1 of 9

Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Be	Brian Humpal					
651-492-7550/Brian@Mid	MPCA Licensed Advanced Inspector					
SUBSURFACE SEWAGE	TREATMENT SYSTEM	A (SSTS) COMPLIANCE REPORT				
Date: June 27, 2019	Time: 9:00 AM	Owner: Greg Nuss				
Inspection Address: 9100 Joliet Ave N, Grant, MN 55082						

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 2006, which were on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a rock trench drainfield.

Although not a compliance criteria, it should be noted that the septic tanks and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance of the lift pump.

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 Humpal

Brian Humpal

3	Minnesota Pollution	Com
	Control Agency	
	520 Lafayette Road North	Existing \$

pliance Inspection Form

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.	

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): 6/27/2019

St. Paul, MN 55155-4194

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

2 of 9

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:	9100 Joliet Ave N, Grant, MN 55082	Reason for inspection: Property Transfer
Property owner: Greg Nuss		Owner's phone: 651-633-4810
or		
Owner's represent	ative:	Representative phone:
Local regulatory authority: Washington County		Regulatory authority phone: 651-430-6655
Brief system descr	iption: <u>Two pre-cast septic tanks</u> , a pre-cast	lift tanks, and a rock trench drainfield.
Comments or reco	mmendations:	

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	er:	C5342/C9852		
Business name:	Inspect	Minnesota, N	lidwe	st Soil Testing		License numbe	er:	L2896		
Inspector signatu	re:	Brian ;	Hu	mpal After	11	Phone number	er:	651-492-7550		
Necessary or	Local	ly Require	ed A	ttachment	s					
Soil boring lo	ogs	⊠ Syst	em/A	s-built drawing	I	Forms per local ordir	nanc	ce		
Other inform	nation (list	t): Report S	Sumn	nary, Property I	nforn	nation, Disclaimer, License				
www.pca.state.mn.	.us •	651-296-6300	•	800-657-3864	•	TTY 651-282-5332 or 800-657-386	54	• Available in alternative formats		

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

Compliance criteria:		Verifica
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	⊠ Sea ⊠ Sea
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	Exce
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	☐ "Blac ☐ Syst ☐ Perf
Any "yes" answer above indicate an Imminent Threat to Public Hea		Una

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,	🗌 Yes 🖾 No	Probed tank(s) bottom		
cesspool, drywell, or leaching pit.		Examined construction records		
Seepage pits meeting 7080.2550 may be		Examined Tank Integrity Form (Attach)		
compliant if allowed in local ordinance.		Observed liquid level below operating depth		
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"		
		Unable to verify (See Comments/Explanation)		
Any "yes" answer above indic system is Failing to Protect G		Other methods not listed (See Comments/Explanation)		

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: 2003		Verification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Pro	on does not expire. Previous soil by two independent parties are sufficient,		
Compliance criteria:		unless site conditions have been alte			
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	 requirements differ. Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) Other (See Comments/Explanation) 			
Non-performance systems built April 1, 1996, or later or for non-performance	🛛 Yes 🗌 No	Comments/Explanation:			
systems located in Shoreland or Wellhead		Reviewed previous compliance insp	ection from 2006.		
Protection Areas or serving a food, beverage, or lodging establishment:		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		A. Bottom of distribution media	See Attached Boring Log(s)		
License required) 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 t Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Local		
Operating Permit and Nitrogen B	MP* – Compliance	component #5 of 5 🛛 🛛 Not appl	icable		
Is the system operated under an Operating Per	mit? 🗌 Yes 🗌	No If "yes", A below is required			
Is the system required to employ a Nitrogen BM	IP? □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

5.

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: June 27, 2019	Time: 9:00 AM					
Property Address: 9100 Joliet Ave N, Grant, MN	Zip: 55082					
Property Owner: Greg Nuss	Phone: 651-633-4810					
	eatment System Other					
	a trench Alternative system					
Aerobic Plastic Grav	elless trench Experimental system					
	nber trench Cesspool system					
☐ Holding ☐Concrete ☐Seep ☐ Other: ☐Block ☐Mou	age bed Other system					
Other At-gr						
Are the tank maintenance covers accessible? \Box Ye	\sim \propto No *If no proper maintenance must be					
performed through the maintenance holes. Mainter						
the ground surface to facilitate access and proper m						
Year house built: 2003 Year septic installed						
How long has seller owned the property?	Number of residents in home?					
	rs drained by gravity? Y					
6 1	/hirlpool bath?					
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles con	nected to the septic 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 so	erving other buildings?					
Are more any additional systems on this property so	siving other oundings?					
Lagation of gamting system on lat? West Side						
Location of septic system on lot? West Side Location of water well on lot? East Side	Is the well a deep well? V					
	Is the well a deep well? Y					
Have you ever experienced any problems with the s						
surfacing of sewage onto the ground, septic tank ov to the system? If yes, explain:	ernowing, etc., of have any repairs been made					
to the system? If yes, explain:						
When was the system last pumped? 2017	Name of pumper: Meyer 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 located in a shoreland managemen						
Do you have any additional information that should						
	se grien to the new owner:					

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant:

Driveway House Deck Septic Tanks < Lift Tank Drainfield Area ← N 9100 Joliet Ave N, Grant, MN 55082 NO SCALE

6 of 9

		Location or Project <u>9100</u> Jolict <u>Auc</u> <u>N</u> Borings made by <u>IncRect</u> <u>MN</u> Classification System: ALSHO; USDA-SOS <u>X</u> ; Unified; other Auger used (check two): Hand <u>X</u> , or <u>Power</u> <u>;</u> Plight, or <u>Bucket X</u> ; or
Depth, in feet Surface elevation Sume C top of Ground @ Icurcyt	Depth, Boring number <u>13-2</u> in Surface eleverion Same as top of ground @ lowest trench	Depth, Boring number <u>B-3</u> in Surface elevation <u>Some 45</u> in feet <u>bob</u> Of ground <u>Quitoress</u> o track 3'D R and <u>Duress</u>
0 - 0"-24" 1048 3/4 1 - Sandy loam	0 0228 7.541 4/4 1 - loany Sand	1- 0"238" 7.5 K 4/4 Sandy loam
2 - 24"-52" 7.5 T R 4/6 3 - ;	$\frac{2}{3} = \frac{2\xi'' - 42'' - 7.5 \text{ Tr} (-4/4)}{2\xi'' - 42'' - 2\xi'' - 42''}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
4- 52"-69"7.5TR 4/6 5- 7.5TR 5/2 104 mothed	luginy hand + Graved	$4 - 5 - \frac{54^{6}-64^{7}}{100} \frac{157}{100} \frac{104}{100} \frac{4}{100} \frac{4}{100} - \frac{5}{100} \frac{1}{100} \frac{1}{100$
$6 - \frac{64' \times 10\% 4/4}{75\% 518}$ $7 - \frac{10\% 61}{10\% 61}$	7 - Has 36" of September	$\begin{array}{c c} & - & \\ & Clay & loam \\ & 7 - \\ \end{array} \end{array} \qquad \begin{bmatrix} 0 \\ 7 \\ - \\ \end{bmatrix}$
8	8	8- Has 36" of Separation 8-
End of Boring at: $\underline{78^{"}}$ Inches Mottled Soil Present: $\underbrace{\operatorname{Ces}}$ NO Mottled Soil at: $\underline{52^{"}}$ Inches	End of Boring at: <u>78</u> Inches Mottled Soil Present: Yes NO Mottled Soil at: <u>Inches</u> Standing Water Present: Yes NO	End of Boring at:
Standing Water Present: Yes (NO) Standing Water Present at: inches TOP OF DISTRIBUTION MEDIUM .	Standing Water Present at:Inches	Standing Water Present at: Inches Standing Water Present at: Inches TOP OF DISTRIBUTION MEDIUM AT: 22 INCHES
BOTTOM OF DISTRIBUTION MED REMARKS:	YES_X_ NO	BOTTOM OF DISTRIBUTION MEDIUM AT: <u>40</u> INCHES REMARKS: WERE SOIL SAMPLES SPRAYED? YES <u>NO</u> When performing the soil boring (a) relative to this septic system inspection, site evaluation or design, the depth to distinct
redoximorphic features (commonly know as "mottled in MPCA rules 7080.0020 Subp. 13a. adopted through color by one or more hues, more than two units of value		redeximprophic features (commonly know as "montited sells") were determined by using the definition for "distinct" as defined in MPCA rules 7080.0005 Subj. 12 adopted through Spetember 2002: "Distinct" means a soil color that varies from another color by one or more hans, more than two units of value, or more than one unit of chroma.
(Mil has been advised through training and conversation redovimership features (mattled soils) must be used in	with the MPCA that the above procedure for determining all cases; no other definitions will be allowed. The only exceptions to other soil features such as lamellae banding, chelation from tannic	(A) has been solviced through training and conversations with the MCCA that its above procedure for destination reductionsriphic future (notified entry) must be used and it access, no other definitions will be allowed. The only exceptions would be when the difference in soil colors are attributed to other soil features such as lamellae banding, chelation from tanali- scide, aclision methomstes. etc.

ü	07 3, <u>600</u>	2, HILTONS LOWITE THE	R/D&E	BORING LOG			
	DATE	2-28-02		4"- 12" FROST			
Ĩ					1	OREHOLE DIAMETER 4".	36"-22" HAND AUSER
P.007/011	DEPTH FEET	HOLE #1	HOLE #2	HOLE #3	HOLE #4	HOLE #5	CLASSIFICATION
T-176 P.001		- TOP SOIL	TOP SOIL-		TOP SOIL	TOP SOIL-	- 70P SOIL - BROWN LOAM - 7.5 YR 4/4
Ľ.	, -	- LIGHT BADWN - FINE SAND -	- LIGHT BROWN - FINE SMND -	- LIGHT BROWN, - - FINE SAND -	FINE SAND	- LIGHT BROWN-	LIGHT BROWN
9130	1	LOAN WITHJAND LAYERS	JELLOWISH BROWN	- LIGHT BROWN - COARSE SAND -		CORASE SAND	T.SYA 4/3
961 430 6730	3 -	LIGHT BADWN -	BANDY LOAM-		JELLOWISH BROWN_	- APOCKS -	104R 156
	4	- CRARGE SAND -	ObstRuction	BROWN LOAM	MEDIUM TO		- 7.5 TA 4/4
	s	- 5/LTY -	- ****P -	- LIGHT BROWN	- Rocks -	LOAM LAYER	
2	6-			51271	CASTRUCTION STOP	CO ARSE SAND	
FROM-RASHINGTON CTY	,	- ³⁷⁶ P -		STOP	- 0KRY 6' -	SToP	-
FROM-BAS	.‡	ORAY 6'+ -	- 4	OKAY 6'+		- OMAY 6'+ -	
88:18	Ì				= +		-
30- 3 0-31	." +		= =				-
	10 +			- +	- +		

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 Expires: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

License # L2896

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 De	esigner, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	

MINNESOTA POLLUTION CONTROL AGENCY

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

Nich Haig

Nick Haig, Supervisor Certification and Training Unit