Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Inspection Address: 7828 St Croix Trail S, Denmark Twp, MN 55033

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed design/permit records on file at Washington County. This system consists of two pre-cast septic tanks, a pre-cast lift tank, and a chamber trench drainfield.

Predicated on my inspection of the system and my review of the 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.

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. Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	For local tracking purposes:
System Status	
System status on date (mm/dd/yyyy):	
<u> </u>	•
Reason(s) for noncompliance (check all applicable)	
 □ Other Compliance Conditions (Compliance Component #3) – Imminent th □ Tank Integrity (Compliance Component #2) – Failing to protect groundwa □ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwa □ Soil Separation (Compliance Component #4) – Failing to protect groundwa 	reat to public health and safety ter otect groundwater vater
Property Information Parcel ID# or Sec/Two/Ran	ue.
·	-
· · ·	· · · · · · · · · · · · · · · · · · ·
or	
· · · · · · · · · · · · · · · · · · ·	
	ur drainneid.
Certification	
Inspector name: Brian Humpal Certifica	tion number: L5342
	nse number: L2896
Inspector signature: Brian Humpal Pho	one number: 651-492-7550
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days System Status System status on date (mm/dd/yyyy): 7/11/2016 Noncompliant - Notice of Noncompliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance) (See Upgrade Requirements on page 3) frame frame outlined in Local Ordinance) Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Date (Compliance Component #2) - Falling to protect groundwater Other Compliance Conditions (Compliance Component #3) - Falling to protect groundwater Other Compliance Compliance Component #3) - Falling to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #3) - Noncompliant Property Information Parcel ID# or Sec/Twp/Range: Property owner: Lyla Davies Owner's phone: Or Owner's representative: Laurie Ott (Coldwell Banker Burnet) Representative phone: 651-397-7707 Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052 Brief system description: Two pre-cast septic tanks, pre-cast lift tank, chamber trench drainfield. Certification Interest of the system, inadequate maintenance, or future water usage. Inspector name: Brian Humpal Leave Authority Phone Entered Values Authority Phone Entered Component Entered Values Entered Component Entered Component Entered Component Continue Compliance Component Continue Compliance Component Continue Component Continue Component Continue Component Continue Cont	
	local ordinance
☐ Other information (list): Report Summary, Property Information, Disclaimer, Li	

1.	Impact on Public Health – Co	mpliance compone	nt #1 of 5
<u>1. </u>	Impact on Public Health – Co Compliance criteria: System discharge sewage to the ground surface. System discharge sewage to drain tile or surface waters. System cause sewage backup into dwelling or establishment. Any "yes" answer above indicate an Imminent Threat to Public Health Comments/Explanation:	☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No es the system is	verification 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.	None of the above found. A soil boring over the drainfield indiacte Tank Integrity — Compliance con		or black/gray soils.
	Compliance criteria: System consists of a seepage pit,	☐ Yes ⊠ No	Verification method(s): ☑ Probed tank(s) bottom
	cesspool, drywell, or leaching pit. Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		 Examined construction records Examined Tank Integrity Form (Attach) Observed liquid level below operating depth
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	 ☐ Examined empty (pumped) tanks(s) ☐ Probed outside tank(s) for "black soil"
	If yes, which sewage tank(s) leaks: Any "yes" answer above indic system is Failing to Protect Gi		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
3.	Comments/Explanation: Lowered underwater camera into tanks Lift pump and alarm were operational at	- baffles and tank wa t the time of the inspe	ction.
	a. Maintenance hole covers are damage	ed, cracked, unsecured	d, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown
	b. Other issues (electrical hazards, etc.) to *System is an imminent threat to p		ersely impact public health or safety. Yes* No Unknown If yes*
	Explain:		
	c. System is non-protective of ground was *System is failing to protect ground Explain:		s as determined by inspector ☐ Yes* ☒ No

Property address: 7828 St Croix Trail S, Denmark Twp, MN 55033

Inspector initials/Date: 7/11/2016

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

Date of installation: 2010	Unkr	nown	Ve	erification method(s):			
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	⊠ No		oil observation does not expire. I			
Compliance criteria:				servations by two independent pless site conditions have been a			
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		quirements differ. Conducted soil observation(s) Two previous verifications (Att Not applicable (Holding tank(s),	ach boring logs)		
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,	⊠ Yes	□No	Co	omments/Explanation:			
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:			Re	eviewed design and permit recor	rds.		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*							
"Experimental", "Other", or "Performance"	☐ Yes	□No	No In	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)			<u>A</u> .	Bottom of distribution media	See Attached Boring Log(s)		
Drainfield meets the designed vertical separation distance from periodically				Periodically saturated soil/bedrock System separation			
saturated soil or bedrock.			D	Required compliance separation*			
Any "no" answer above indicates to Failing to Protect Groundwater.	he syste	em is	*M	lay be reduced up to 15 percent ordinance.	if allowed by Local		
Operating Permit and Nitrogen B	MP* – C	complianc	e comp	ponent #5 of 5 🛮 🗵 Not ap	plicable		
Is the system operated under an Operating Per	mit?	☐ Yes	⊠ No	If "yes", A below is required	I		
Is the system required to employ a Nitrogen BM	IP?	☐ Yes	⊠ No	If "yes", B below is required	I		
BMP=Best Management Practice(s) specific	ied in the	system de	sign				
If the answer to both questions is "no",	this sec	tion does	not n	eed to be completed.			
Compliance criteria			T				
a. Operating Permit number:				☐ Yes ☐ No			
Have the Operating Permit requirements to	peen met?	?					

Property address: 7828 St Croix Trail S, Denmark Twp, MN 55033

Inspector initials/Date: 7/11/2016

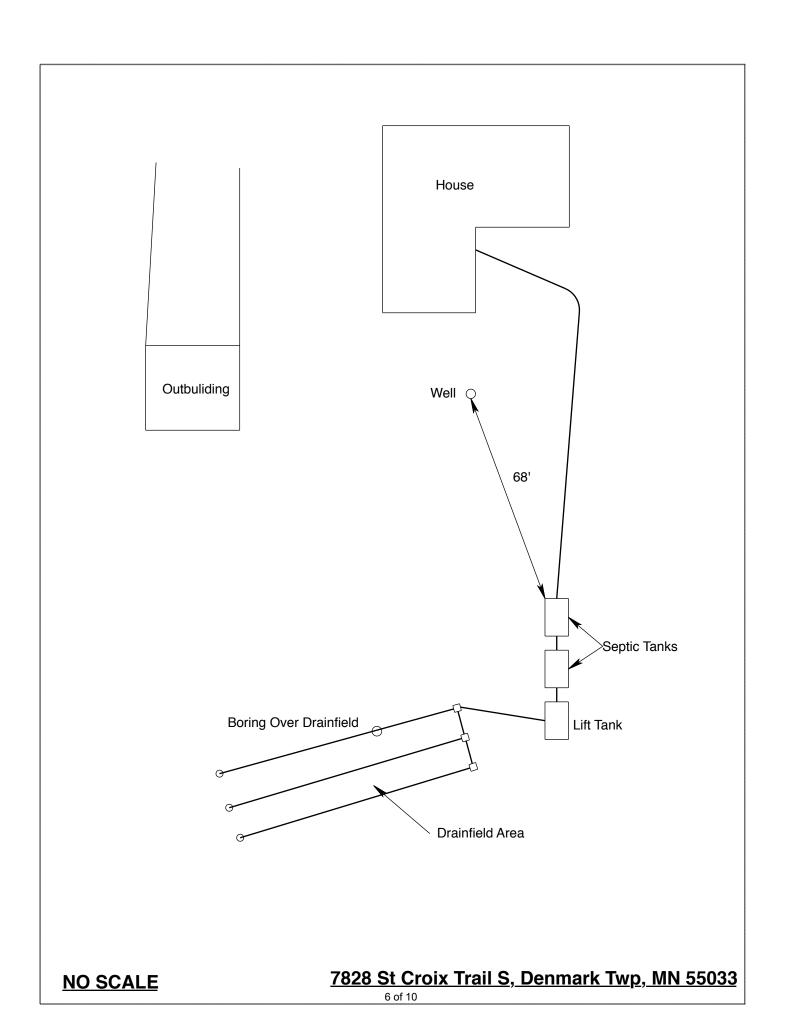
Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, 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.

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 •4 of **TO**Y 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 3 of 3

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: July 11, 2016	Time: 9:15 AM
Property Address: 7828 St Croix Trail S, Denmark Twp, MN Property Owner: Lyla Davies	Zip: 55033 Phone:
Tank(s) Tank(s)Material Soil Treatment System	Other
Septic 2	Alternative system Experimental system Cesspool system Other system
Are the tank maintenance covers accessible? Yes No *If performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the second surface.	ers should be made accessible to the system.
	Tank size (gals.): 2-1000
	sidents in home?
Number of bedrooms? 3 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	ss connected to this system?
Are there any additional systems on this property serving other bu	ildings?
Location of septic system on lot? West Side	
	e well a deep well? Y
Have you ever experienced any problems with the system such as surfacing of sewage onto the ground, septic tank overflowing, etc. to the system? If yes, explain:	
When was the system last pumped? Name of pum	per:
	n on a monitoring plan?
Have you received notices from any government agency concerning	ng this system?
Is your property located in a shoreland management area? N	
Do you have any additional information that should be given to the	e new owner?
I hereby certify that the above information is correct to the best of my knowledg considered "non-compliant/failing" per MPCA rules, that the inspector must by local government unit within 15 days of the date of inspection completion. I a this report, that I/we are ultimately responsible for payment of all fees for all we by Inspect Minnesota and Midwest Soil Testing.	law submit a copy of this report to the lso agree that unless otherwise noted in
Owner/Occupant:	Date:



SITE EVA EVALUATOR: PROPERTY AD	CHRIS	LE CU				SE ONLY	□ NEW	NG 🗆 LING 🗆	FBL ESTABLISH IN WELLHEAD	ESTABLISHMENT HMENT PROTECTION AREA	
DATE:	NAR?		TIME: 13:		<u> </u>			0 021	- 20-3	3-∞∞9	
SOIL CLASSIFI	CATION	MORECA LUKECA	,) SILT		200000000000000000000000000000000000000	EVIEW PARENT MATI BEDI	ERIAL: ZDCK/S		sh San		
		SOIL BORII	annages, syrya, an garges, and you	>1T#	(EL EVATION O	E BODING	SOIL BORI		0/30/2005	
ELEVATION O			LOCATION:			ELEVATION O		سائمہا یہ ط	L	247'52.04"	
GPS COORDIN	BORING	风	LON: PIT	□ PROB	E		BORING	14°56' 10.4	PIT	□ PROBE	
SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMOR FEATUR		SOIL HORIZON DEPTH (IN)	TEXTURE	COLOR	STRUCTURE	REDOXIMORPHIC FEATURES	
۵-۱۵"	LOAN	107R	SBK	NE)	30P11	SE TAKE	1 24 4	APT OF	SUBDIVISION	
16"-40"	SILT	74 04	SBK	2	9	MPPR	DUAL F	OR HON	LESTEAL) FARMS	
40"-70"	SILT	10 YR	SBK	20	י	BOR	ころして	D 72"	RED	TILL	
						10	RED	DX, i	O B	ED ROCK	
								/			
9-1				SOIL RE	VIEW	CONCLUSI	ONS				
Ø—SITE SU	JITABLE			DEPTH	INFOR	MATION:		SOIL	EXTURE:	MAON	
☐ UNSUIT	TABLE SOIL RBED SOIL	STAND	ING WATER:	70	SATURATED SOIL:			NO SOIL		5,5-0,6	
□ СОМРА	ACTED SOIL	BEDRO	OCK:	CK: NO MAXIM		NUM DEPTH OF SYSTEM: ろん"		ρ'' LINEA	LINEAR LOADING RATE:		
1200					SITER	EVIEW		Eller gestern			
	CHECK A	LL THAT APP	LY		EASEM	ENTS ON LOT			SETBACKS		
□ WETLA	AND OR WETL	AND VEGETAT	ION			UTILITY	BLUF	FLINE			
□ POND,	LAKE, STREA	M, RIVER			n	DRAINAGE	RIVER	RIVER			
□ 10 YEA	AR FLOOD ELE	VATION			POND, LAKE, STREAM, WETLAND						
☐ BLUFFLINE ☐ WELL WELL CASING DEPTH:					ы	OTHER	WELL				
								· · · · · · · · · · · · · · · · · · ·			
COMMENTS/N	OTES: BA	SED ON	S PIT 0	BSERUA	4017	E 40 c	30 MAR	0105	alia	SOIL	
BORIN	JE 7A	KEN	oh 3c	ح لرد	<u></u> 5	THE	SITE	ال کی ا	TABLE	FOR THE	
545	TEM	DESI	ED	022	414	S 3F	EET O	FUER	TICAL	FOR THE SEPARATIO	
	<u> </u>										

60		-1					>	.2
LOG OF SOIL BORINGS	Extavahm 2 B2	Black loam topsoil	Radi brown Silty clay	10am 21/3 30	Wedium brown Silty clay	104,4/3	89	
[rail	Excavetin /	Black loam topsoil	Rad brown 2 silt joan	5gr 4/3	Medium brown	511t 10yr4/3	70	
Job 1828 St. Craix Trail	Depth in Fest		8		4	19	Ø	2

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