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: 16080 Scandia Trail N, Scandia, MN Site Conditions: 8" Snow 3" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this septic system, have reviewed the history of the system with the Owner, Barbara Booth, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1978) 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)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils. This system <u>is not</u> an imminent threat to public health or safety per MPCA rule 7080.1500 Subp. 4(A). Washington County issued sewage treatment permit #1303220410003 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 Brian Humpal



St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems(SSTS)

Doc Type: Compliance and Enforcement

	7		
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): 2/18/2016			
	mpliant – Notice of Noncompliance grade Requirements on page 3)		
Reason(s) for noncompliance (check all applicable)			
 ☐ Impact on Public Health (Compliance Component #1) – Imminent threat ☐ Other Compliance Conditions (Compliance Component #3) – Imminent th ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundw ☐ Other Compliance Conditions (Compliance Component #3) – Failing to p ☑ Soil Separation (Compliance Component #4) – Failing to protect ground ☐ Operating permit/monitoring plan requirements (Compliance Component 	nreat to public health and safety ater rotect groundwater water		
Property Information Parcel ID# or Sec/Twp/Rai	nge:		
Property address: 16080 Scandia Trail North, Scandia, MN 55073 Reason	for inspection: IUP/CUP		
Property owner: Lee & Barbara Booth Owner's	Owner's phone: 651-433-1314		
Or	antativa mbana.		
•	entative phone:ory authority phone: 651-430-4052		
Brief system description: Pre-cast septic tank and a rock trench drainfield.	001 400 4002		
Comments or recommendations:			
Certification			
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unkno possible abuse of the system, inadequate maintenance, or future water usage.			
Inspector name: Brian Humpal Certifica	ation number: <u>L5342</u>		
Business name: Inspect Minnesota, Midwest Soil Testing Lice	ense number: <u>L2896</u>		
Inspector signature: Brian Humpal Pr	one number: 651-492-7550		
Necessary or Locally Required Attachments			
	r local ordinance		
☑ Soil boring logs☑ System/As-built drawing☑ Forms pe☑ Other information (list):Report Summary, Property Information, Disclaimer, L	r local ordinance icense		
Troport duffillary, I Toporty information, Discialifier, L	1001100		

1.	Impact on Public Health – Compliance component #1 of 5							
	Compliance criteria:			Ve	Verification method(s):			
		stem discharge sewage to the bund surface.	☐ Yes ⊠ No		☑ Searched for surface outlet☑ Searched for seeping in yard/back	n yard/backup in		
		stem discharge sewage to drain tile surface waters.	☐ Yes ⊠ No		Excessive ponding in s Homeowner testimony "Plack soil" above soil of	(See Comments/E		
		stem cause sewage backup into velling or establishment.	☐ Yes ⊠ No	_	System requires "emerger Performed dye test			
		ny "yes" answer above indicates Ilmminent Threat to Public Heal	•	n is Unable to verify (See Comi				
Comments/Explanation: None of the above found.								
2	т.	ank Integrity Compliance con	onenant #2 of F					
2.		Tank Integrity – Compliance component #2 of 5 Compliance criteria:			erification method(s):			
		stem consists of a seepage pit,	☐ Yes ⊠ No	_	Probed tank(s) bottom	•		
		sspool, drywell, or leaching pit.		\boxtimes		records		
		epage pits meeting 7080.2550 may be mpliant if allowed in local ordinance.			Examined Tank Integrit Observed liquid level be	•	enth	
		wage tank(s) leak below their signed operating depth.	☐ Yes ⊠ No		Examined empty (pump	ped) tanks(s)	Spui	
	If yes, which sewage tank(s) leaks:			 □ Probed outside tank(s) for "black soil" □ Unable to verify (See Comments/Explanation) □ Other methods not listed (See Comments/Explanation) 				
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.							
		omments/Explanation: wered underwater camera into tank - l	naffles and tank w	alls OK	{			
		word and mater camera into tariit	oamoo ana tam u	ano ora				
3.	01	ther Compliance Conditions	- Compliance	component #	3 of 5			
	a.	Maintenance hole covers are damaged	•			☐ Yes* ⊠ No	Unknown	
							Unknown	
		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:								

Property address: 16080 Scandia Trail North, Scandia, MN 55073

Inspector initials/Date: 2/18/2016

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • 3 of 997 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 2 of 3

Date of installation: 1978	Unkr	nown	Ve	rification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	⊠ No	Soi	il observation does not expire. P		
Compliance criteria:			observations by two independent parties are sufficien unless site conditions have been altered or local			
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	☐ Yes ⊠ No		\boxtimes	requirements differ. ☐ Conducted soil observation(s) (Attach boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield)		
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.				Unable to verify (See Comments: Other (See 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:	☐ Yes	□No	Co	mments/Explanation:		
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	☐ Yes	□No	Inc	Indicate depths of elevations		
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			<u>A</u> .	Bottom of distribution media	See Attached Boring Log(s)	
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Periodically saturated soil/bedrock System separation		
			D.	Required compliance separation*		
Any "no" answer above indicates to Failing to Protect Groundwater.	he syst	em is		ay be reduced up to 15 percent rdinance.	if allowed by Local	
Operating Permit and Nitrogen B		•	-	• •	olicable	
Is the system operated under an Operating Per			⊠ No	If "yes", A below is required		
Is the system required to employ a Nitrogen BM		☐ Yes [If "yes", B below is required		
BMP=Best Management Practice(s) specific		-	_			
If the answer to both questions is "no",	this sec	tion does	not ne	eed to be completed.		
Compliance criteria						
a. Operating Permit number:				☐ Yes ☐ No		
Have the Operating Permit requirements by	peen met	?				
b. Is the required nitrogen BMP in place and	properly	functionina?)	☐ Yes ☐ No		

Property address: 16080 Scandia Trail North, Scandia, MN 55073

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

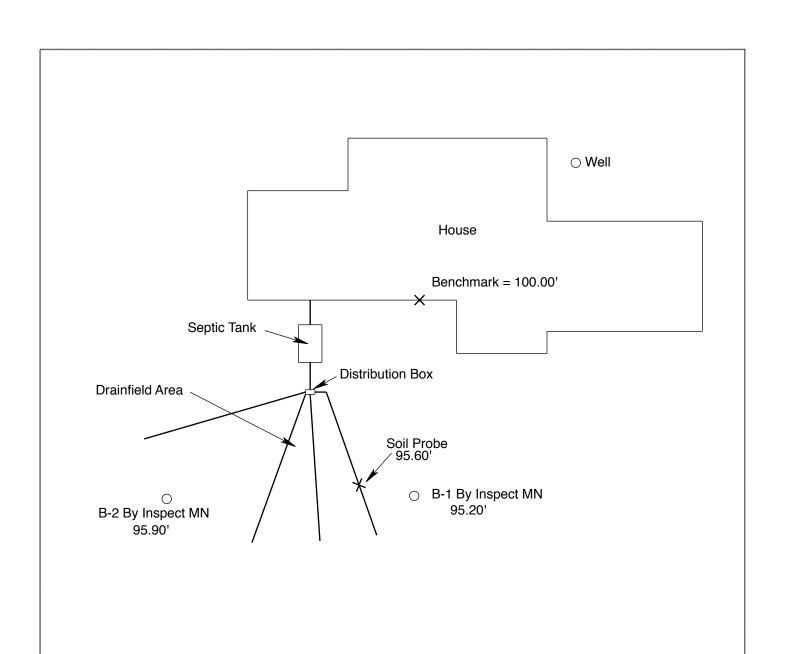
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: February 18, 2016	Time: 2:00 PM					
Property Address: 16080 Scandia Trail North, Sca	ndia, MN Zip: 55073					
Property Owner: Lee & Barbara Booth	Phone: 651-433-1314					
Septic 1 □Fiberglass □Rock □Aerobic □Plastic □Grav □Lift □Metal □Chan	elless trench					
performed through the maintenance holes. Mainten	ance hole covers should be made accessible to					
the ground surface to facilitate access and proper m	aintenance of the system.					
Year house built: Unknown Year septic installed	1978 Tank size (gals.): 1250					
	Number of residents in home? 2					
	s drained by gravity? Lower Pumped					
8 1	hirlpool bath? N					
More than one system (laundry, etc.)? N						
Does this property have any footing drain tiles conr	ected to the septic system? N					
Are any buildings on this property such as garages or out-buildings connected to this system? N						
Are there any additional systems on this property se	erving other buildings? N					
Location of septic system on lot? South Side						
Location of water well on lot? North Side	Is the 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? N If yes, explain:						
When was the system last pumped? 2012 Name of pumper: VES						
How often pumped in previous years? Every 2-3 Is system on a monitoring plan? N						
Have you received notices from any government agency concerning this system? N						
Is your property located in a shoreland management area? N						
Do you have any additional information that should be given to the new owner? N						

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: Barbara Booth's Signature On File Date: 2/11/2016



Log Of Soil Borings

Location of Project: 16080 Scandia Trail North, Scandia, MN 55073					
Borings Made By: Inspect Minnesota				Date:	2/18/16
	Auger Used:	Hand/Bucket	Class	ification System:	USDA
Во	oring Number:	1		Boring Number:	2
Surface		95.20'	Surface	2	
Elevation of		= 100.00' at front	Elevation	of	95.90'
Boring	door	threshold	Boring		
Depth In	Soils Er	ncountered	Depth In	Soils Encountered	
Inches 0-8	10VR 4/	3 Silt Loam	Inches 0-16	10VR 4	/2 Silt Loam
8-29 29-38 38-52	10YR 4/ 10YR 3/ 10YR 4/3 Lo 7.5YR 5/8, 7.!	3 Silt Loam 4 Silt Loam am (Moist) With 5YR 7/8, 5YR 5/8, R 6/2 Redox	16-33 33-40	10YR 5 10YR 5/3	/3 Silt Loam Silt Loam With © 10YR 6/2 Redox
91.93' Ele	avation To Botton	o Of Distribution Modia	91.93'	Flevation To Bottom	o Of Distribution Modia
			91.93' Elevation To Bottom Of Distribution Media -93.40' Depth To Redox Or End Of Boring		
=0'/0" Of Separation		=0'/0"	Of Separation	5	
_	- LOCB - t	F0."		E . 1 O(B	40"
End Of Boring At: 52"				End Of Boring At:	40"
Redox Present At: 38"/92.33'			CL	Redox Present At:	30"/93.40'
Standing Water Present At: None			Standing	Water Present At:	None

Bottom Of Distribution Medium At: 44" Or Elevation 91.93 At Soil Probe

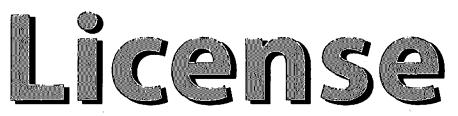
DISCLAIMER

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



License # L2896

Date of Issuance:

Maintainer License Expires:
Installer License Expires:
Adv Inspector License Expires:
Dec 22, 2016

Inspect Minnesota, Midwest Soil Testing

Designated Certified Individual (DCI)	Certification Type	Certification Expires
Brian L. Humpal	Maintainer (Certified)	10/15/2017
Brian L. Humpal	Advanced Designer (Certified)	10/15/2017
Brian L. Humpal	Advanced Inspector (Certified)	10/15/2017
Brian L. Humpal	Installer (Certified)	10/15/2017
Brian L. Humpal	Service Provider (Certified)	10/15/2017
Christopher R. Uebe	Designer (Certified)	03/04/2018
Christopher R. Uebe	Inspector (Certified)	03/04/2018



St. Paul, Minnesota 55155-4194

Steven Giddings Manager Environmental Business Assistance Section