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: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached supporting documentation – additional local requirements may also apply. Further information can be found here: https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance.

Property information

Local tracking number:

Parcel ID# or Sec/Twp/Range: 3503221420002 Local regulatory authority: WASHINGTON COUNTY

Property address: 18330 IVYWOOD AVENUE N FOREST LAKE

Owner/representative: KELLER CARL Owner's phone:

Brief system description: 1200 AND 1000 SEPTIC TANKS, 1000 LIFT TANK AND PRESSURIZED MOUND

System status

System status on date (mm/dd/yyyy): 3/26/2021

☐ **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**

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.

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

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

LIFT TANK AND MOUND INSTALLED IN 2003. FIRST TWO TANKS ARE ORIGINAL FROM 1975. ROOTS OBSERVED IN SECOND TANK, MANHOLE COVER ON FIRST TANK BURIED BELOW GRADE WITH NO HANDLES. FIRST TWO TANKS MUST BE REPLACED/REPAIRED FOR COMPLIANCE. TANKS MAY BE ABLE TO BE REPAIRED/SEALED BY LICENSED CONTRACTOR HOWEVER CONTRACTOR WILL NEED TO SIGN OFF ON TANK INTEGRITY UPON COMPLETION.

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: LASHINSKI SERVICES, INC. Certification number: 3053

Inspector signature: [signature] License number: L65

(This document has been electronically signed)

Phone: 612-919-3704

Necessary or locally required supporting documentation (must be attached)

☒ Soil observation logs ☒ Locally required forms ☒ Tank Integrity Assessment ☐ Operating Permit

☐ Other information (list):

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:

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:

ROOTS OBSERVED IN THE SECOND TANK

Attached supporting documentation:

☒ Pumped at time of inspection

Name of maintenance business: LASHINSKI

License number of maintenance business: L65

Date of maintenance: 3/26/2021

☐ 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:

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) ☐ _____

5. **Soil separation** – Compliance component #5 of 5

Date of installation **8/14/2003** ☐ Unknown
(mm/dd/yyyy)

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

Attached supporting documentation:

☒ Soil observation logs completed for the report (Attach)

☒ Two previous verifications of required vertical separation *(Attach)*

☐ Not applicable (No soil treatment area)

☐ _____

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 (Advanced Inspector License required)* Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No*

Indicate depths or elevations

A. Bottom of distribution media	98'11"
B. Periodically saturated soil/bedrock	95'10"
C. System separation	37"
D. Required compliance separation*	36"

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

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, 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.*

Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 18330 Ivywood Ave Forest Lake

Boring #1 Elevation: 100'10"		Boring #2 Elevation: 97'1"		Boring #3 Elevation:
0-12 -47 -60	10YR 3/3 topsoil/ fill soil 1010YR 5/4 medium washed sand, mound sand no excessively wet conditions and/or ponding present. 10YR 3/4, 4/4 fine sandy loam. No redoximorphic mottling observed after, soil dry.	0-10 -24	10YR 3/3 topsoil/ fill soil 10YR 3/4, 4/4 fine sandy loam. Redoximorphic mottling observed after 16", soil dry.	.

Sketch:

Comments: Benchmark = Top of rockbed in mound. Assumed elevation = 100'0". Soil boring #1 taken directly through the sand layer of the mound and along the upslope of the mound, indicate that the system does meet the required 36" vertical separation from seasonally saturated soils. The system consists of a 1250 and 1000--gallon septic tank, a 1000-gallon lift tank with a 450 sq, ft, pressurized mound system with 24" sand lift. The tanks were pumped and inspected. Roots were observed in the second tank and is not watertight. This tank must be replaced/repaired. The manhole cover on the first tank needs to be risered to grade for access. Probe samples taken in the mound indicated no signs of excess ponding in the rockbed or sand layers of the mound. The pump and floats were manually run and operable at time of inspection. This system is classified as noncompliant. 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.

