



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.

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): 11/9/2020

[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: 2403221140011

Property address: 20639 KEEWAHTIN AVE N, FOREST LAKE Reason for inspection: PROPERTY TRANSFER

Property owner: Owner's phone:

or
Owner's representative: Representative phone:

Local regulatory authority: WASHINGTON COUNTY Regulatory authority phone:

Brief system description: 1250-GALLON SEPTIC TANK 1000-GALLON LIFT TANK AND APPROXIMATELY 375 SQ FT GRAVITY TRENCHES

Comments or recommendations:

OLD SYSTEM INSTALLED IN 1978 LIKELY APPROACHING ITS EXPECTED LIFE. TANKS AND DRAINFIELD ARE UNDERSIZED AND DRAINFIELD APPEARS TO BE LOCATED PARTIALLY OR FULLY OFF OF THE PROPERTY. EXTREMELY SMALL LOT WITH LIMITED ROOM FOR FUTURE REPLACEMENT. BUYER TOACCEPT FULL RESPONSIBILITY FOR FUTURE UPGRADE REQUIREMENTS. THE TANK WAS PUMPED AND VERIFIED BY OLSON'S SEWER

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: RYAN LASHINSKI Certification number: 3053

Business name: LASHINSKI SEPTIC SERVICE License number: L65

Inspector signature: Phone number: 763-434-3915

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:

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:

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: 8/18/1978 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	36"
B. Periodically saturated soil/bedrock	<72"
C. System separation	36"
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.

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: _____ Yes No
Have the Operating Permit requirements been met?
- b. Is the required nitrogen BMP in place and properly functioning? Yes 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.

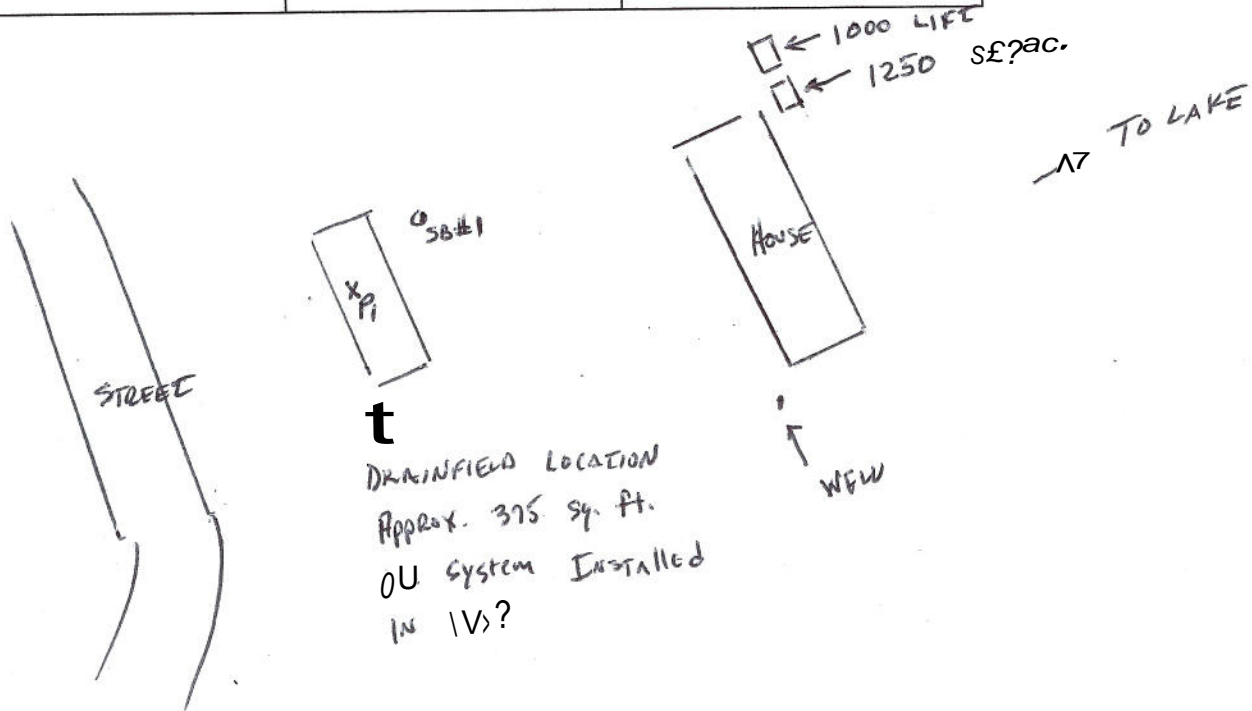


Compliance Inspection Attachment for Existing Individual Sewage Treatment Systems

