Inspect Minnesota & Midwest Soil Testing

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

Brian Humpal

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 13740 Oakhill Rd N, Scandia, MN **Site Conditions:** 24" Snow 28" Frost

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 2012, which were on file at Washington County. This older system (installed in 1990) consists of a precast septic tank, a pre-cast lift tank, and a mound.

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



Compliance Inspection Form

Existing 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):3/6/2019	
<u> </u>	npliant – Notice of Noncompliance rade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent threat to Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater ater
Property Information Parcel ID# or Sec/Twp/Range	ie:
	or inspection: Property Transfer
· · ·	phone: 612-619-5088
or	
Owner's representative: Represen	tative phone:
· · · · · · · · · · · · · · · · · · ·	y authority phone: _651-430-6655
Brief system description: A pre-cast septic tank, 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 c determination of future system performance has been nor can be made due to unknow possible abuse of the system, inadequate maintenance, or future water usage.	
Inspector name: Brian Humpal/Christopher Uebe Certificati	on number: <u>C5342/C9852</u>
Business name: Inspect Minnesota, Midwest Soil Testing Licen	se number: L2896
Inspector signature: Pho	ne number: 651-492-7550
Necessary or Locally Required Attachments	
	local ordinance
	local ordinance
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic	СПЭС

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Property address: _ 13740 Oakhill Rd N, Scandia, MN 55073

Inspector initials/Date: 3/6/2019 24

1.	ln	npact on Public Health – Con	npliance co	omponent #1 of	5	
	Sy gro Sy or Sy dw An	estem discharge sewage to the bund surface. Its tem discharge sewage to drain tile surface waters. Its tem cause sewage backup into velling or establishment. In y "yes" answer above indicates in Imminent Threat to Public Heal of the above found.	the syste	☑ No ☑ No ☑ em is	SSSEHGFGDD	earched for surface outlet earched for seeping in yard/backup in home xcessive ponding in soil system/D-boxes omeowner testimony (See Comments/Explanation) Black soil" above soil dispersal system ystem requires "emergency" pumping erformed dye test nable to verify (See Comments/Explanation) other methods not listed (See Comments/Explanation)
2.		ank Integrity — Compliance com	nponent #2	? of 5	Verif	ication method(s):
-	Sy ce Se co Se de	rstem consists of a seepage pit, sspool, drywell, or leaching pit. epage pits meeting 7080.2550 may be impliant if allowed in local ordinance. ewage tank(s) leak below their signed operating depth.	☐ Yes ☑		□ P□ E□ C□ E	robed tank(s) bottom xamined construction records xamined Tank Integrity Form (Attach) bserved liquid level below operating depth xamined empty (pumped) tanks(s) robed outside tank(s) for "black soil"
	If yes, which sewage tank(s) leaks: Any "yes" answer above indicates the system is Failing to Protect Groundwater. Comments/Explanation: Lowered underwater camera into tank - baffles and tank walls OK. Lift pump and alarm were operational at the time of the inspection. □ Unable to verify (See Comments/Explanation) □ Other methods not listed (See Comments/Explanation) □ Other methods not listed (See Comments/Explanation)					ther methods not listed (See Comments/Explanation)
3.	Ot	ther Compliance Conditions	-	-		
	 a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ☐ No ☐ Unknown b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☐ No ☐ Unknown *System is an imminent threat to public health and safety Explain: 					
	C.	System is non-protective of ground wa *System is failing to protect ground Explain:		conditions as dete	rmine	d by inspector □ Yes* ⊠ No

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Property address: 13740 Oakhill Rd N, Scandia, MN 55073		Inspector initials/Date: 3/6	/2019 84 ()		
4.	Soil Separation — Compliance compor	nent #4 of 5			
	Date of installation: 1990 Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:	☐ Unknown☐ Yes ☑ No	Verification method(s): Soil observation does not expire. Proobservations by two independent paralleless site conditions have been alto	rties are sufficient,	
	For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	⊠ Yes □ No	requirements differ. Conducted soil observation(s) (A Two previous verifications (Attac Not applicable (Holding tank(s), not Unable to verify (See Comments/E Other (See Comments/Explanation)	h boring logs) o drainfield) 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: Drainfield has a three-foot vertical separation distance from periodically	☐ Yes ☐ No	Comments/Explanation: Reviewed previous compliance insp Reviewed design and permit records		
	"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically	☐ Yes ☐ No	A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation	See Attached Boring Log(s)	
5.	Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B.		D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local Ordinance. component #5 of 5 ■ Not applicable		
	Is the system operated under an Operating Permit?				
	Have the Operating Permit requirements b. b. Is the required nitrogen BMP in place and		☐ 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, 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.

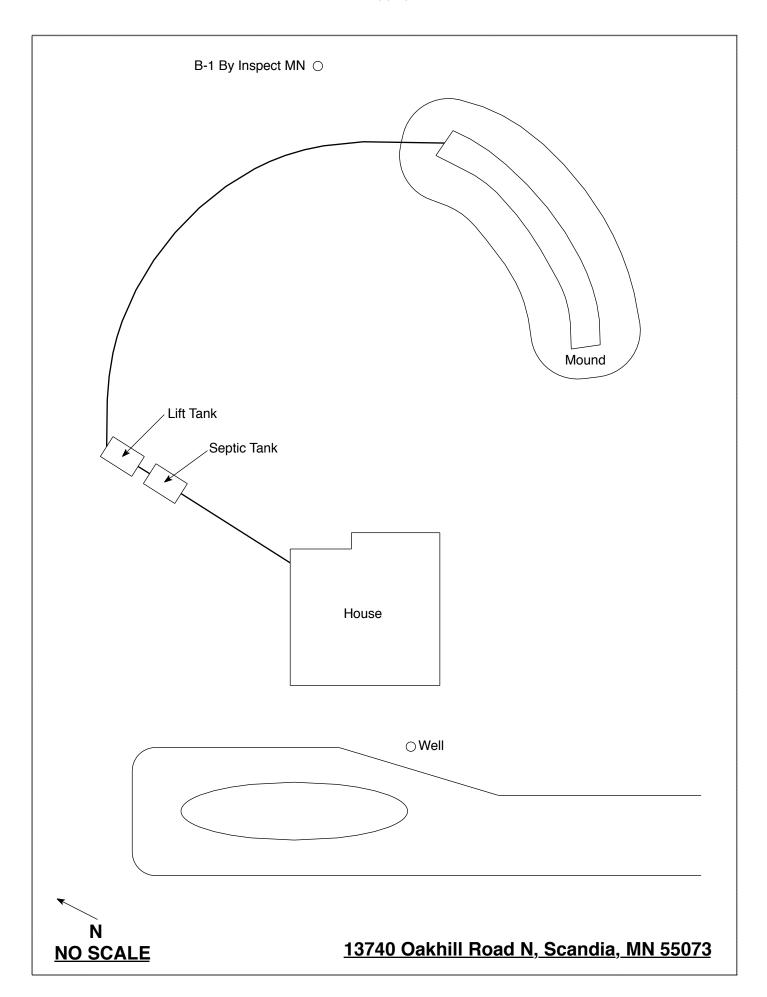
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Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: March 6, 2019	Time: 10:00 AM			
Property Address: 13740 Oakhill Rd N, Scandia, MN	Zip: 55073			
Property Owner: Paul Mack	Phone: 612-619-5088			
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.				
	Tank size (gals.): 1500			
How long has seller owned the property? Number of re	esidents in home?			
Number of bedrooms? 4 Are all floors drained by g				
Garbage disposal? N Whirlpool bath	? N			
More than one system (laundry, etc.)?				
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 additional systems on this property serving other bu	uildings?			
Location of septic system on lot? Tanks - North Side, Mound - Ea	ist Side			
Location of water well on lot? West Side Is the	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:				
J 1 1	pper: Ross' Sewer Service			
How often pumped in previous years?				
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the 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				

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.

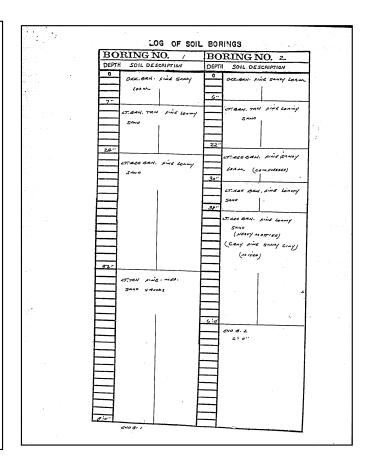


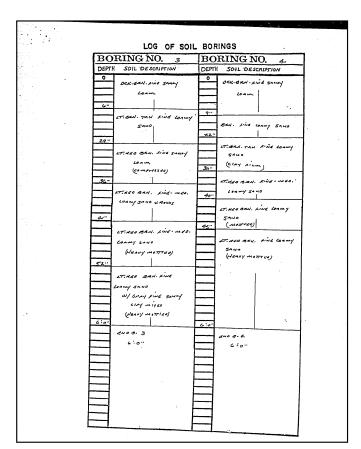
Log Of Soil Borings

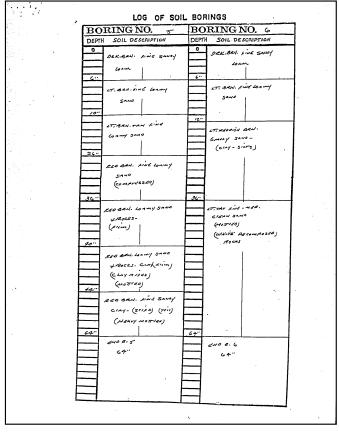
Location of Project: 13740 Oakhill Rd N, Scandia, MN 55073					
Borings Made By: Inspect Minnesota			Date:	3/6/19	
Auger Used: Hand/Bucket		Class	ification System:	USDA	
	Boring Number: 1			Boring Number:	
Surface	Surface 48" below top of mound on		Surface		
Elevation	levation of original contour		Elevation	of	
Boring	orig	illai contoui	Boring		
Depth In	Soils F	ncountered	Depth In Soils End		ncountered
Inches			Inches	<u> </u>	<u>icounterea</u>
0-12 12-20		. 2/2 Loam 4 Loamy Sand			
20-28		/4 Fine Sand			
28-36		Fine Sand With			
36-40		. 5/8 Redox Clay Loam With			
30 10		ew 10YR 6/2 Redox			
	•	•			
28"	Depth To End Of B	oring Or Redox		Depth To End Of B	oring Or Redox
+46"	Elevation Of Boring	g Below Top Of Mound		Elevation Of Boring	Relative To System
		Of Distribution Media		Depth To Bottom C	of Distribution Media
=42"	Of Separation			Of Separation	
	End Of Paring At-	40"		End Of Paring At-	I
	End Of Boring At:	28"		End Of Boring At:	
	Redox Present At:	-	Ctandina	Redox Present At:	
Standing Water Present At: None			Standing	Water Present At:	

Bottom Of Distribution Medium At: 32 Inches

Loc	<u>Log Of Soil Borings</u>				
	ation of Project: 1 orings Made By: I	3740 Oakhill Road	N, Scandia	, MN 55073 Date:	2/15/12
В	Auger Used: F	land/Bucket	Class	sification System:	2/15/12 USDA
	Boring Number:	1	Cido	Boring Number:	
Surface	43" bolow t	op of mound on	Surface	:	
Elevation		al contour	Elevation		
Boring Depth In	1		Boring Depth In		
Inches	Soils En	countered	Inches	Soils En	countered
0-8		2/2 Loam	11101103		
8-18 18-33		amy Fine Sand ine Sand With			
	10YR 3/3 Lar	nellae After 27"			
33-37		ine Sand With 1/6 Redox			
37-44	7.5YR 3/4 Sand	y Clay Loam With			
	7.5YR 5/8 &	5YR 5/8 Redox			
33"	Denth To End Of Bo	ring Or Peday		Death To End Of R	oring Or Peday
	Depth To End Of Bo			Depth To End Of Bo	
+43"	Elevation Of Boring	Below Top Of Mound		Elevation Of Boring	Relative To System
+43"		Below Top Of Mound			Relative To System
+43" -32" =44"	Elevation Of Boring Depth To Bottom Of Of Separation	Below Top Of Mound System		Elevation Of Boring Depth To Bottom O Of Separation	Relative To System
+43" -32" =44"	Elevation Of Boring Depth To Bottom Of Of Separation End Of Boring At:	Below Top Of Mound System 44"		Elevation Of Boring Depth To Bottom O Of Separation End Of Boring At:	Relative To System
+43" -32" =44"	Elevation Of Boring Depth To Bottom Of Of Separation	Below Top Of Mound System 44" 33"	Standing	Elevation Of Boring Depth To Bottom O Of Separation	Relative To System
+43" -32" =44"	Elevation Of Boring Depth To Bottom Of Of Separation End Of Boring At: Redox Present At:	Below Top Of Mound System 44"	Standing	Elevation Of Boring Depth To Bottom O Of Separation End Of Boring At: Redox Present At:	Relative To System
+43" -32" =44"	Elevation Of Boring Depth To Bottom Of Of Separation End Of Boring At: Redox Present At: Water Present At:	Below Top Of Mound System 44" 33"		Elevation Of Boring Depth To Bottom O Of Separation End Of Boring At: Redox Present At:	Relative To System







DISCLAIMER

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

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

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	



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

Nick Haig, Supervisor Certification and Training Unit