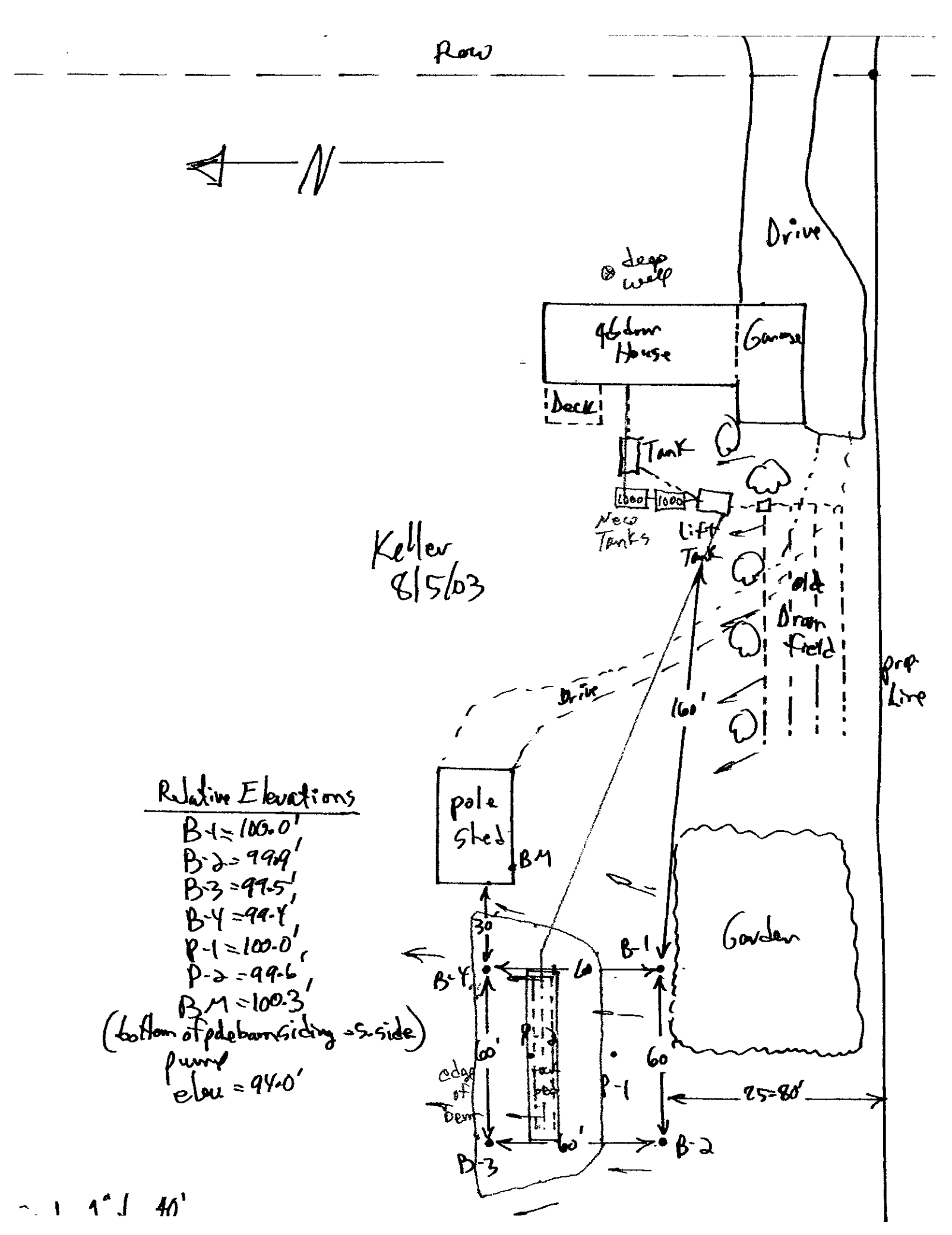
Washington County, MN

April 1, 2021

1:500

0 20 40 80 ft

0 5 10 20 m



Relative Elevations

B-1 = 100.0'
B-2 = 99.9'
B-3 = 99.5'
B-4 = 99.4'
P-1 = 100.0'
P-2 = 99.6'
BM = 100.3'
(bottom of pole barn siding - S. side)
pump elev = 94.0'

1" = 40'

LOGS OF SOIL BORINGS

Location of Project Carl Keller, 6.5 acres, Sec. 35, City of Forest Lake, Washington Co.;
Borings Made by Chris Zierke Date: 8/4/03
Hand bucket auger used for borings; USDA – SCS Soil Classification used.

Depth, In Feet	Boring Number 1
0	
0-12"	Dark-brown sandy loam(10YR-3/3)
12-24"	Dark yellowish-brown gravelly loam(10 YR-4/4), iron-stains, light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole ☒.
Mottled Soil:
Observed at 1 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)
10-20"	Dark yellowish-brown sandy loam(10Y R-4/4), iron-st. & light-gray mottles below 14"
20-24"	Yellowish-brown clay loam(10YR-5/4), iron-st., light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole ☒.
Mottled Soil:
Observed at 14" feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Depth, In Feet	Boring Number 3
0	
0-10"	Dark-brown sandy loam(3/3)
10-24"	Dark y-brown sandy loam(4/4), iron-st. & light-gray mottles below 12"

End of boring at 2 feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole ☒.
Mottled Soil:
Observed at 1 feet of depth.
Mottled soil not present in bore hole ☐.
Comments:

Depth, In Feet	Boring Number 4
0	
0-12"	Dark-brown sandy loam(3/3)
12-24"	Dark y-brown sandy loam(4/4), iron-st., light-gray mottles

End of boring at 2 feet.
Standing water table:
Present at feet of depth, hours after boring.
Standing water not present in hole ☒.
Mottled Soil:
Observed at 1 feet of depth.
Mottled soil not present in bore hole ☐.
Comments: