Midwest Sewer Services

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

Brian Humpal

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: June 17, 2020 **Time:** 9:45 AM **Owner:** Mark Agnessi

Inspection Address: 14255 E Oakgreen Cir S, Afton, MN 55001

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a mound.

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

Midwest Sewer Services have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Midwest Sewer Services disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

Christopher Uebe

Brian Humpal

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days System Status System status on date (mm/dd/yyyy): 6/17/2020 Compliant - Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)								
System Status System status on date (mm/dd/yyyy): 6/17/2020 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 Impact on Public Health (Compliance Component #2) - Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety Tank Integrity (Compliance Component #3) - Failing to protect groundwater Other Compliance Component #3 - Failing to protect groundwater Other Compliance Component #3 - Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) - Noncompliant Property Information Parcel ID# or Sec/Twp/Range: Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Property Transfer Property Transfer Property address: 14255 E Oakgreen Cir S, Alton, MN 55001 Reason for inspection: Property Transfer Prop	Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.							
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Property address: 14255 E Oakgreen Cir S, Afton, MN 55001 Reason for inspection: Property Transfer Property owner: Mark Agnessi Owner's phone: 906-282-3443 Orn Owner's representative: Representative phone: Regulatory authority: Washington County Regulatory authority phone: 651-430-6655 Brief system description: Two pre-cast septic tanks, a pre-cast lift tank, and a mound. Comments or recommendations: 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/Christopher Uebe Certification number: C5342/C9852 Business name: Midwest Sewer Services License number: L2896 Necessary or Locally Required Attachments Soil boring logs System/As-built drawing Forms per local ordinance	 ☐ Impact on Public Health (Compliance Component #1) – Imminent threat t ☐ Other Compliance Conditions (Compliance Component #3) – Imminent th ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwa ☐ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwa ☐ Soil Separation (Compliance Component #4) – Failing to protect groundwa 	reat to public health and safety ter otect groundwater vater						
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Soil boring logs System/As-built drawing □ Forms per local ordinance	Necessary or Locally Required Attachments							
	Soil boring logs							
	☐ Other information (list): Report Summary, Property Information, Disclaimer, Lie							

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Property address: 14255 E Oakgreen Cir S, Afton, MN 55001

Inspector initials/Date: 6/17/2020 **BM**

Impact on Public Health – Compliance component #1 of 5 Compliance criteria: Verification method(s): Searched for surface outlet ☐ Yes ☐ No System discharge sewage to the Searched for seeping in yard/backup in home ground surface. System discharge sewage to drain tile ☐ Yes ☐ No ☐ Homeowner testimony (See Comments/Explanation) or surface waters. ☐ "Black soil" above soil dispersal system ☐ Yes ☐ No System cause sewage backup into ☐ System requires "emergency" pumping dwelling or establishment. ☐ Performed dye test Any "yes" answer above indicates the system is Unable to verify (See Comments/Explanation) an Imminent Threat to Public Health and Safety. Other methods not listed (See Comments/Explanation) Comments/Explanation: None of the above found. 2. Tank Integrity – Compliance component #2 of 5 Verification method(s): Compliance criteria: □ Probed tank(s) bottom System consists of a seepage pit, ☐ Yes ☐ No cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be ☐ Examined Tank Integrity Form (Attach) compliant if allowed in local ordinance. ☐ Observed liquid level below operating depth ☐ Yes ☒ No Sewage tank(s) leak below their ☐ Examined empty (pumped) tanks(s) designed operating depth. ☐ Probed outside tank(s) for "black soil" If yes, which sewage tank(s) leaks: ☐ Unable to verify (See Comments/Explanation) Any "ves" answer above indicates the ☑ Other methods not listed (See Comments/Explanation) system is Failing to Protect Groundwater. 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 Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ⊠ No ☐ Unknown a. 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: System is non-protective of ground water for other conditions as determined by inspector ☑ No *System is failing to protect groundwater Explain:

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Inspector initials/Date: 6/17/2020 **BA** Property address: 14255 E Oakgreen Cir S, Afton, MN 55001 **Soil Separation** – Compliance component #4 of 5 Date of installation: 2015 Unknown Verification method(s): Shoreland/Wellhead protection/Food Beverage ☐ Yes ☐ No Soil observation does not expire. Previous soil Lodging? observations by two independent parties are sufficient, unless site conditions have been altered or local Compliance criteria: requirements differ. For systems built prior to April 1, 1996, and ☐ Yes ☐ No not located in Shoreland or Wellhead ☐ Conducted soil observation(s) (Attach boring logs) Protection Area or not serving a food. ☐ Two previous verifications (Attach boring logs) beverage or lodging establishment: ☐ Not applicable (Holding tank(s), no drainfield) Drainfield has at least a two-foot vertical ☐ Unable to verify (See Comments/Explanation) separation distance from periodically ○ Other (See Comments/Explanation) saturated soil or bedrock. ⊠ Yes □ No Non-performance systems built April 1, Comments/Explanation: 1996, or later or for non-performance Reviewed design and permit records. systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: 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 See Attached or V systems built under 2008 Rules (7080. Boring Log(s) A. Bottom of distribution media 2350 or 7080.2400 (Advanced Inspector License required) B. Periodically saturated soil/bedrock Drainfield meets the designed vertical separation distance from periodically C. System separation saturated soil or bedrock. D. Required compliance separation* Any "no" answer above indicates the system is *May be reduced up to 15 percent if allowed by Local Failing to Protect Groundwater. Ordinance. 5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable ☐ Yes ☐ No If "yes", A below is required Is the system operated under an Operating Permit? 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 a. Operating Permit number: ☐ Yes ☐ No Have the Operating Permit requirements been met?

Any "no" answer indicates Noncompliance.

b. Is the required nitrogen BMP in place and properly functioning?

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.

☐ Yes ☐ No

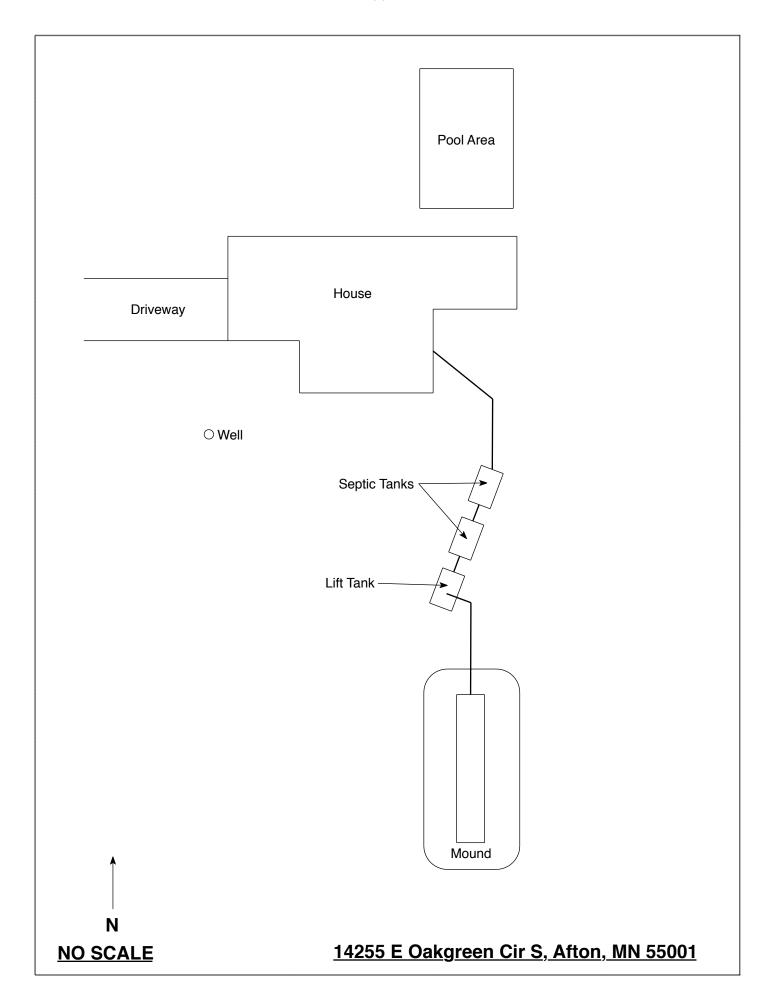
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Midwest Sewer Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection

1 1118 1111	ormation will be used for t	the purpose of co	nducting an	MPCA CO	<u>mpnanc</u>	e inspection.	
Date of Inspection: June 17, 2020					Γime:	9:45 AM	
Property Address:	operty Address: 14255 E Oakgreen Cir S, Afton, MN					55001	
Property Owner: Mark Agnessi				I	Phone: 906-282-3443		
Tank(s) Septic 2 Aerobic Lift Holding Other:	Tank(s)Material Fiberglass Plastic Metal Concrete Block Other	□Rock □Grav □Char	eatment Sy te trench relless trench mber trench age bed nd	[ch [□Expeı □Cessp	Other native system rimental system system system	
Are the tank maintenance covers accessible? Yes No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.							
Year house built: 1		ptic installed				e (gals.): 1-1500, 1-1000	
	r owned the propert					n home?	
Number of bedroom	ns? 5	Are all floor			vity?		
Garbage disposal?		I V	Vhirlpool	bath?			
More than one syst	• • • • • • • • • • • • • • • • • • • •						
Does this property have any footing drain tiles connected to the septic system? Are any buildings on this property such as garages or out-buildings connected to this system?							
Are there any addit	ional systems on thi	is property so	erving otl	her build	dings?		
	system on lot? Nortl						
Location of water well on lot? South Side Is the well a deep well? Y						1	
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? If yes, explain:							
	em last pumped? 20		Name o	of pumpe	er: Me	yer Sewer Service	
How often pumped in previous years? Is system on a monitoring plan?							
Have you received notices from any government agency concerning this system?							
Is your property loo	Is your property located in a shoreland management area? N						
Do you have any ac	dditional informatio	on that should	l be giver	n to the	new ov	wner?	
I hereby certify that the a considered "non-complia local government unit w	above information is contact/failing" per MPCA in thin 15 days of the dat ultimately responsible f	rrect to the best rules, that the i te of inspection for payment of	of my kno nspector m	wledge. nust by lav on. I also	I also ur w subm agree tl	nderstand that if the system is it a copy of this report to the hat unless otherwise noted in ned relative to this inspection	

Date:

Owner/Occupant:



Comments

Project ID:

#RFF!

Additional Soil Observation Logs

UNIVERSITY OF MUNICIPAL	7.0
ONSITE	THE PARTY
SEWAGE	
TREATMENT	
PROGRAM	

B3 Legal Description/ GPS: Client/ Address: Soil parent material(s): (Check all that apply) 🔲 Outwash 🔲 Lacustrine 🔲 Loess 🔲 Till 🔲 Alluvium ☐ Bedrock Organic Matter Landscape Position: (check one) Summit Shoulder Back/Side Slope Foot Slope Toe Slope Slope shape (102.1)Soil survey map units Slope% Elevation: Vegetation Weather Conditions/Time of Day: Date Observation #/Location: Observation Type: I------ Structure-----I Rock Depth (in) Texture Matrix Color(s) Mottle Color(s) Redox Kind(s) Indicator(s) Frag. % Consistence Shape Grade SHO 15-31 REDOX @ 30" CONCRUTTRATIONS 2.576/6 Comments Observation #/Location: Observation Type: I------I Rock Depth (in) Mottle Color(s) Redox Kind(s) Texture Matrix Color(s) Indicator(s) Frag. % Shape Grade Consistence Comments

U of MN Onsite Sewage Treatment Program Soil Boring Log

Client/Address: 14255 E OAKERES CIRCLE Legal Description/GPS: 21.028.20.32.0004 Date: 27APRZO15 44°53'43.1884" 92°49'04.7256" PK+- PRE-KEEWATIN Soil Parent Material(s): Till Lacustrine Alluvium Loess Organic Matter Bedrock Outwash (circle all that apply) ELACIAL TILL Shoulder Back/Side Slope Foot Slope Toe Slope Landscape Position: Summit (circle one) Soil Survey Map Unit(s): 23 Vegetation: کرس ہے Slope (%): DSTRANDER SILT LOAM Weather conditions/Time of Day: PM/Suny Slope Shape:

Saturated Soil Depth (in) **Texture** Matrix Mottle Redox Indicator(s) I-----I Color(s) Color(s) Kind(s) (see back) Grade Shape Consistence Granular Weak Loose SILT Platy 107R Moderate Friable Concentrations Blocky Strong Firm Depletions 0-10" Prismatic LOAM Loose Extremely Firm Gleved Single Grain Rigid Massive Granular Weak Loose Platy SANDy Moderate Friable Concentrations Blocky Strong Firm **Depletions** Prismatic LOAM Loose Extremely Firm Gleyed Single Grain Rigid Massive Granular Weak Loose Platy 101R Moderate Friable Concentrations Blocky Strong Firm **Depletions** 25-53" Prismatic 4/4 Loose Extremely Firm Gleved Single Grain Rigid Massive Granular Weak Loose Platy Moderate Friable Concentrations Blocky Strong Firm 53" + SAMD STONE **Depletions** Prismatic Loose Extremely Firm Gleved Single Grain Rigid Massive Granular Weak Loose Platy Moderate Friable Concentrations Blocky Strong Firm **Depletions** Prismatic Loose Extremely Firm Gleved Single Grain Rigid Massive Granular Weak Loose Platy Moderate Friable Concentrations Blocky Strong Firm Depletions Prismatic Loose Extremely Firm Gleyed Single Grain Rigid Massive

Comments:

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 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

Midwest Sewer Services

License # L2896

License Expires: 12/22/2020

Issued: 11/26/2019

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert # Na

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2023

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852 4

Christopher R Uebe

3/4/2021

Designer, Inspector



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

Nick Haig, Supervisor Certification and Training Unit