottom Of Distribution MediaDepth To Bottom Of Distribution Media≥33"Of SeparationOf SeparationEnd Of Soil Observation At:62"End Of Soil Observation At:Redox Present At:NoneRedox Present At:	13-24 24-31 31-40	10YR 4/ 10YR 3/ 10YR 4/4 10YR 3/4 L	3 Loamy Sand 4 Sandy Loam 4 Medium Sand oamy Sand With					
-29" Depth To Bottom Of Distribution Media ≥33" Of Separation End Of Soil Observation At: Redox Present At: None Redox Present At:	62" Depth	To End Of Soil O	bservation Or Redox	Depth To End Of Soil Observation Or Red		Observation Or Redox		
≥33" Of Separation Of Separation End Of Soil Observation At: 62" End Of Soil Observation At: Redox Present At: None Redox Present At:				Elevation Of Observation Relative To System				
End Of Soil Observation At: 62" End Of Soil Observation At: Redox Present At: None Redox Present At:								
Redox Present At: None Redox Present At:	≥33" Of Separation			or Sepa	iration			
Redox Present At: None Redox Present At:	End Of Soil	Observation At:	62"	End Of	Soil Ob	servation At:		
	Standing Water Present At: None		Standing Water Present At:					

Bottom Of Distribution Medium At: 29 Inches			
Signature:	Chan Ila		

Logs of Soil Borings

Location of Project I rank Roth prop., 17 acres, Sec. 17, New Scandia Twp., Washington Co.				
Borings made by Chris Zierke	Date 675/98 RECEIVED			
Hand bucket auger used for borings; USDA - SCS Soil Classification used.				
Depth. Boring Number 1 Geet Dark-brown Toam(10YR-3/3)	Boring Number 2 _{HELM} Dark-brown toam			
Yellowish-brown loam(10YR-5/4) Yellowish-brown silt loam(10YR-5/6) Brown gravelly sand(10YR-5/3), occasional pebbles ohstruction	Yellowish-brown loam Yellowish-brown silt loam Yellowish-brown medium-gr. loamy sand(107R-5/4) Dark y-brown medium to coarse-gr. loamy sand S————————————————————————————————————			
End of horing at	End of boring at feet. Standing water table: Present at feet of depth, hours after boring. Standing water not present in hole X Mottled Soil: Observed at feet of depth. Mottled soil not present in bore hole X Comments:			
Boring Number 3	Boring Number 4			
0 8" Dark-brown loam 1 18" Yellowish-brown loam	0 8" Dark-brown loam 1 16 " Yellowish-brown loam			
2 — Yellowish-brown silt loam 3 — Dark y-brown medium to coarse-gr.loamy 4 54π sand	2 30 Yellowish-brown silt loam 3 Dark-brown medium to coarse-gr. loamy sand 4			
5 Brown gravelly sand, occasional pebbles 674" 7 Yellowish-brown loam(10YR-5/4), iron-stains	5 Brown gravelly sand, occasional pebbles 6 7			
End of boring at feet.	End of boring at 7 feet.			
Standing water table: Present at feet of depth, hours after boring. Standing water not present in hole X Mottled Soil: Observed at 74" icot of depth. Mottled soil not present in bore hole Comments:	Standing water table: Present at feet of depth, hours after boring. Standing water not present in holeX Mottled Soil: Observed at feet of depth. Mottled soil not present in bore hole X Comments:			

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 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
- 8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	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