Midwest Sewer Services

| P.O. Box 10853 White Bear Lake, MN 55110 651-492-7550/Brian@Midwestsoiltesting.com | | Brian Humpal MPCA Licensed Advanced Inspector | |
|---|----------------------|--|--|
| SUBSURFACE SEWAGE TR | EATMENT SYSTEM | (SSTS) COMPLIANCE REPORT | |
| Date: 8/9/2023 & 8/11/2023 | Time: 1:00 PM | Owner: Hillary Steltz | |

 Date:
 8/9/2023 & 8/11/2023
 Time:
 1:00 PM

 Inspection Address:
 19430 Orwell Ct N, Scandia, MN 55047

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2019, which were on file at Washington County. This system (installed in 2001) consists of two precast septic tanks, a pre-cast lift tank, and a mound. Pinky's Sewer Service pumped the tanks on August 11, 2023.

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.

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

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.

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Christopher Uebe

Brian Humpal

Brian Humpal

<u>Midwest Sewer Testing</u> Subsurface Sewage Treatment System Owner/Property Information

| This information will be used for the purpose of conducting an MPCA Compliance Inspection. | | |
|--|---|--|
| Date of Inspection: 8/9/2023 & 8/11/2023 | Time: 1:00 PM | |
| | | |
| Property Address: 19430 Orwell Ct N, Scandia, N | 1 | |
| Property Owner: Hillary Steltz | Phone: | |
| ⊠Septic 2 □Fiberglass □Roc □Aerobic □Plastic □Grav ☑Lift □Metal □Cha | eatment System Other k trench Alternative system velless trench Experimental system mber trench Cesspool system page bed Other system | |
| Other At- | | |
| Are the tank maintenance covers accessible? performed through the maintenance holes. Maintenance holes maintenance holes maintenance holes. | es \boxtimes No *If no, proper maintenance must be nance hole covers should be made accessible to | |
| Year house built: 1974 Year septic installed | 1: 1974/2001 Tank size (gals.): 2-1000 | |
| How long has seller owned the property? | Number of residents in home? | |
| Number of bedrooms? 3 Are all floo | rs drained by gravity? | |
| | Whirlpool bath? | |
| More than one system (laundry, etc.)? | A | |
| Does this property have any footing drain tiles con | nected 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? Unknown | | |
| Location of septic system on lot? Northeast Side | | |
| Location of water well on lot? Northwest 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? 8/11/2023 | Name of pumper: Pinky's 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? Y | | |
| 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:



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: 19430 Orwell Ct N, Scandia, MN 55047 | | |
| Owner/representative: Hillary Steltz/Grant & Caileigh Peters (Bu | /ers) | _ Owner's phone: <u>651-210-2873</u> |
| Brief system description: Two pre-cast septic tanks, a pre-cast lift | tank, and a mound. | |

System status

System status on date (mm/dd/yyyy): 8/11/2023

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

Brian Humpal Hour

Certification number: 5342/9852

Inspector signature:

License number: L2896

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: 19430 Orwell Ct N, Scandia, MN 55047

Business Name: Midwest Sewer Services

Date: 8/11/2023

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

| Compliance criteria: | | Attached supporting documentation: |
|---|-------------|------------------------------------|
| System discharges sewage to the ground surface | 🗌 Yes* 🛛 No | ☐ Other: ☐ Not applicable |
| 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 imminent threat to public health an | | - |

Describe verification methods and results:

None of the above found.

2. Tank integrity – Compliance component #2 of 5

| Compliance criteria: | | Attached supporting d | ocumentation: | |
|--|-------------|---|--------------------|--------------------------|
| System consists of a seepage pit, | 🗌 Yes* 🛛 No | Empty tank(s) viewed by inspector Pinky's Sewe Name of maintenance business: <u>Service</u> | | |
| cesspool, drywell, leaching pit, or other pit? | | | | Pinky's Sewer Service |
| Sewage tank(s) leak below their | 🗌 Yes* 🛛 No | License number of mair | itenance busines | s: <u>L1673</u> |
| designed operating depth? | | Date of maintenance: | | 8/11/2023 |
| | | Existing tank integrity as | ssessment (Attac | h) |
| | | Date of maintenance | | |
| If yes, which sewage tank(s) leaks: | | (mm/dd/yyyy): | (must be within | three years) |
| Any "yes" answer above indicates the system is failing to protect groundwater. | | (See form instructions to Minn. R. 7082.0700 sub | | nent complies with |
| | | 🗌 Tank is Noncompliant (p | oumping not necess | sary – explain below) |
| | | Other: | | |

Describe verification methods and results:

Property Address: <u>19430 Orwell Ct N, Scandia, MN 55047</u> Business Name: Midwest Sewer Services

Date: 8/11/2023

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

| | 3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or uns □ Yes* | secured? |
|----|---|-------------------------------|
| | 3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe | atv? 🗆 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? | \Box Yes* \boxtimes No |
| | *Yes to 3c or 3d - System is failing to protect groundwater. | |
| | Describe verification methods and results: | |
| | | |
| | | |
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| | | |
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| | | |
| | | |
| | | |
| | | |
| | 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? | 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 complete | ed. |
| | Compliance criteria: | |
| | a. Have the operating permit requirements been met? | |
| | b. Is the required nitrogen BMP in place and properly functioning? | |
| | | |

Any "no" answer indicates noncompliance.

Describe verification methods and results:

Business Name: Midwest Sewer Services

Date: 8/11/2023

5. Soil separation – Compliance component #5 of 5

| Date of installation 2001 (mm/dd/yyyy) | _ 🗌 Unkno | own | | |
|--|-----------|-------|--|---|
| Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria (select one): | ⊠ Yes | 🗌 No | Attached supporting documentation: □ Soil observation logs completed for the ⊠ Two previous verifications of required | • |
| 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* | Not applicable (No soil treatment area Reviewed previous compliance inspective Reviewed design and permit records. | |
| 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* | Indicate depths or elevations A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation D. Required compliance separation* *May be reduced up to 15 percent if allo Ordinance. | See Attached Boring Log(s) wed by Local |
| 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:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.



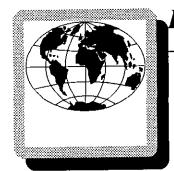
Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 19430 Orwell Court

| Boring | #1 Elevation:100'6" | Boring #2 Elevation: | Boring #3 Elevation: |
|-------------|---|----------------------|----------------------|
| 0-12 -46 | 10YR 3/3 topsoil 1010YR 5/4 medium washed sand, mound sand. | | |
| -56 | 10YR 3/3 loam topsoil. No redoximorphic mottling observed. Soil dry. | | |

Sketch:

Comments: Benchmark = Top of rockbed in mound. Assumed elevation = 100'0". The bottom of the mound rockbed elevation is 98'11". Soil boring #1, taken directly alongside the mound indicated no redoximorphic mottling at a depth of 56" with wet conditions observed at the interface of the mound and original soils. This system does meet the required 36" (31" w/allowable 15% reduction) vertical separation from seasonally saturated soils. The system consists of a two 1000-gallon septic tanks, a 1000-gallon lift tank and a 600 sq. ft. pressurized mound system. The tanks were pumped at the time of inspection and found to be in good condition. Probe samples taken in the mound indicated no signs of excess ponding in the rockbed or sand layers of the mound. The lift pump was manually tested and operable. This inspection is not a warranty or guarantee, either written or implied, of future or long-term hydraulic functionality/performance, but rather a determination if the systems use is/may cause pollution and/or adverse harm to the environment, groundwater or public health and safety at the time of this inspection. No guarantee can be made on future hydraulic performance, or the performance of system components (pumps, controls, etc.). Changes in use can cause any system, failing or compliant, to become hydraulically overloaded and ultimately fail. Owner/buyer assumes full responsibility for the long-term performance of this system as well as any future upgrade, repairs or replacement costs. Liability is limited to the cost of this inspection.



EARTH SCIENCE TESTING

SOILS INFORMATION COMPANY

SOIL BORINGS

BORING NO 1

| 0"-2" | = DARK BROWN FINE LOAM. (10YR 4/2) |
|----------|---|
| 2"-12" | = LIGHT REDDISH TAN FINE LOAMY SAND. (10R 5/4) |
| 12"- 18" | = DARK BROWN FINE SANDY LOAM. (10YR 4/2) |
| 18"- 32" | = LIGHT BROWN FINE SILTY SAND. (10YR 5/4) |
| 32"- 37" | = REDDISH BROWN FINE SANDY LOAM, IRONSTAINS & |
| 02 0 | <u>MOTTLED.</u> (10R 4/4) |
| 37"- 44" | = RED BROWN FINE SANDY CLAY LOAM & ROCKS. (10R 4/3) |
| END BORE | |

| <u>BORING N</u> | |
|-----------------|---|
| 0"- 6" | = DARK BROWN FINE SANDY LOAM. (10YR 4/2) |
| 6"- 26" | = LIGHT BROWN FINE LOAMY SAND. (10YR 5/4) |
| 26"- 34" | = REDDISH BROWN FINE SANDY CLAY LOAM, |
| | <u>IRONSTAINS & MOTTLED</u> . (10R 4/4) |

END BORE

BORING NO 3

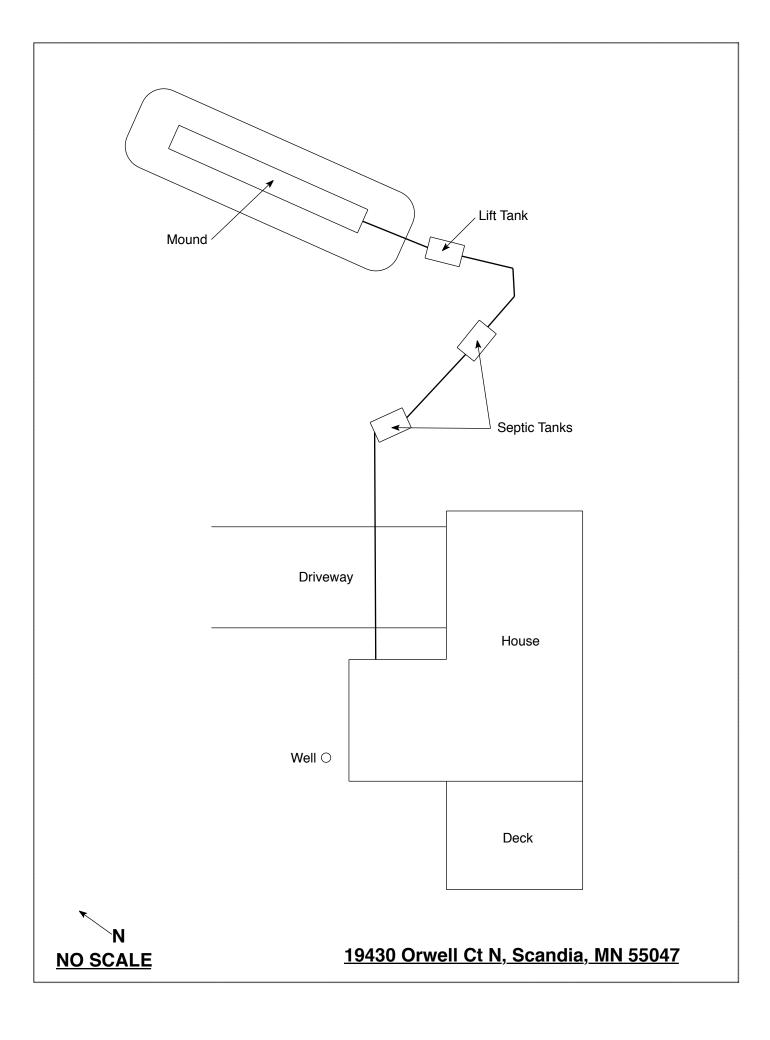
| 0"- 7" | = DARK BROWN FINE SANDY LOAM. (10YR 4/2) |
|----------|---|
| 7"- 28" | = LIGHT BROWN VERY FINE LOAMY SAND. (10YR 5/4) |
| 28"- 33" | = REDDISH BROWN FINE SANDY CLAY LOAM, <u>LIGHT IRONSTAINS &</u> |
| | <u>MOTTLED.</u> (10R 4/4) |
| 28"- 33" | = REDDISH BROWN FINE SANDY CLAY LOAM, HEAVY IRONSTAINS & |
| | MOTTLED. (10R 4/4) |

END BORE

BORING NO 4

| <u>JOINI OITO I</u> | |
|---------------------|---|
| 0"- 7" | = DARK BROWN FINE SANDY LOAM. (10YR 4/2) |
| 7"- 22" | = LIGHT BROWN FINE SANDY LOAM. (10YR 5/4) |
| 22"- 28" | = REDDISH BROWN FINE SANDY LOAM, CLAY FILM. (10R 4/4) |
| 28"- 36" | = REDDISH BROWN FINE SANDY CLAY LOAM, <u>IRONSTAINS &</u> |
| | <u>MOTTLED.</u> (10R 4/4) |
| 36"- 46" | = REDDISH BROWN FINE LOAMY SAND, WET, IRONSTAINS & |
| | <u>MOTTLED.</u> (10R 4/4) |
| | |

END BORE



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 <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.