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 COMPLIANCE REPORT

Inspection Address: 14733 113th St So, Denmark Twp, MN 55033

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Larry Haider, and have reviewed the original design/permit records on file at Washington County. This very old (installed in 1988) system consists of a precast septic tank and a rock trench drainfield.

Although not compliance criteria, it should be noted that the first drop box had ponding into the inspection pipe. There may be a blockage between the first and second drop box. This should be verified and serviced if necessary.

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. Washington County issued sewage treatment permit #4711 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 the Washington County Department of Public Health & Environment (651-430-6655) 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



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

	Bot Type. Compilative and Emorecment			
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):5/17/2018				
	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	public health and safety			
Other Compliance Conditions (Compliance Component #3) – Imminent thr				
☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er			
☐ Other Compliance Conditions (Compliance Component #3) – Failing to pro	tect groundwater			
Soil Separation (Compliance Component #4) − Failing to protect groundway				
☐ Operating permit/monitoring plan requirements (Compliance Component #	‡5) – Noncompliant			
• •	ge:			
or	- 			
Owner's representative: Represen	tative phone:			
Local regulatory authority: Washington County Regulator	Regulatory authority phone: 651-430-6655			
Brief system description: A pre-cast septic tank and a rock trench drainfield.				
Comments or recommendations:				
Although not compliance criteria, it should be noted that the first drop box had ponding blockage between the first and second drop box. This should be verified and serviced				
Certification				
I hereby certify that all the necessary information has been gathered to determine the of 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 Certificati	on number: <u>L5342</u>			
Business name: Inspect Minnesota, Midwest Soil Testing Licen	se number: <u>L2896</u>			
Inspector signature: Brian Humpal Pho	ne number: 651-492-7550			
Necessary or Locally Required Attachments				
	local ordinance			
☑ Other information (list): Report Summary, Property Information, Disclaimer, Lic				

Property address: _ 14733 113th St S, Denmark Twp, MN 55033

Inspector initials/Date: 5/17/2018

1.	Impact on Public Health – Compliance component #1 of 5							
	System of surface System of dwelling Any "you an Immediate Although	discharge sewage to drain tile be waters. cause sewage backup into or establishment. es" answer above indicates innent Threat to Public Head	☐ Yes☐ Yes☐ Yes☐ the sys athe sys at some sys at some sys at some sys at some sys at sys at some sys at sys at some sys at so	No stem is safety. d that the first dro		x had ponding into the inspection pipe. There may be		
2.	Tank I	ntegrity – Compliance cor	nponent #	#2 of 5				
	Compli	ance criteria:			Ve	erification method(s):		
	cesspoo Seepage	consists of a seepage pit, l, drywell, or leaching pit. pits meeting 7080.2550 may be if allowed in local ordinance.	☐ Yes	⊠ No		Examined Tank Integrity Form (Attach)		
	Sewage designed	tank(s) leak below their d operating depth.	☐ Yes	⊠ No		Observed liquid level below operating depth Examined empty (pumped) tanks(s) Probed 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.			 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 				
3.	Lowered	nts/Explanation: underwater camera into tank - Compliance Conditions			ent #	3 of 5		
	a. Maint	tenance hole covers are damage	d, cracked	, unsecured, or ap	pear	to structurally unsound. Yes* No Unknown		
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknow *System is an imminent threat to public health and safety							
	Expla	Explain:						
	-	em is non-protective of ground wa tem is failing to protect ground ain:		er conditions as d	eterm	ined by inspector ☐ Yes* ☒ No		

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

Property address: <u>147</u>33 113th St S, Denmark Twp, MN 55033

Inspector initials/Date: 5/17/2018

Soil Separation – Compliance component #4 of 5 Date of installation: 1988 Unknown Verification method(s): Shoreland/Wellhead protection/Food Beverage ☐ Yes ☐ No Soil observation does not expire. Previous soil Lodging? observations by two independent parties are sufficient. Compliance criteria: unless site conditions have been altered or local requirements differ. ☐ Yes ☐ No For systems built prior to April 1, 1996, and ☐ Conducted soil observation(s) (Attach boring logs) not located in Shoreland or Wellhead Protection Area or not serving a food, Two previous verifications (Attach boring logs) beverage or lodging establishment: ☐ Not applicable (Holding tank(s), no drainfield) Drainfield has at least a two-foot vertical ☐ Unable to verify (See Comments/Explanation) separation distance from periodically ☐ Other (See Comments/Explanation) saturated soil or bedrock. ☐ Yes ☐ No Non-performance systems built April 1, Comments/Explanation: 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 saturated soil or bedrock.* "Experimental", "Other", or "Performance" ☐ Yes ☐ No Indicate depths of elevations systems built under pre-2008 Rules; Type IV See Attached or V systems built under 2008 Rules (7080. A. Bottom of distribution media Boring Log(s) 2350 or 7080.2400 (Advanced Inspector License required) B. Periodically saturated soil/bedrock Drainfield meets the designed vertical 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 Failing to Protect Groundwater. Ordinance. 5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 Not applicable Is the system operated under an Operating Permit? ☐ Yes ☒ No If "yes", A below is required Is the system required to employ a Nitrogen BMP? ☐ 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 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, 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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5 of 10 WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 7711

Inspection of Installation Must Be Made By the Building Offical Before Any Portion of System is Covered Contact Planning Department, 779-5444, 24 Hour Notice Required

ARRY HAIDER
Owner
Property Address 14733: 11374 Specific PID # 29150 - 2020
Use of Building: Home Flow Rate: 4 Bo fm /6006FA Percolation Rate: 8 mpi
Septic Tank 1200 Gal. Liquid Capacity Lift Station (if needed) 1000 Gal.
Type of System: DOOP BOX SYSTEM DIVIDES 1270 4EG AC PARTS
Absorption Trench — Square Feet 762 Lineal Feet 254 Width 36
Depth of Rock Below Lines Inches, Above Lines & Inches
Depth of Trench From Existing Grade — Minimum 26 Inches, Maximum 42 Inches
Recommended-Number of Lines 40 64 (Note: Maximum Length of Individual Line is 100 Feet.)
Minimum Spacing of LinesFt. Center to Center
Special Conditions S4 STEM TO GO IN AROA TESTED AND
INDICATED OF ATTACHED SITE LAW. SYSTEMTORE
DIVIDED INTO 4 EQUAL PARTS BECAUSE OF SANDY
Continon.
PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within six (6) months. INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY.
Approved:
ZOTING AUTIMISTRATURALITION CO.
Comments BANEA REMAIL INSTALLER - 1250 TALIK
CLOSS for TREACH LENGTH, HAD TO ADD PORE IS GTE Line
Installation Approved Which Kalela Date 5/18/88
Inspector

11

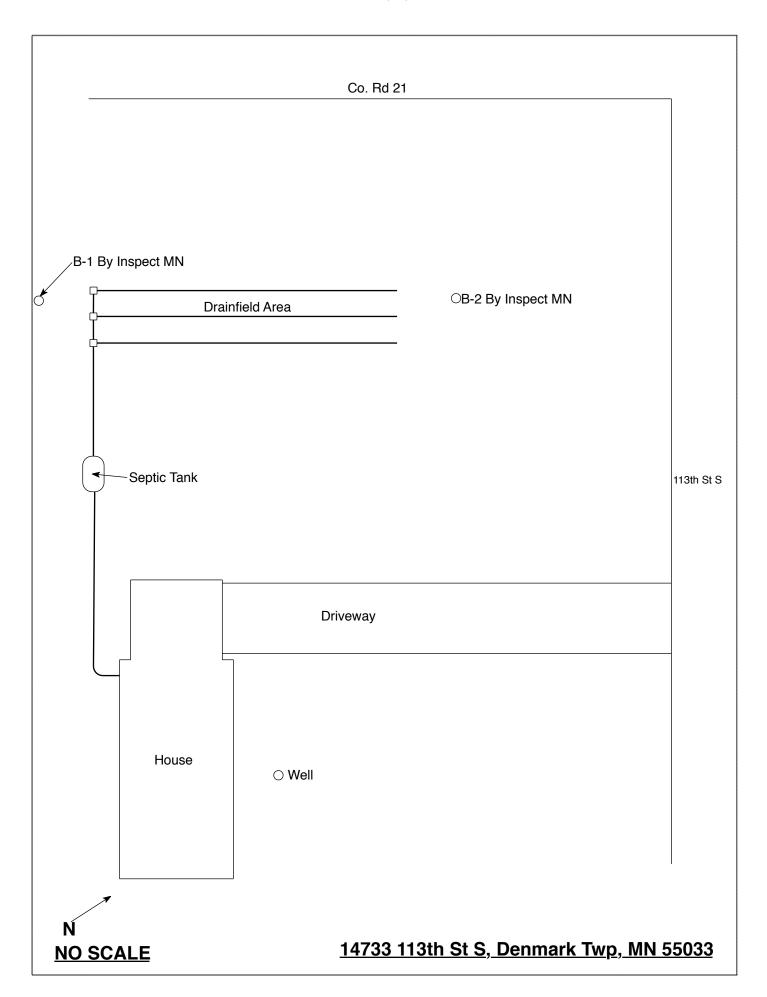
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: May 17, 2018	Time: 11:45 AM				
Property Address: 14733 133th St So, Denmark Twp, MN Zip: 55033					
Property Owner: Jean & Larry Haider	Phone: 651-437-6453				
Tank(s) Septic 1 Sept	Other Alternative system Experimental system Cesspool system Other system no, proper maintenance must be ears should be made accessible to				
	•				
	Γank size (gals.): 1250				
	sidents in home? 2				
Number of bedrooms? 3 Are all floors drained by g					
Garbage disposal? N Whirlpool bath?	N				
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					
	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? 2016 Name of pumper: Pinky's Sewer Service					
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: Larry Haider's Signature On File Date: 5/17/2018



Log Of Soil Borings

Location of Project: 14733 113th St So, Denmark Twp, MN 55033						
	Borings Made By: Inspect Minnesota			Dat	e:	5/17/18
Auger Used: Hand/Bucket			Class	sification Syste	m:	USDA
В	oring Number:	1	Boring Number: 2			2
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation of Boring Same ground surface as drainfield trench				
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered		
i constantinated		0-21		Silt Loam Loam (Very Dry) Im (Very Dry) With		
24" De	epth To End Of B	oring Or Redox	40"	Depth To End O	f Boı	ring Or Redox
Same Elevation Of Boring Relative To System		Same	Elevation Of Boring Relative To System			
-33" Depth To Bottom Of Distribution Media =0" Of Separation		-33" Depth To Bottom Of Distribution Media =7" Of Separation				
End Of Boring At: 60"				End Of Boring	٩t:	54"
Redox Present At: 24"				Redox Present	_	40"
Standing Water Present At: None			Standing	Water Present	٩t:	None

Bottom Of Distribution Medium At: 33 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.

Subsurface Sewage Treatment Systems Non-transferable Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2018

Issued: 10/10/2017

es:

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expir
C9633	Anthony P Scully	7/28/2018
	Installer, Designer (Conditional)	
C5342	Brian L Humpal	10/15/2020
	Installer, Maintainer, Serv Prov,	Adv Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2018
	Designer, Inspector	



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

Charles K Thompson, Supervisor Certification & Training Unit