Address 20639 Keewatin Avenue

Boring #1 Elevation:"		Boring #2 Elevation:"	Boring #3 Elevation: 10010"
0-6	10YR 3/2 dark brown fine sand.		
-23	10YR 4/3 brown fine sand.		
-72	10YR 4/4, 5/4 yellowish brown medium/coarse sand and gravel. No redoximorphic mottling observed, soil dry.		

Sketch:

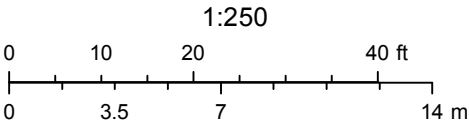


Benchmark = bottom of distribution pipe. Assumed elevation = 100'0". Soil boring #1 indicated no redoximorphic mottling at a depth of 72". The system does meet the required 36" vertical separation (31" with the allowable 15% reduction) from seasonally saturated soils. The system consists of a 1200-gallon septic tank, a 1000-gallon lift tank and approximately 375 sq. ft of gravity drainfield, both the tanks and drainfield are undersized by today's code. The tanks were recently pumped and inspected by Olson's and found to be in good condition, the baffles were checked and are o.k. Probe samples in the drainfield indicated dry conditions with no sign of excess ponding or saturation, however the house was vacant at the time of inspection with little or no water use for an extended period of time. It appears that the drainfield may be located partially or fully off of the property and in the street easement. The owner/buyer should have the property surveyed to verify whether the drainfield is fully located within the property boundaries. This lot is very small with limited room for future expansion and/or replacement of the septic system. The system was installed in 1978 and likely approaching or beyond its expected life. 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



August 21, 2019



Permit Fee \$ _____

OFFICE OF THE ZONING ADMINISTRATOR
WASHINGTON COUNTY, MINNESOTA
Tel. 439-3220

PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM

Owner EDWIN LICHIEY Permit No. 10-1
NAME

LOTS 26-27-28 SYLVAN SHORES PERMIT
ADDRESS

MINIMUM SYSTEM REQUIRED: 3 Bedrooms, Percolation Rate 5 M in/Inch

Septic Tank 1200 Gal. Liquid Capacity Lift Station _____ Gal.

Distribution Box _____ Drop Box concrete with manhole

Absorption Trench - Square Feet 375 Lineal Feet 188 Width 24"

Depth of Rock Below Tile Lines 12 inches, Above Tile 2 inches

Depth of Trench - Minimum Cover 18 inches, Maximum Cover 36 inches

Minimum Number of Lines 2 Maximum Length of Individual Line 100 Ft.

Recommended Number of Lines 3 at 64'

Minimum Spacing of Lines 6 1/2 Ft. Center to Center.

Inspection of Installation Must Be Accomplished By This Office Before Any Portion of System Is Covered.

Special Conditions Permit is contingent on installation of a septic system in septic area. System must be as shown indicated on attached site plan. Line from house to tank must be at least 100'. House setback should be at 30' from road at all points.

System Inspected 8-18-78
DATE

Installation Approved [Signature]
INSPECTOR

Comments _____

PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application, to the specifications shown under minimum system required. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within (6) months. Installer must hold current Septic Installer License with Washington County.

