Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Inspection Address: 11233 Neal Ave N, Stillwater Twp, MN 55082

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system and have reviewed the original permit records on file at Washington County. This very old system (installed in 1976) consists of a pre-cast septic tank and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the lack of the required three foot separation between the bottom of the drainfield and seasonally saturated soils. This system is not an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A). Washington County issued sewage treatment permit #1294 for the installation of this septic system.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

Brian Humpal



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

		Doc	Type. Compliance and Emorcement		
	ults based on Minnesota Pollution Control Agency (Nrms – additional local requirements may also apply.	MPCA) For local tr	For local tracking purposes:		
Submit completed form to within 15 days	Local Unit of Government (LUG) and system ow	vner			
System Status					
System status on dat	e (mm/dd/yyyy): <u>10/18/2016</u>				
	rom report date, unless shorter time (S	oncompliant – N ee Upgrade Require	lotice of Noncompliance ments on page 3)		
Reason(s) for nonc	ompliance <i>(check all applicable)</i>				
• •	: Health (Compliance Component #1) – Imminent t	threat to public healt	h and safetv		
· ·	ce Conditions (Compliance Component #3) – Immir		-		
•	Compliance Component #2) – Failing to protect gro				
	ce Conditions (Compliance Component #3) – Failin		vater		
·	Compliance Component #4) – Failing to protect gr				
☐ Operating permi	t/monitoring plan requirements (Compliance Comp	onent #5) – Noncon	npliant		
Property Information	n Parcel ID# or Sec/Tw	vn/Range:			
		eason for inspection	Property Sale		
Property owner: Steven &		Owner's phone:			
or	,	· —			
Owner's representative: A	nne Anderson (Edina Realty) Re	epresentative phone	: 651-430-3200		
Local regulatory authority:	Washington County Re	egulatory authority p	hone: 651-430-4052		
Brief system description:	Pre-cast septic tank and a rock trench drainfield.				
Comments or recommendati	ons:				
Certification					
I hereby certify that all the ne	ecessary information has been gathered to determin	ne the compliance s	tatus of this system. No		
determination of future syste	m performance has been nor can be made due to u n, inadequate maintenance, or future water usage.				
Inspector name: Brian Hui	mpal Ce	ertification number:	L5342		
Business name: Inspect M	linnesota, Midwest Soil Testing	License number:	L2896		
Inspector signature:	Brian Humpal	Phone number:	651-492-7550		
	•				
Necessary or Locally	Required Attachments				
Soil boring logs		ms per local ordinan	ce		

☑ Other information (list): Report Summary, Property Information, Disclaimer, License

1.	lm	Impact on Public Health – Compliance component #1 of 5							
1.	Sygree Sy	propert on Public Health – Corpording of the Department of the Dep	☐ Yes☐ Yes☐ Yes☐ Yes☐ Hessisthe system	No No No No Stem is Safety.	Ve	rification 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.		ank Integrity — Compliance con	_		g of blackryie	ry sulls.			
	Co	ompliance criteria:			Ve	rification method(s):			
	Sy ce:	stem consists of a seepage pit, sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be	☐ Yes	⊠ No		Probed tank(s) bottom			
	Se de	wage tank(s) leak below their signed operating depth.	☐ Yes	⊠No		Observed liquid level below operating depth Examined empty (pumped) tanks(s) Probed outside tank(s) for "black soil"			
	A	If yes, which sewage tank(s) leaks: Any "yes" answer above indicates the system is Failing to Protect Groundwater.				☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
3.	Lo	omments/Explanation: wered underwater camera into tanks - ther Compliance Conditions				3 of 5			
	a.	Maintenance hole covers are damage	d, cracked	l, unsecure	ed, or appear	o structurally unsound.			
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unkno *System is an imminent threat to public health and safety								
	 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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Inspector initials/Date: __10/18/2016

