### **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:** 16630 154<sup>th</sup> St N, May Twp, MN 554047

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Chris Huber, and have reviewed the original design/permit records, along with a previous compliance inspection from 2013, which were on file at Washington County. This older system (installed in 1993) consists of two pre-cast septic tanks and a gravelless trench drainfield.

Although not a compliance criteria, it should be noted that gravelless pipe is no longer approved for installation in the State of Minnesota and we have had experience with this product having significantly reduced performance and/or life expectancy. We cannot guarantee the performance of this system beyond the compliance date (7/1/2019).

Predicated on my inspection of the system, my review of the history of the system with the owner, 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

	Faul hard the chine was a second
<b>Instructions:</b> 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):	
•	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 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	eat to public health and safety er tect groundwater ater
☐ Operating permit/monitoring plan requirements (Compliance Component ‡	-o) – Noncompilant
☐ Operating permit/monitoring plan requirements (Compliance Component ‡	о) – Noncompilani
Property Information  Operating permit/monitoring plan requirements (Compliance Component #	
Property Information Parcel ID# or Sec/Twp/Rang	
Property Information       Parcel ID# or Sec/Twp/Range         Property address:       16630 154 <sup>th</sup> St N, May Twp, MN 55047       Reason for the company of the c	ge:
Property Information Parcel ID# or Sec/Twp/Ranger Property address: 16630 154 <sup>th</sup> St N, May Twp, MN 55047 Reason for Owner's por	ge: or inspection: Property Transfer ohone: 651-351-7689
Property Information Property address: 16630 154 <sup>th</sup> St N, May Twp, MN 55047 Property owner: Chris Huber Owner's por  Owner's representative: Represent	ge: or inspection:Property Transfer
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Property Information       Parcel ID# or Sec/Twp/Range         Property address:       16630 154 <sup>th</sup> St N, May Twp, MN 55047       Reason for         Property owner:       Chris Huber       Owner's por         Owner's representative:       Representative:       Regulatory authority:	ge:
Property Information  Property address: 16630 154 <sup>th</sup> St N, May Twp, MN 55047  Property owner: Chris Huber  Owner's por  Owner's representative:  Local regulatory authority: Washington County  Brief system description: Two pre-cast sepic tanks and a gravelless trench drainfield Comments or recommendations:  Although not a compliance criteria, it should be noted that gravelless pipe is no longer a Minnesota and we have had experience with this product having significantly reduced property address: Parcel ID# or Sec/Twp/Ranger Reason for Parcel ID# or Sec/Twp/Ra	ge:
Property Information Property address:16630 154 <sup>th</sup> St N, May Twp, MN 55047 Property owner:Chris Huber Owner's por Owner's representative: Representative: Regulator Regulatory authority:Washington County Brief system description:Two pre-cast sepic tanks and a gravelless trench drainfield Comments or recommendations: Although not a compliance criteria, it should be noted that gravelless pipe is no longer a Minnesota and we have had experience with this product having significantly reduced product guarantee the performance of this system beyond the compliance date (7/1/201)  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 unknown.	ge:
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Property Information Property address:16630_154 <sup>th</sup> St N, May Twp, MN 55047 Reason for Property owner:Chris Huber Owner's por Owner's representative:	ge:
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Property address: 16630 154th St N, May Twp, MN 55047

Inspector initials/Date: 7/1/20198#

1.	Impact on Public Health – C	ompliance componer	nt #1 of 5		
	Compliance criteria:		Verification method(s):		
	System discharge sewage to the ground surface.	☐ Yes ⊠ No	<ul><li>☑ Searched for surface outlet</li><li>☑ Searched for seeping in yard/backup in home</li></ul>		
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	<ul><li>Excessive ponding in soil system/D-boxes</li><li>Homeowner testimony (See Comments/Explanation)</li></ul>		
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping		
	Any "yes" answer above indicate an Imminent Threat to Public He	-	<ul> <li>Performed dye test</li> <li>Unable to verify (See Comments/Explanation)</li> <li>         ∑ Other methods not listed (See Comments/Explanation)</li> </ul>		
2.		e with this product havi his system beyond the	velless pipe is no longer approved for installation in the State of ing significantly reduced performance and/or life expectancy. We compliance date (7/1/2019).		
<b>Z.</b>	Compliance criteria:	omponent #2 of 5	Verification method(s):		
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	<ul> <li>☑ Probed tank(s) bottom</li> <li>☑ Examined construction records</li> </ul>		
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		<ul><li>Examined Tank Integrity Form (Attach)</li><li>Observed liquid level below operating depth</li></ul>		
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ☐ No	☐ Examined empty (pumped) tanks(s)		
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"		
	Any "yes" answer above indic system is Failing to Protect G		<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>		
3.	Comments/Explanation: Lowered underwater camera into tanks  Other Compliance Condition				
	a. Maintenance hole covers are damag	ed, cracked, unsecured	, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown		
	b. Other issues (electrical hazards, etc.) to *System is an imminent threat to p		rsely impact public health or safety.   Yes*   No  Unknown		
	Explain:				
	c. System is non-protective of ground v *System is failing to protect ground Explain:		s as determined by inspector ☐ Yes* ☒ No		

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Inspector initials/Date: 7/1/2019 Property address: 16630 154th St N, May Twp, MN 55047 **Soil Separation** – Compliance component #4 of 5 Date of installation: 1993 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, unless site conditions have been altered or local Compliance criteria: requirements differ. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead ☐ Conducted soil observation(s) (Attach boring logs) 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 Reviewed previous compliance inspection from 2013. systems located in Shoreland or Wellhead Protection Areas or serving a food, Reviewed design and permit records. 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. Boring Log(s) A. Bottom of distribution media 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 ☐ Yes ☐ No If "yes", A below is required Is the system operated under an Operating Permit? 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? ☐ Yes ☐ No b. Is the required nitrogen BMP in place and properly functioning?

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: July 1, 2019	Time: 11:30 AM			
Property Address: 16630 154 <sup>th</sup> St N, May Twp, MN Zip: 55047				
Property Owner: Chris Huber	Phone: 651-351-7689			
Tank(s) Tank(s)Material Soil Treatment System	Other			
Septic 2 Fiberglass Rock trench  Aerobic Plastic Septiless trench  Lift Metal Chamber trench  Holding Concrete Seepage bed  Other: Block Mound  Other At-grade	Alternative system Experimental system Cesspool system Other system			
Are the tank maintenance covers accessible?   Yes  No *If the performed through the maintenance holes. Maintenance hole cover the ground surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface to facilitate access and proper maintenance of the surface	ers should be made accessible to			
Year house built: 1901 Year septic installed: 1993	Γank size (gals.): 1-1250, 1-1000			
How long has seller owned the property? 2013 Number of re-	sidents in home? 3-5			
Number of bedrooms? 4 Are all floors drained by gr	ravity? Y			
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 bu	ildings? N			
Location of septic system on lot? East 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? 2019 Name of pum	per: 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: Chris Huber's Signature On File Date: 7/1/2019

#### **Log Of Soil Observations**

Location of Project: 16630 154th St N, May Twp, MN 55047					
Observations Made By: Inspect Minnesota			Date: 7/1/19		7/1/19
Auger Used: Hand/Bucket		Class	ification System:	USDA	
S	oil Observation:	1	9	Soil Observation:	
Surface Elevation of Observation	:	ind surface as last ofield trench	Surface Elevation of Observation		
Depth In Inches	Soils E	<u>ncountered</u>	Depth In Inches Soils Encountered		ncountered_
0-10 10-15 15-40 40-64	10YR 4/6 10YR 4/6 Loam ≈15-25% ∣	B Loamy Sand S Loamy Sand S Loamy Sand My Sand With Gravel Rock Fragments dium To Fine Sand			
64" [	64" Depth To End Of Soil Observation Or Redox			Depth To End Of Soi	Il Observation Or Redox
Same E	Elevation Of Observ	ation Relative To System		Elevation Of Observa	ation Relative To System
		Of Distribution Media		Depth To Bottom C	of Distribution Media
≥32" (	Of Separation			Of Separation	
End 05 0-	il Obgomistics At-	6.411	End 04 0	oil Obcomistics At-	
	il Observation At:	64"	Ena Or So	Dil Observation At:	
Redox Present At: None		Redox Present At: Standing Water Present At:			
Standing Water Present At: None Standing			vvater Fresent At:		

Bottom Of Distribution Medium At:	32 Inches

### **Log Of Soil Borings**

Location of Project: 16630 154th Street, Marine, MN 55047					
Borings Made By: Inspect Minnesota			Date:		8/13/08
Auger Used: Hand/Bucket			Classification System: USDA		
E	Boring Number:	1		Boring Number:	
Surface Elevation o Boring	MT I	p of ground at last ield drop box	Surface Elevation of Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	countered
0-18 18-44 44-52 52-72	5YR 3/4 Loai 7.5YR 4	5/1 Silt Loam my Sand & Gravel /4 Fine Sand R 4/4 Sand			
72" Depth To End Of Boring Or Mottled Soils			Depth To End Of Bo	oring Or Mottled Soils	
Same E	Elevation Of Boring	g Relative To System		Elevation Of Boring	Relative To System
-32" C	Depth To Bottom (	Of System		Depth To Bottom C	of System
	Of Separation			Of Separation	
	E., 4 Of D. 1 At	70"		E 4 Of D	
	End Of Boring At:	72"	NA - 1 - 1	End Of Boring At:	
	d Soil Present At:	None	Mottled Soil Present At:		
Standing Water Present At: None		Standing	Water Present At:		

<b>Bottom</b>	Of Distribution	Madium At	32	Inches
DOLLOIII	OI DISHIDUHOH	Mediuili At.	32	miches

•					B-31
Locatio	n or Project Art Monson prop., 11	ac	re parce	1, Sec. 31, T31N, R20W	
Borings	made by <u>Chris Zierke</u>		<del></del> -	Date3/23/93	
Classif	ication System: AASHO; USDA	4-5	SCS x	; Unified; other _	
Auger u	sed (check two): Hand $x$ , or Pow	Je I	r; F]	light, or Bucket _x_	other Backhoe
Depth, in feet	Boring number B-3 Surface elevation	- - -	Depth, in feet	Boring number B=4 Surface elevation	
0	Dark-gray sandy loam		0 —	Dark-grayssandy loam	-
1	Brown loamy gravel, numerous pebbles		1 14"	_	
2			2 —	Brown sandy loam, pebble	s common
3 —	Brown gravel, numerous pebbles and	<b>4</b> 1	3	-	
4 —	cobbles, occasional phin(4-6") layers of brown medium sand		4 —	Brown gravel, loamy in p erous pebbles and cobble al thin sand layers	
66"	Brown medium to fine-grained sand		5 —		
6 <del></del> . 78"			6 —	-	
7 —			7 —		
8 —			8 —		
	poring at <u>6월</u> feet. g water table:			boring at 6 fee	t.
	at feet of depth,		Ì	at feet of dept	h.
·	hours after boring.			hours after boring	1
Not pres	sent in boring hole <u>x</u> .		t .	sent in boring hole x	
Mottled soil:			Mottled soil:		
Observed at feet of depth.			Observe	d at feet of dep	th.
Not pres	sent in boring hole x.		Not pre	sent in boring hole	
Observat	ions and comments:	•	•	tions and comments:	i

#### **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 1<sup>st</sup> through April 1<sup>st</sup>) 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)	, v .
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