



Minnesota Pollution Control Agency

520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form
Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

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): 4/27/2020

[X] Compliant – Certificate of Compliance
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

[] Noncompliant – Notice of Noncompliance
(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

- [] Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
[] Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
[] Tank Integrity (Compliance Component #2) – Failing to protect groundwater
[] Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
[] Soil Separation (Compliance Component #4) – Failing to protect groundwater
[] Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range:

Property address: 20780 Keewahtin Ave N Forest Lake MN Reason for inspection: Owner Request

Property owner: Cassandra Washington Owner's phone: 952-686-1014

or
Owner's representative: Representative phone:

Local regulatory authority: Washington County Regulatory authority phone:

Brief system description: 1250 septic, 1000gal lift with 3-40' trenches

Comments or recommendations:

House was vacant at time, all inspections pipes on drainfield were dry, but being vaccant and age, no garentee of longevity.

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.

Inspector name: Ashley Krause Certification number: 9575

Business name: ARK Septic LLC License number: 3974

Inspector signature: [Signature] Phone number: 763-760-4172

Necessary or Locally Required Attachments

- [X] Soil boring logs [X] System/As-built drawing [] Forms per local ordinance
[] Other information (list):

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:

System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Comments/Explanation:

This system is 29 years old and longevity is not guaranteed.

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. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Comments/Explanation:

Pumped by Olsons, Pump is not on block. New alarm installed.

Verification method(s):

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for “black soil”
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

3. Other Compliance Conditions – Compliance component #3 of 5

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound. Yes* No Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. Yes* No Unknown
***System is an imminent threat to public health and safety.**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector. Yes* No
***System is failing to protect groundwater.**

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 6/28/1991 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

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

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

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: Yes No

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

"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) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation:

Indicate depths or elevations

A. Bottom of distribution media	94.5
B. Periodically saturated soil/bedrock	91.1
C. System separation	3.4'
D. Required compliance separation*	3'

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

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

5. Operating Permit and Nitrogen BMP* – Compliance component #5 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? 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: _____ Have the Operating Permit requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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.



Olson Sewer Service

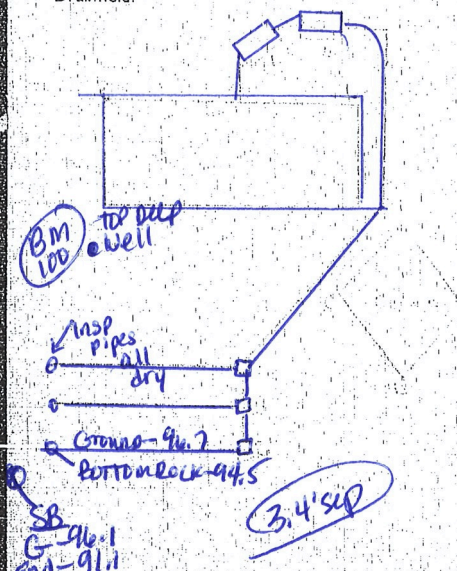
17638 Lyons Street, Forest Lake, Minnesota 55025 Telephone: (612) 464-2082

84-91046

CUSTOMER _____ PHONE _____
ADDRESS _____ 84-91046

YOUR SYSTEM CONSISTS OF:

- Tank:
- Lift Station:
- Pump:
- Switch:
- Alarm:
- Drainfield:



Maintenance Record

Date	Work Done
9/24	insp. pipes

Keep your sewer in the Pink

To insure the life of your onsite system, we recommend that your septic tank be dug open and pumped every two to three years.

U of MN Onsite Sewage Treatment Program Soil Boring Log

Client/ Address: 20780 Keewahkin Ave N Forest LK	Legal Description/GPS: Forest LK	Date: 4/27/20
Soil Parent Material(s): Till <u>Outwash</u> Lacustrine Alluvium Loess Organic Matter Bedrock (circle all that apply)		
Landscape Position: Summit <u>Shoulder</u> Back/Side Slope Foot Slope Toe Slope (circle one)		
Vegetation: grass	Soil Survey Map Unit(s):	Slope (%): 3
Weather conditions/Time of Day: afternoon/sunny		Slope Shape: 11

Depth (in)	Texture	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil Indicator(s) (see back)	I-----Structure-----I		
						Shape	Grade	Consistence
0-4"	LFS	10YR3/2		Concentrations Depletions Gleyed		Granular Platy <u>Blocky</u> Prismatic Single Grain Massive	Weak <u>Moderate</u> Strong Loose	Loose <u>Friable</u> Firm Extremely Firm Rigid
4-24"	LS	10YR4/4		Concentrations Depletions Gleyed		Granular Platy <u>Blocky</u> Prismatic Single Grain Massive	Weak <u>Moderate</u> Strong Loose	Loose <u>Friable</u> Firm Extremely Firm Rigid
24-60"	med sand/ gravelly	10YR5/4		Concentrations Depletions Gleyed		<u>Granular</u> Platy Blocky Prismatic Single Grain Massive	Weak <u>Moderate</u> Strong Loose	Loose <u>Friable</u> Firm Extremely Firm Rigid
60+ Hit Rock				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid

Comments: **None**

Depth (in)	Texture	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil Indicator(s) (see back)	I-----Structure-----I		
						Shape	Grade	Consistence
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
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Comments:



Washington County, Minnesota (MN163)			
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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
454B	Mahtomedi loamy sand, 0 to 6 percent slopes	1.6	5.7%
454C	Mahtomedi loamy sand, 6 to 12 percent slopes	0.1	0.5%
896C	Mahtomedi-Kingsley complex, 3 to 12 percent slopes	8.2	30.1%
896D	Mahtomedi-Kingsley complex, 12 to 25 percent slopes	9.4	34.5%
1055	Aquolls and Histosols, ponded	3.3	11.9%
W	Water	4.7	17.2%
Totals for Area of Interest		27.3	100.0%

Soil Map

Warning: Soil Map may r
 You have zoomed in beyond t
 1:15,800. The design of map
 Enlargement of maps beyond
 could have been shown at a n

Map Unit Description

Printable

Report — Map Unit Description

Washington County, Minnesota

896C—Mahtomedi-Kingsley complex, 3 to 12 percent slopes

Map Unit Setting

National map unit symbol: 1t96q
 Elevation: 670 to 1,600 feet
 Mean annual precipitation: 27 to 33 inches
 Mean annual air temperature: 39 to 46 degrees F
 Frost-free period: 135 to 180 days
 Farmland classification: Not prime farmland

Map Unit Composition

Mahtomedi and similar soils: 60 percent
 Kingsley and similar soils: 35 percent
 Minor components: 5 percent

Estimates are based on observations, descriptions, and transects mapunit.

Description of Mahtomedi

Setting

Landform: Moraines
 Landform position (two-dimensional): Shoulder
 Down-slope shape: Convex
 Across-slope shape: Convex
 Parent material: Outwash

Typical profile

Ap - 0 to 8 inches: loamy sand
 Bw - 8 to 30 inches: gravelly coarse sand
 C - 30 to 60 inches: gravelly sand

Properties and qualities

Slope: 3 to 12 percent
 Depth to restrictive feature: More than 80 inches
 Natural drainage class: Excessively drained
 Capacity of the most limiting layer to transmit water (Ksat): Hi very high (5.95 to 19.98 in/hr)
 Depth to water table: More than 80 inches
 Frequency of flooding: None
 Frequency of ponding: None
 Calcium carbonate, maximum in profile: 15 percent
 Available water storage in profile: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
 Land capability classification (nonirrigated): 6s
 Hydrologic Soil Group: A
 Forage suitability group: Sandy (G090XN022MN)
 Hydric soil rating: No

Description of Kingsley

Setting

Landform: Moraines
 Landform position (two-dimensional): Shoulder
 Down-slope shape: Convex
 Across-slope shape: Convex
 Parent material: Till

Typical profile

Ap - 0 to 8 inches: sandy loam
 Bt - 8 to 39 inches: sandy loam
 C - 39 to 60 inches: sandy loam

Properties and qualities

Slope: 3 to 12 percent
 Depth to restrictive feature: More than 80 inches
 Natural drainage class: Well drained
 Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 0.57 in/hr)
 Depth to water table: More than 80 inches
 Frequency of flooding: None
 Frequency of ponding: None
 Available water storage in profile: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
 Land capability classification (nonirrigated): 3e
 Hydrologic Soil Group: C

Service Order

Service Order #: 95802

Olson's Sewer Service, Inc. 17638 Lyons Street N.E. Forest Lake, MN 55025 651-464-2082

Date: 4/27/2020 **Preferred Time:** **Road Restrictions (Tons)** **IMPORTANT NOTE**

Addr: 20780 Keewahtin Avenue North

COVID19 screened - no issues. House is vacant. Call Ashley Krause, the inspector at Ark Septic, at 763-2574378 and email our paperwork to arkseptic17@gmail.com. Note: the inspector doesn't need to be present when we do our pumping/maintenance work.

Name: Cassandra Washington **C1:** (612) 814-1409 Cassandra
City: Forest Lake, MN 55025
City: Washington
Twp: Forest Lake

Driving Dir							
Tank Type	Pre-cast	PreT	T1	T1C	T2	T3	LS
Treatment Type	Dropbox Distribution	Sizes:	1250				1000
Treatment Area	500Sq Ft	Depth to MH:	To 1'	C			Grade
Dist to Tank 1	50 Ft	Riser Feet:	1				2
Dist to Lift Tank		LS Outlet to Bottom:					

Water Meter		Power Disconnect at Lift		PreT	T1	T1C	T2	T3	LS
Effluent Filter		Looped		Covers Secure:	Y				Y
Two Techs		# Bedrooms		Infiltration ↑ OL:	N				N
City Sewer	N	Pump Breaker		Infiltration ↓ OL:	Y				N
Install Date	9/24/1991			Scum Depth:	18				0
Installer	Olson's			Sludge Depth:	10				8
As Built	W218			Inlet Baffle Intact:	Y				
Cleanout				Outlet Baffle Intact:	Y				
				Pump Function:					Y
				Alarm Function:					N
				Filter Alarm Function:					

Baseline Equal Dist Hgt								
1	4							
2	5							
3	6							

Lift Pump	SK-50 pump, SJ panel
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Service Type	Last Service Date	Mobilize Time	At Site Time	Complete Time	Disposal Time	Leave Disposal Time
1 Maintenance Pumping	7/23/2015	10:25 AM	11:10 AM	12:40 AM		
2 Lift Station Maintenance	7/23/2015					
3 LUG Permit	7/23/2015					

Time Dosing	Iron Filter	S&E Quality	Eq Dist Hgt					
Lint Filter	Sump Pump	PH Reading	2					
Switch Tree	Ejector Pump	Non Dom Wastes	3					
Event Counter	Mgmt Plan	TA Visual Insp	4					
Garbage Disp.	Monitoring		5					
Water Softener	Irrigation		6					

Readings	Previous	Functioning
Event/Cycle Ctr		
Elapsed Time		
Time Dosing		
Water Meter		

Dump Site	Gal Pumped	CSR MC	Garden Hose	Y	Chemicals	<input type="checkbox"/>	Reminder	4/27/2023
Metro	1400	CBYD/Date					Lift Station Last Service	7/23/2015
Total:	1400						Vehicle	96
							Service Person	JB
							Inv #	
							Follow Up	

Service Order Comments: Closing on house today - need lift station maintenance and maintenance pumping before 4:00pm today when the inspector will be out to the house.

Site Comments:

Price Quoted: Permit \$17.00, LS M/A and Pumping \$469.00 to \$539.00. We have the credit card information - please email Cassandra a receipt.

Post Comments: 14" hard grease and rag deposits; alarm, alarm pedestal does not work; light is smashed in. Alarm teather/placement is wrong. Hits top of tank. Pump is not on block; unelevated and no pump legs



25297 Llama St. N.W. Zimmerman MN 55398
763-760-4172 Cert#9575 Lic#3974
arkseptic17@gmail.com

Date: 4/27/20

Address: 20780 Keewahtin Ave N Forest Lake MN

Elevations:

Bottom trench:

Ground: 96.7

Bottom of rock:94.5

Soil Boring:

Ground: 96.1

Ended when hit rock at 91.1

3.4' seperation

1250 precast septic tank and 1000 lift was pumped out by Olsons at time of inspection. Drainfield is 3-40' trenches. Drainfield has over 3' seperation. House was vacant at time of inspection, all three drainfield inspection pipes were dry.

At the time of this inspection no sign of excess ponding or saturation was observed in the rock. This inspection is not warranty or guarantee, either written or implied, of future or long term hydraulic functionality/performance, but rather a determination if the system us is/may cause pollution and/or adverse harm to the environment, ground water or public health and safety at the time of this inspection. Buyers should be aware of the age of this system (29Years) as it is likely or near or beyond its life expected life. No guarantee can be made on future hydraulic performance, or the performance of the systems components. 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 cost of this inspection.

If you have any questions feel free to call me at 763-760-4172.



Ashley Krause/ARK SEPTIC LLC
MPCA LIC# 3974