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Date of installation: 1976	Unkr	nown	Ve	erification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	⊠ Yes □ No		Soil observation does not expire. Previous soil			
Compliance criteria:			observations by two independent unless site conditions have been a			
For systems built prior to April 1, 1996, and	☐ Yes	П No	re	requirements differ.		
not located in Shoreland or Wellhead Protection Area or not serving a food,			 ☑ Conducted soil observation(s) (Attach boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield) 			
beverage or lodging establishment:						
Drainfield has at least a two-foot vertical				☐ Unable to verify (See Comments/Explanation)		
separation distance from periodically saturated soil or bedrock.			○ Other (See Comments/Explanation)			
Non-performance systems built April 1,	☐ Yes ☒ No		Comments/Explanation:			
1996, or later or for non-performance systems located in Shoreland or Wellhead			Reviewed permit records.			
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	□No	In	dicate depths of elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.					See Attached	
2350 or 7080.2400 (Advanced Inspector License required)			Α.	Bottom of distribution media	Boring Log(s)	
Drainfield meets the designed vertical			В.	Periodically saturated soil/bedrock		
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					f allowed by Local	
Failing to Protect Groundwater.				Ordinance.	•	
. Operating Permit and Nitrogen B	MD# 6					
. Oberaling Permit and Nitrogen B		-			licable	
		l l Yes	⊠ No	If "yes", A below is required		
Is the system operated under an Operating Per			□ N	If " !! D b alass is no sector of		
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BM	1P?	☐ Yes		If "yes", B below is required		
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specifications	1P? ïed in the	☐ Yes	sign			
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BM	1P? ïed in the	☐ Yes	sign			
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specifications	1P? ïed in the	☐ Yes	sign			
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specif If the answer to both questions is "no", Compliance criteria a. Operating Permit number:	1P? ied in the this sec	☐ Yes system des	sign			
Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specif If the answer to both questions is "no", Compliance criteria	IP? ied in the this sec	☐ Yes system des tion does	sign not n	need to be completed.		

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Inspector initials/Date: 10/18/2016

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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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

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OFFICE OF THE ZONING ADMINISTRATOR WASHINGTON COUNTY, MINNESOTA

Tel. 439-3220

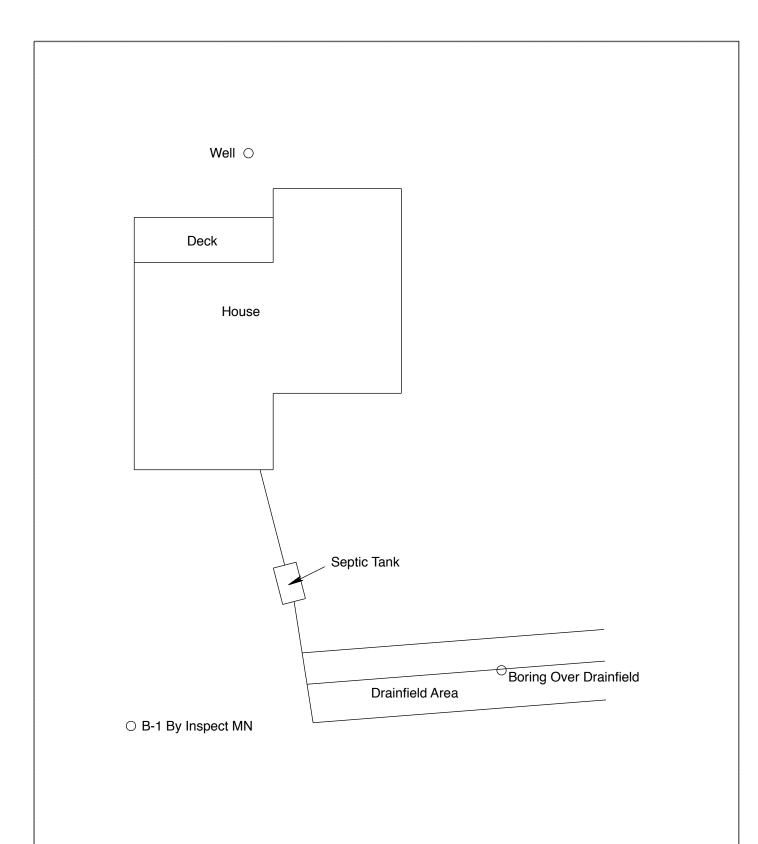
PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM

// 233 //	NAME	
11233 NEOL AU	EN LOTTE	Permit No. <u>1294</u>
MINIMUM SYSTEM REQUIRED:	ADDRESS Percelation D. O.C.	Care Estans
	M in/Inc	STALLOWING TEUR
Distribution Box Conc. w/Ken	Gal. Liquid Capacity Lift Station_	
Feet - Square Feet	720	
Depth of Rock Below Tile Lines	Lineal Feet 460	Width 2 4 "
Depth of Trench - Minimum C	Move Tile	Inches
	Maximum I	inches
		Ft.
Minimum Spacing of Lines 6	Ft. Center to Center.	
Inspection of Installation Special Conditions	Must Be Accomplished By This Office Before Any Portion of	
		System Is Covered.
See Dernes AT		
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stem Inspected	J	
PATE	Je Ro	my E-xea.
italiation Approved		
7000	Mone	
nments	INSPECTOR	 :
		and the control of th
MIT: Permission is hereby granted to	o the above pamed and	
MIT: Permission is hereby granted to fications shown under minimum system	o the above named applicant to perform the work describe	ed in the application
MIT: Permission is hereby granted to fications shown under minimum system	o the above named applicant to perform the work describe m required. This permit is granted upon express condition th kmen shall conform in all respects to ordinances of Washing	ed in the application, to the lat the person to whom it is ton County, Minnesses
MIT: Permission is hereby granted to fications shown under minimum system	to the above named applicant to perform the work described meaning the more described meaning that is granted upon express condition the remainder of the meaning that is a second to the meaning that is a second meaning to the meaning to the meaning that is a second meaning that is a se	ed in the application, to the nat the person to whom it is ton County, Minnesota. This perk is not commenced within
MIT: Permission is hereby granted to fications shown under minimum system	o the above named applicant to perform the work describe m required. This permit is granted upon express condition the rkmen shall conform in all respects to ordinances of Washing iolation of any said ordinance, and permit shall be void if we insteller License with Washington County.	ed in the application, to the lat the person to whom it is ton County, Minnesota. This lark is not commenced within
MIT: Permission is hereby granted to fications shown under minimum system	o the above named applicant to perform the work described mean required. This permit is granted upon express condition the rkmen shall conform in all respects to ordinances of Washing iolation of any said ordinance, and permit shall be void if we ic Insteller License with Washington County.	ed in the application, to the nat the person to whom it is ton County, Minnesota. This ork is not commenced within

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: October 18, 2016	Time: 3:15 PM					
Property Address: 11233 Neal Ave N, Stillwater Twp, MN	Zip: 55082					
Property Owner: Steve & Mary Neils	Phone:					
Tank(s) Tank(s)Material Soil Treatment System Septic 1 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 should be made accessible to the ground surface to facilitate access and proper maintenance of the system.						
-	Γank size (gals.): 1200					
	sidents in home?					
Number of bedrooms? 4 Are all floors drained by g						
Garbage disposal? Whirlpool bath?						
More than one system (laundry, etc.)?						
Does this property have any footing drain tiles connected to the se	ptic system?					
Are any buildings on this property such as garages or out-building	s connected to this system?					
Are there any additional systems on this property serving other buildings?						
Location of septic system on lot? East Side						
	e well a deep well? Y					
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:						
When was the system last pumped? 2014 Name of pum	1					
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? Y						
Do you have any additional information that should be given to the new owner?						
I hereby certify that the above information is correct to the best of my 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:	Date:					



Log Of Soil Borings

Location of Project: 11233 Neal Ave N, Stillwater Twp, 55082						
Borings Made By: Inspect Minnesota			Date: 10/18		10/18/16	
Auger Used: Hand/Bucket			Classification System: USDA		USDA	
Boring Number: 1				Boring Number:		
FIEVATION OFF		und surface as last ofield trench	Surface Elevation (Boring	of		
Depth In Inches	Solis Focoliniarad		Depth In Inches	Soils Encountered		
0-14 14-26 26-38 38-51	10YR 4/4 7.5YR 4/4 Mediu 10YR 6/2 Silt Loar 10YR 6/1, 7.5YR 5 Refu	ny Fine Sand (Moist) Loam (Moist) Idium Sand (Moist) Im Sand (Moist) With In Layers (Saturated) & In Sand (Moist) With In Layers (Saturated) & In Sand (Moist) With In Layers (Saturated) & In Sand (Moist) With In Sand (M				
38"	Depth To End Of Boring Or Redox]	Depth To End Of Bo	oring Or Redox	
Same	Elevation Of Boring Relative To System		ı	Elevation Of Boring	Relative To System	
-39" Depth To Bottom Of Distribution Media					f Distribution Media	
=0" Of Separation			Of Separation			
	End Of Boring At:	51"		End Of Boring At:		
	Redox Present At:			Redox Present At:		
Standing Water Present At: None				Water Present At:		
<u> </u>						

Bottom Of Distribution Medium At: 39 Inches

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.

Sulbsurface Sewage Treatment Systems

Non-transferable



License # L2896

Date of Issuance:

Oct 28, 2015 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016 Dec 22, 2016

Adv Designer License Expires:

Adv Inspector License Expires: Maintainer License Expires: Installer License Expires:

Certification

Inspect Minnesota, Midwest Soil Testing

10/15/2017 Expires

10/15/2017

Advanced Designer (Certified) Advanced Inspector (Certified)

Maintainer (Certified)

Certification Type

Designated Certified

Individual (DCI) Brian L. Humpal Brian L. Humpal

10/15/2017

10/15/2017

10/15/2017

Service Provider (Certified)

Installer (Certified)

Inspector (Certified) Designer (Certified)

Christopher R. Uebe Christopher R. Uebe

03/04/2018

03/04/2018

Steven Giddings Manager Environmental Business Assistance Section



Minnesota Pollution Control Agency

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

Brian L. Humpal Brian L. Humpal

Brian L. Humpal