Approved: [Signature] 2-8-78
(ZONING ADMINISTRATOR) (DATE)

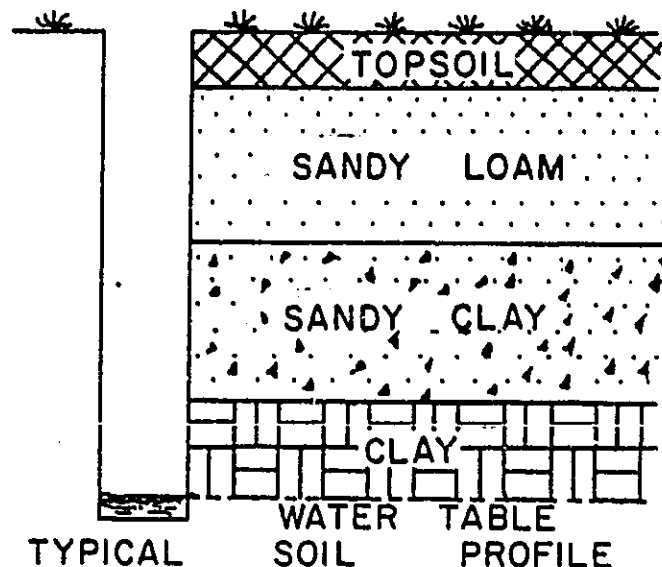
-SOIL BORINGS-

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

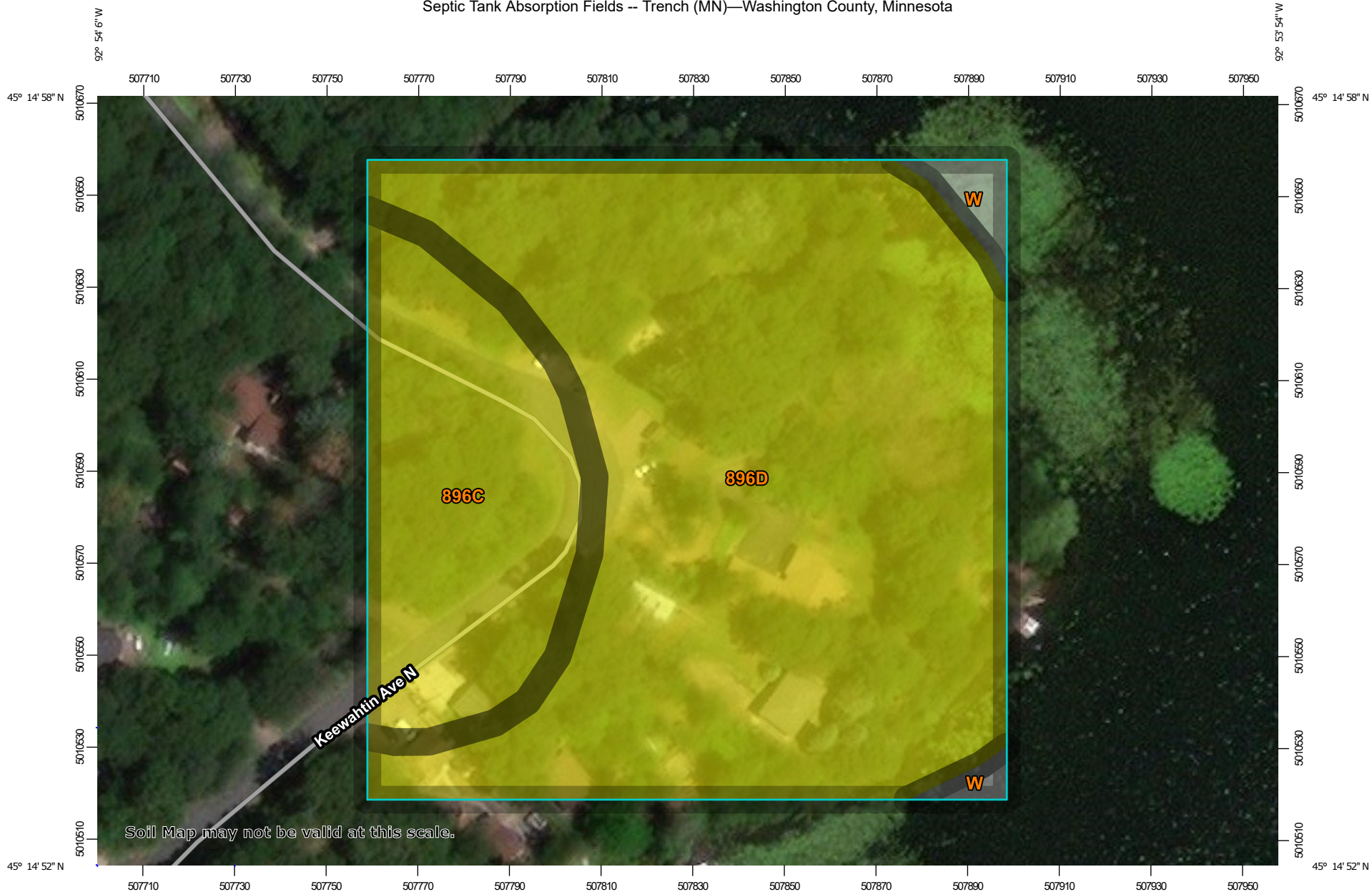
Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



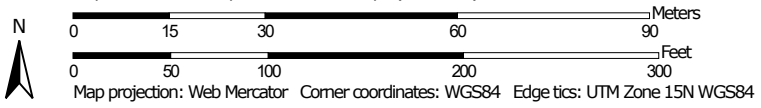
LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	BROWN	0	BROWN	0	BROWN	0	AREA - CONTINUOUS
1/2	Med. SAND	1/2	Med. SAND	1/2	Med. SAND	1/2	
1	↓ ROCKS	1	↓ ROCKS	1	↓ ROCKS	1	
1 1/2	↓	1 1/2	↓	1 1/2	↓	1 1/2	
2		2		2		2	
2 1/2		2 1/2		2 1/2		2 1/2	
3		3		3		3	
3 1/2		3 1/2		3 1/2		3 1/2	
4	↓	4	↓	4	↓	4	
4 1/2		4 1/2		4 1/2		4 1/2	
5		5		5		5	
5 1/2	↓	5 1/2	↓	5 1/2	↓	5 1/2	
6		6		6		6	
6 1/2	BROWN COARSE SAND	6 1/2	↓	6 1/2	↓	6 1/2	
7	↓ ROCKS	7		LT. BROWN COARSE SAND		7	
7 1/2	OBSTRUCTION AT 7'	7 1/2	↓ ROCKS	7 1/2	COARSE SAND	7 1/2	
8	↓	8	↓	8	↓	8	
8 1/2		8 1/2		8 1/2		8 1/2	
9		9	LT. BROWN MED SAND	9	END BORE 8'-6"	9	

Septic Tank Absorption Fields -- Trench (MN)—Washington County, Minnesota



Map Scale: 1:1,180 if printed on A landscape (11" x 8.5") sheet.



Septic Tank Absorption Fields — Trench (MN)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
896C	Mahtomedi-Kingsley complex, 3 to 12 percent slopes	Moderately limited	Mahtomedi (60%)	Excessive percolation (0.21)	1.1	22.7%
			Kingsley (35%)	Restricted percolation (0.30)		
896D	Mahtomedi-Kingsley complex, 12 to 25 percent slopes	Moderately limited	Mahtomedi (60%)	Slope (0.73)	3.6	75.3%
				Excessive percolation (0.21)		
			Kingsley (35%)	Slope (0.73)		
				Restricted percolation (0.30)		
W	Water	Not rated	Water (100%)		0.1	2.0%
Totals for Area of Interest					4.8	100.0%

Rating	Acres in AOI	Percent of AOI
Moderately limited	4.7	98.0%
Null or Not Rated	0.1	2.0%
Totals for Area of Interest	4.8	100.0%

Description

Trench septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through perforated pipe. In this system the drain field is placed in a trench and covered with soil material. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat) is evaluated from a depth of 30 to 107 centimeters. Depth to saturation and depth to bedrock are evaluated from the surface to a depth of 203 centimeters. The frequency of ponding and flooding also is evaluated. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect this use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Slightly limited" indicates that the soil has features that are favorable for the specified use. "Moderately limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Good performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without special design or expensive installation procedures. "Extremely limited" indicates that the soil has one or more features that are very unfavorable for the specified use. The limitations generally cannot be overcome.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as the one shown for the map unit. The percent composition of each component in a particular map unit is given to help the user better understand the extent to which the rating applies to the map unit.

Other components with different ratings may occur in each map unit. The ratings for all components, regardless the aggregated rating of the map unit, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition