1 of 9

Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Be	ar Lake, MN 55110	Brian Humpal		
651-492-7550/Brian@Mid	westsoiltesting.com	MPCA Licensed Advanced Inspector		
SUBSURFACE SEWAGE	TREATMENT SYS	TEM (SSTS) COMPLIANCE REPORT		
Date: October 9, 2019	Time: 10:15 AM	Owner: Ron Sorensen & Andy Campeau		
Inspection Address: 321 Oak Knoll Dr, Marine On St Croix, MN 55047				

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Andy Campeau, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1982) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

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

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

Minnesota Pollution Control Agency	Compliance Inspection Form
520 Lafayette Road North St. Paul, MN 55155-4194	Existing Subsurface Sewage Treatment Systems (SSTS)
50, 1 ddi, Mil 55155-4154	Doc Type: Compliance and Enforcemen
ons: Inspection results based on Minnes onts and attached forms – additional loca	5 , ()

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

System Status

System status on date (mm/dd/yyyy): 10/9/2019

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

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:	321 Oak Knoll Dr,	Marine On St Croix, MN 5504	Reason fo	r inspe	ection: Property Transfer
Property owner: Ron Sorensen & Andy Campeau		Owner's p	Owner's phone: 651-433-4441		
or					
Owner's represen	tative:		Represent	ative p	phone:
Local regulatory authority: <u>Washington County</u>		on County	Regulator	y autho	prity phone:651-430-6655
Brief system description: _ A pre-cast septic tank and a rock trench drainf			drainfield.		
Comments or rec	ommendations.				

comments or recommendations:

Certification

wq-wwists4-31 • 1/24/12

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name:	Brian Humpal/Christopher Uebe	Certification number:	C5342/C9852
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signatur	e: Brian Humpal Afric Ma	Phone number:	651-492-7550
Necessary or	Locally Required Attachments		
Soil boring lo	ogs System/As-built drawing] Forms per local ordinan	се
🛛 Other inform	ation (list): _ Report Summary, Property Information, Di	sclaimer, License	
www.pca.state.mn.	us • 651-296-6300 • 800-657-3864 • TTY 651	-282-5332 or 800-657-3864	Available in alternative formats

acking purposes:

Impact on Public Health – Compliance component #1 of 5

Property address: 321 Oak Knoll Dr, Marine On St Croix, MN 55047

1.

Compliance criteria: Verification method(s): Searched for surface outlet System discharge sewage to the □ Yes ⊠ No Searched for seeping in yard/backup in home ground surface. Excessive ponding in soil system/D-boxes □Yes ⊠No System discharge sewage to drain tile Homeowner testimony (See Comments/Explanation) or surface waters. "Black soil" above soil dispersal system □ Yes ⊠ No System cause sewage backup into System requires "emergency" pumping dwelling or establishment. Performed dye test Any "yes" answer above indicates the system is Unable to verify (See Comments/Explanation) an Imminent Threat to Public Health and Safety. Other methods not listed (See Comments/Explanation) Comments/Explanation:

2. Tank Integrity - Compliance component #2 of 5

Compliance criteria:	-	
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes	🛛 No
Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		
Sewage tank(s) leak below their designed operating depth.	□ Yes	🛛 No
f yes, which sewage tank(s) leaks:		
Any "waa" anawar ahaya india	ataa tha	

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:

None of the above found.

Lowered underwater camera into tank - baffles and tank walls OK.

Verification method(s):

Probed tank(s) bottom
 Examined construction records
 Examined Tank Integrity Form (Attach)
 Observed liquid level below operating depth
 Examined empty (pumped) tanks(s)
 Probed outside tank(s) for "black soil"
 Unable to verify (See Comments/Explanation)
 Other methods not listed (See Comments/Explanation)

3. Other Compliance Conditions - Compliance component #3 of 5

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. 🗌 Yes* 🖾 No	
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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: 1982	Unknown	Verification method(s):
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🛛 No	Soil observation does not expire. Previous soil
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	 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/Explanation) 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	<i>Comments/Explanation:</i> 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 License required)		A. Bottom of distribution media See Attached Boring Log(s)
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		B. Periodically saturated soil/bedrock C. System separation
		D. Required compliance separation*
Any "no" answer above indicates t Failing to Protect Groundwater.	ne system is	*May be reduced up to 15 percent if allowed by LocaOrdinance.
Operating Permit and Nitrogen B	MP* – Complianc	ce component #5 of 5 🛛 🛛 Not applicable
Is the system operated under an Operating Per		
Is the system required to employ a Nitrogen BM		□ No If "yes", B below is required
BMP=Best Management Practice(s) specif		
If the answer to both questions is "no",	-	-
-		
Compliance criteria		
a. Operating Permit number:		□ Yes □ No

b. Is the required nitrogen BMP in place and properly functioning? **Any "no" answer indicates Noncompliance.**

Have the Operating Permit requirements been met?

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.

☐ Yes ☐ No

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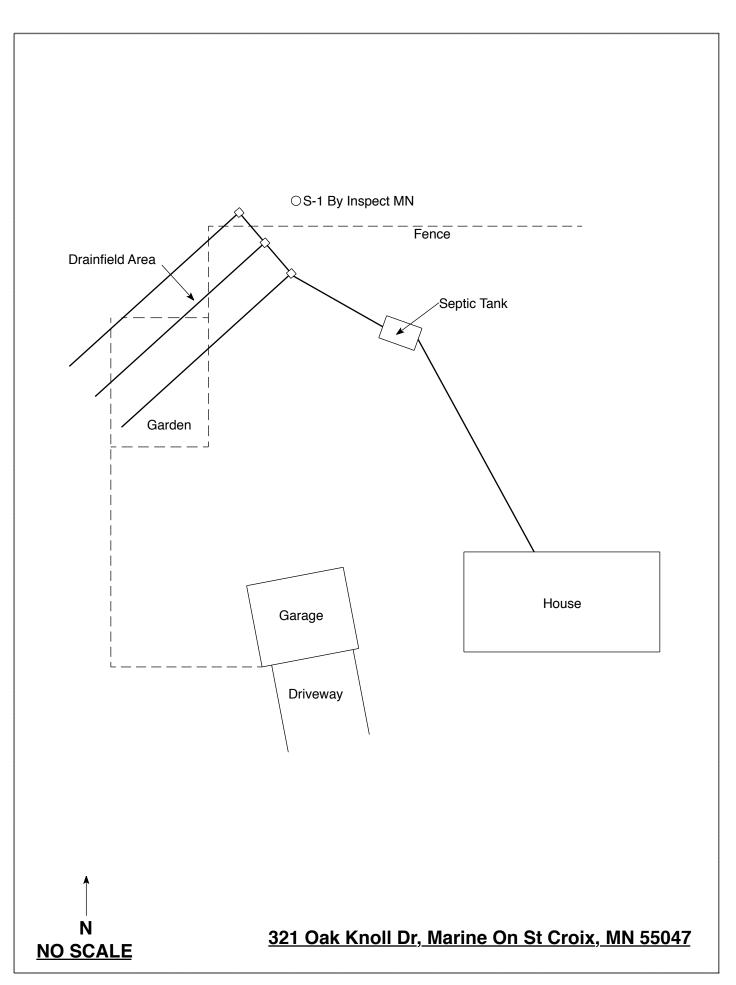
Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: October 9, 2019	Time: 10:15 AM				
Property Address: 321 Oak Knoll Dr, Marine On St Croix, MN	Zip: 55047				
Property Owner: Ron Sorenson & Andy Campeau	Phone: 651-433-4441				
Tank(s) Tank(s)Material Soil Treatment System	Other				
Septic 1 Fiberglass Rock trench	Alternative system				
Aerobic Plastic Gravelless trench	Experimental system				
□Lift □Metal □Chamber trench □Holding ⊠Concrete □Seepage bed	Cesspool system Other system				
Other: Block Mound					
Other At-grade					
Are the tank maintenance covers accessible? Yes X No *If no	o, proper maintenance must be				
performed through the maintenance holes. Maintenance hole cover	s should be made accessible to				
the ground surface to facilitate access and proper maintenance of the	e system.				
Year house built: 1982 Year septic installed: 1982 Ta	ank size (gals.): 1200				
How long has seller owned the property? 1992 Number of resi	dents in home? 2				
Number of bedrooms? Are all floors drained by gra					
Garbage disposal? Y Whirlpool bath? N	1				
More than one system (laundry, etc.)? N					
Does this property have any footing drain tiles connected 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 serving other buildings? N					
Location of septic system on lot? Northwest Side					
	vell 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? Y If yes, explain: Owner replaced old furnace with a high efficenty furnance about					
four years ago. Owner leaves for winter and there has been freezing issues do to the condensation					
leaving from the furance freezing. Recommend if vacationing during winter to have someone run					
water occasionally.					
When was the system last pumped? 2019Name of pumper: Pinky's Sewer Service					
How often pumped in previous years? Every 2Is 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: Andy Campeau's Signature On File



Soil Observations Log

Location of Project: 321 Oak Knoll Dr, Marine On St Croix, MN 55047							
Ot			Inspect Minnesota			Date:	10/9/19
C	lassific	ation System:	USDA				
	Soil	Observation:	1		Soil C	bservation:	
Surf Elevat Obser	ion of	-	nd surface as last field trench	Elevat	face tion of vation		
Depth In Inches	Rock %	<u>Soils E</u>	ncountered	Depth In Inches	Rock %	<u>Soils</u>	Encountered
0-20 20-31 31-40 40-50 50-72	≈20 ≈10 ≈10	7.5YR 3 10YR 3/4 Medie 10YR 4/4 Medie	4 Sandy Loam 4 Clay Loam um Sand With Gravel um Sand With Gravel um Sand With Gravel				
72"	Depth T	o End Of Soil O	bservation Or Redox		Depth T	o End Of Soil	Observation Or Redox
Same	Same Elevation Of Observation Relative To System				Elevatio	n Of Observat	tion Relative To System
-39" Depth To Bottom Of Distribution Media				Depth T	o Bottom Of I	Distribution Media	
≥33" Of Separation				Of Sepa			
		<u>.</u>					
End		Observation At:	72"	End Of		servation At:	
Redox Present At: None			Redox Present At:				
Standing Water Present At: None Standing Water Present At:							

Bottom Of Distribution Medium At: 39 Inches

Signature:

Alter Ula

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