Midwest Sewer Services

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

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: September 29, 2022 **Time:** 12:30 PM **Owner:** Jake & Ally Fernholz

Inspection Address: 11048 11th St N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This system consists of a very old pre-cast septic tank (installed in 1989) and a plastic septic tank, a plastic lift tank, and a seepage bed (installed in 2016). Meyer Sewer Service pumped the septic tank on September 29, 2022. It should be noted that the average life expectancy of a septic component is approximately 30 years.

Although not a compliance criteria, it should be noted that the second septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance of the lift pump.

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

Midwest Sewer Services 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. Midwest Sewer Services 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

NOTE: This report is not complete without the inclusion/attachment of the additional pages which consist of up to three (3) MPCA drafted Compliance Inspection Documents, one (1) Homeowner/Occupant Information Sheet (when obtainable), one (1) site diagram, one (1) log of soil boring(s), one (1) Brian L Humpal, Inc. Disclaimer Sheet, and one (1) MPCA License.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information

Local tracking number:

Parcel ID# or Sec/Twp/Range: Reason for Inspection Property Transfer

Local regulatory authority info: Washington County

Property address: 11048 11th St N, Lake Elmo, MN 55042

Owner/representative: Jake & Ally Fernholz Owner's phone: 651-398-3743

Brief system description: A pre-cast septic tank, a plastic septic tank, a plastic lift tank, and a seepage bed.

System status

System status on date (mm/dd/yyyy): 9/29/2022

☒ **Compliant – Certificate of compliance***

*(**Valid for 3 years from report date** unless evidence of an imminent threat to public health or safety requiring removal and abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)*

***Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.**

☐ **Noncompliant – Notice of noncompliance**

Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.

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 or under section 145A.04 subdivision 8.

Reason(s) for noncompliance (check all applicable)

☐ Impact on public health (Compliance component #1) – *Imminent threat to public health and safety*
☐ Tank integrity (Compliance component #2) – *Failing to protect groundwater*
☐ Other Compliance Conditions (Compliance component #3) – *Imminent threat to public health and safety*
☐ Other Compliance Conditions (Compliance component #3) – *Failing to protect groundwater*
☐ System not abandoned according to Minn. R. 7080.2500 (Compliance component #3) – *Failing to protect groundwater*
☐ Soil separation (Compliance component #5) – *Failing to protect groundwater*
☐ Operating permit/monitoring plan requirements (Compliance component #4) – *Noncompliant - local ordinance applies*

Comments or recommendations

Certification

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.

***By typing my name below**, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.*

Business name: Midwest Sewer Services Certification number: 5342/9852

Inspector signature: Brian Humpal License number: L2896

(This document has been electronically signed)

Phone: 651-492-7550

Necessary or locally required supporting documentation (must be attached)

☒ Soil observation logs ☒ System/As-Built ☐ Locally required forms ☒ Tank Integrity Assessment ☐ Operating Permit
☒ Other information (list): Report Summary, Property Information, Disclaimer

Property Address: 11048 11th St N, Lake Elmo, MN 55042

Business Name: Midwest Sewer Services Date: 9/29/2022

1. Impact on public health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface	☐ Yes* ☒ No
System discharges sewage to drain tile or surface waters.	☐ Yes* ☒ No
System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No

Any "yes" answer above indicates the system is an imminent threat to public health and safety.

Describe verification methods and results:

None of the above found.

Attached supporting documentation:

☐ Other:

☐ Not applicable

2. Tank integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ☒ No
Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☒ No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

Attached supporting documentation:

☒ Empty tank(s) viewed by inspector

Name of maintenance business: Meyer Sewer Service

License number of maintenance business: L915

Date of maintenance: 9/29/2022

☐ Existing tank integrity assessment (Attach)

Date of maintenance (mm/dd/yyyy): (must be within three years)

(See form instructions to ensure assessment complies with Minn. R. 7082.0700 subp. 4 B (1))

☐ Tank is Noncompliant (pumping not necessary – explain below)

☐ Other:

Property Address: 11048 11th St N, Lake Elmo, MN 55042
Business Name: Midwest Sewer Services Date: 9/29/2022

3. Other compliance conditions – Compliance component #3 of 5

3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unsecured?
☐ Yes* ☒ No ☐ Unknown

3b. Other issues *(electrical hazards, etc.)* to immediately and adversely impact public health or safety? ☐ Yes* ☒ No ☐ Unknown

Yes to 3a or 3b - System is an imminent threat to public health and safety.

3c. System is non-protective of ground water for other conditions as determined by inspector? ☐ Yes* ☒ No

3d. System not abandoned in accordance with Minn. R. 7080.2500? ☐ Yes* ☒ No

***Yes to 3c or 3d - System is failing to protect groundwater**.*

Describe verification methods and results:

Attached supporting documentation: ☒ Not applicable ☐ _____

4. Operating permit and nitrogen BMP* – Compliance component #4 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 specified in the system design? ☐ 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. Have the operating permit requirements been met? ☐ Yes ☐ No

b. Is the required nitrogen BMP in place and properly functioning? ☐ Yes ☐ No

Any "no" answer indicates noncompliance.

Describe verification methods and results:

Attached supporting documentation: ☐ Operating permit (Attach) ☐

Property Address: 11048 11th St N, Lake Elmo, MN 55042

Business Name: Midwest Sewer Services Date: 9/29/2022

5. Soil separation – Compliance component #5 of 5

Date of installation 2016 ☐ Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? ☒ Yes ☐ No

Compliance criteria (select one):

5a. *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*
5b. *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 saturated soil or bedrock.*	☒ Yes ☐ No*
5c. *"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Any "no" answer above indicates the system is failing to protect groundwater.

Describe verification methods and results:

Attached supporting documentation:

☐ Soil observation logs completed for the report

☒ Two previous verifications of required vertical separation

☐ Not applicable (No soil treatment area)

☒ Reviewed design and permit records.
Wellhead protection area.

Indicate depths or elevations

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

*May be reduced up to 15 percent if allowed by Local Ordinance.

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.*

Midwest Sewer 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: September 29, 2022	Time: 12:30 PM
Property Address: 11048 11th St N, Lake Elmo, MN	Zip: 55042
Property Owner: Jake & Ally Fernholz	Phone: 651-398-3743

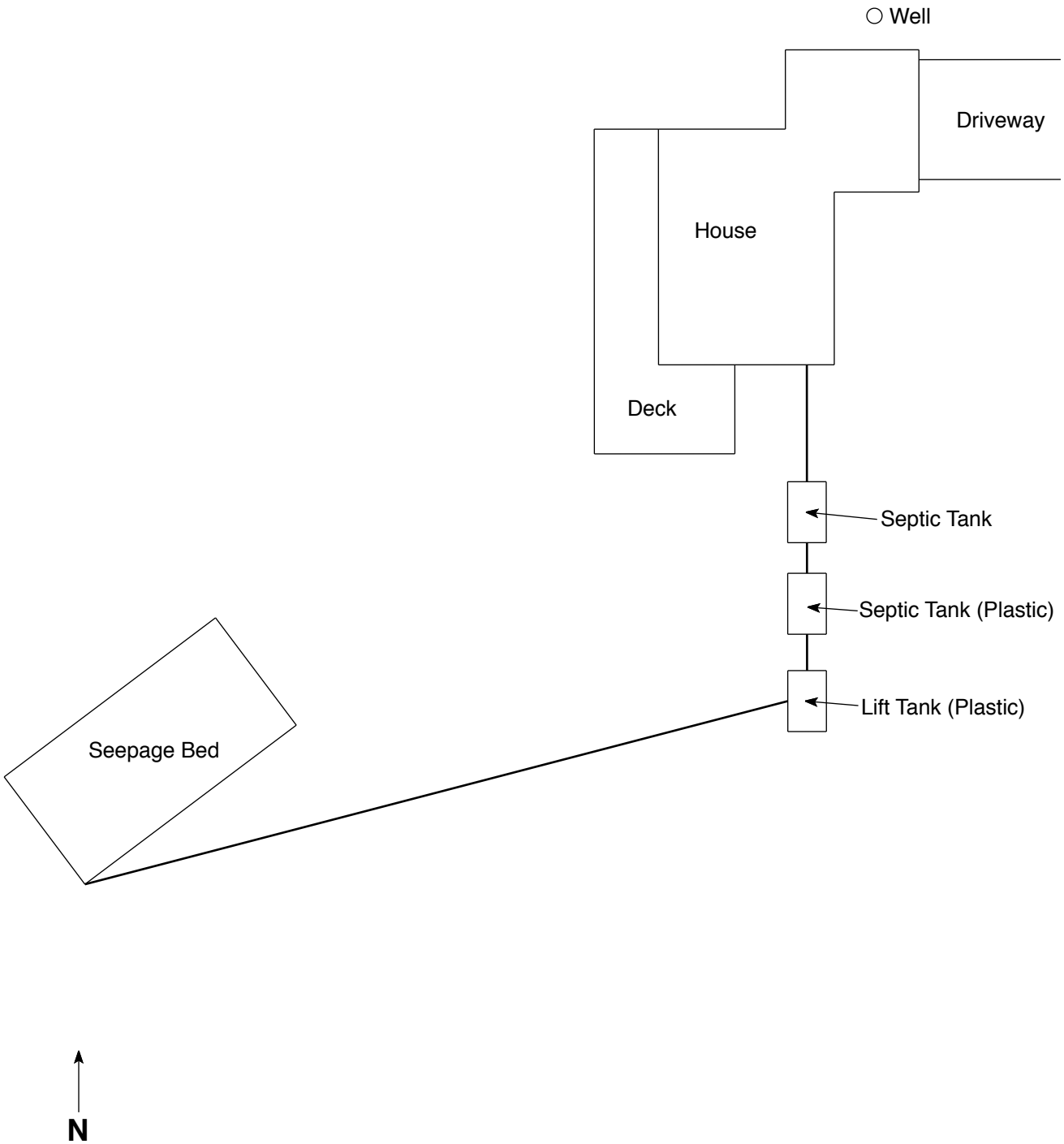
Tank(s)	Tank(s)Material	Soil Treatment System	Other
☒Septic 2	☐Fiberglass	☐Rock trench	☐Alternative system _____
☐Aerobic	☒Plastic(Septic & Lift)	☐Gravelless trench	☐Experimental system _____
☒Lift	☐Metal	☐Chamber trench	☐Cesspool system _____
☐Holding	☒Concrete	☒Seepage bed	☐Other system _____
☐ Other:	☐Block	☐Mound	_____
	☐Other _____ ☐At-grade		_____

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.

Year house built: 1989	Year septic installed: 2016	Tank size (gals.): 1-1500, 1-1000
How long has seller owned the property?		Number of residents in home?
Number of bedrooms? 4	Are all floors drained by gravity?	
Garbage disposal?		Whirlpool bath?
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 buildings?		
Location of septic system on lot? Tanks - South Side, Seepage Bed - Southwest Side		
Location of water well on lot? North Side		Is the 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:		
When was the system last pumped? 9/29/2022		Name of pumper: Meyer Sewer Service
How often pumped in previous years?		Is system on a monitoring plan?
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 by Inspect Minnesota and Midwest Soil Testing

Owner/Occupant: Date:



NO SCALE

11048 11th St N, Lake Elmo, MN 55042

Washington County

Installation Permits Installation Permit Site Review UID # 8600
Installation Permit: Permit # 2017-0466
Status: Review Complete

Washington County Public Health & Environment
14949 - 62ND ST N, PO BOX 6,
STILLWATER, MN
55082-0006
(651) 430-6655
FAX (651) 430-6730

Site Inspection

Date of the soil observation:	5/10/2017
Inspector:	Chris LeClair
GPS Latitude :	44.96422751 Latitude
GPS Longitude:	-92.88265496 Longitude
Soil Parent Material Select all that apply:	Outwash
Parent Material:	Superior Lobe Outwash
Landscape Position Please choose one:	Summit
Vegetation:	Lawn
Soil Survey Map Unit(s) with description:	49B-Antigo Silt Loam 2-6%

Soil Horizon Level 1

Depth:	0-10" Inches
Texture:	silt loam
Matrix Color:	10YR3/2
Structure/Shape:	Blocky
Structure/Grade:	Moderate
Structure/Consistence:	Friable
Is this the Restrictive Layer?	No

Soil Horizon Level 2

Depth:	10-19" Inches
Texture:	silt loam
Matrix Color:	10YR4/6
Structure/Shape:	Blocky
Structure/Grade:	Moderate
Structure/Consistence:	Friable
Is this the Restrictive Layer?	No

Soil Horizon Level 3

Depth:	19-36" Inches
Texture:	coarse sand
Matrix Color:	7.5YR4/6
Rock Fragment %:	0-35%
Structure/Shape:	Single grain
Structure/Grade:	Weak
Structure/Consistence:	Loose
Is this the Restrictive Layer?	No

Soil Horizon Level 4

Depth:	36-72" Inches
Texture:	sand
Matrix Color:	7.5YR4/4
Rock Fragment %:	0-35%
Structure/Shape:	Single grain
Structure/Grade:	Weak
Structure/Consistence:	Loose
Is this the Restrictive Layer?	Yes

Restricitve Layer Depth

Depth to Restriction:	72 Inches

Approvals

Approval	Signature
#1 Site Review Performed	Christopher W. LeClair REHS - 05/10/2017 10:20 AM f91aeaa6b16eb4e135c45ea1751f8cc3 784c4c30ae29aa7026a89c1c0145c2a5

Public Notes

Text:	
File(s):	

Internal Notes

Text:	
File(s):	

LOGS OF SOIL BORINGS

Location of Project Rick Nasby, Tartan Meadows, Sec. 25, City of Lake Elmo, Washington Co.
Borings Made by Ben Zierke Date: 11/14/16
Hand bucket auger used for borings; USDA – SCS Soil Classification used.

Depth, In Feet	Boring Number 1
0-------	----------
0-8"	Dark-brown sandy loam(10YR-3/3)
8-32"	Yellowish-brown loam(10YR-5/4)
32-72"	Dark yellowish-brown medium sand(10 YR-4/4), occasional pebbles

End of boring at 6 feet.
Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole ☒
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole ☒
Comments:

Depth, In Feet	Boring Number 2
0-------	----------
0-10"	Dark-brown sandy loam(3/3)
10-15"	Yellowish-brown loam(5/4)
15-66"	Dark y-brown medium to coarse-gr. Sand(10YR-4/4), occasional pebbles
	obstruction

End of boring at 5.5 feet.
Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole ☒
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole ☒
Comments:

Depth, In Feet	Boring Number 3
0-------	----------
0-12"	Dark-brown sandy loam(3/3)
12-24"	Yellowish-brown loam(5/4)
24-72"	Dark y-brown medium sand(4/4), occas- lonal pebbles
	obstruction

End of boring at 6 feet.
Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole ☒
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole ☒
Comments:

Depth, In Feet	Boring Number 4
0-------	----------
0-16"	Mixed loamy fill soil
16-28"	Yellowish-brown loam(5/4)
18-84"	Dark y-brown medium sand(4/4), Occasional pebbles

End of boring at 7 feet.
Standing water table:
Present at feet of depth, Hours after boring
Standing water not present in hole ☒
Mottled Soil:
Observed at feet of depth
Mottled soil not present in bore hole ☒
Comments:

DISCLAIMER

Brian L. Humpal, Inc. dba. Midwest Sewer Services, 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 only 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.