Steinbrecher Companies, Inc.
13792 247th Avenue – Zimmerman, MN 55398
Phone (763) 274-0925 Fax (763) 274-0928

# Septic Compliance

Date 12/5/2018

Ann McCabe
3350 Hardscrabble Rd N
Mound, MN 55364

**Project:** 1296 Indian Trail S, Afton

Notes: The soils were solidly frozen, probing was ineffective. 2-3" snow cover.
Soils were USDA classifications- Antigo silt loam, Chetek sandy loam.

A septic compliance was completed at the above address and the system is Compliant
according to the M.P.C.A codes for chapter 7080, and local codes for Washington county
The system has the following attributes:

| | |
|---|---|
| Date Built: | 1,997 |
| Bedrooms: | 4 |
| Septic Tank: | 1250g (est) |
| Pump Tank: | gravity |
| Soil Treatment: | Trenches, configuration unknown, 3 inspection tubes in place and opened. The tanks is holding proper effluent levels, the baffles were intact. |

Steinbrecher Companies, Inc. has been hired to perform a compliance inspection of your ISTS for compliance with local ordinances pursuant to Minn. Stat. § 155.55 (2010). The compliance criteria required by Minn. Stat. § 155.55 Subd. 5a (2010) and Minn R 7080.1500 (2011). A compliance inspection is a snapshot in time of your septic system and does not warrant the condition or longevity of your septic system. Steinbrecher Companies, Inc. disclaims any use of the compliance inspection beyond determining ISTS compliance pursuant to Minn. Stat. § 155.55 (2010).

Sincerely,

Robert Polgreen
Steinbrecher Companies, Inc.

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*

**Instructions:** 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): 12/5/2018

☑ **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 Compenant #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 Compenent #5) - Noncompliant

## Property Information

Parcel ID# or Sec/Twp/Range: 09.028.20.14.0005

Property Address: 1296 Indian Trail S, Afton
Reason for inspection: Owner's Request
Property Owner: Ann McCabe
Owner's Phone: 952.221.1069
**or**
Owner's Representative: Charlie Aul
Representative Phone: 612.787.7477
Local regulatory authority: Washington county
Regulatory authority phone: 651.430.6696
Brief system description: 1250g septic tank, trenches of unknown location or depth.
Comments or recommendations:
Due to frozen conditions, and the lack of construction records, we cannot verify the configuration of the drain field.
The trench area is overgrown with brush, but there are no visible signs of failure.
The house has had light use.

## Certification

I hereby certify that all 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: Robert Polgreen
Certification number: 9037
Business Name: Steinbrecher Companies, Inc.
License number: L2851
Inspector Signature:
Phone number: (763) 274-0925

## Necessary or Locally Required Attachments

- ☑ Soil boring logs
- ☑ System / As-built drawing
- ☐ Forms per local ordinance
- ☑ Other information (list): Aerial photo, USDA soil descriptors

Property Address: 1296 Indian Trail S, Afton  Inspector Initials / Date: RGP 12/5/18

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

**Compliance criteria:**

| | |
|---|---|
| System discharge sewage to the ground surface. | ☐Yes ☑No |
| System discharge sewage to drain tile or surface waters. | ☐Yes ☑No |
| System cause sewage backup into dwelling or establishment. | ☐Yes ☑No |

**Any "yes" answer above indicates the system is an imminent Threat to Public Health and Safety.**

**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)

Comments / Explanation:
frozen ground.
Inspection tubes were dry.

## 2. Tank Integrity - Compliance component #2 of 5

**Compliance criteria:**

| | |
|---|---|
| System consists of a seepage pit, cesspool, drywell, or leaching pit.<br><br>See page pits meeting 7080.2550 may be compliant if allowed in local ordinance. | ☐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.**

**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)

Comments/Explanation:
The baffles were intact, effluent levels were correct. The effluent was clear.

## 3. Other Compliance Conditions - Compliance components #3 of 5

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.
☐Yes* ☑No ☐Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversly 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 conditions as determined by inspector. ☐Yes* ☑No
***System is failing to protect groundwater**

Explain:

Property Address: 1296 Indian Trail S, Afton  Inspector Initials / Date: RGP 12/5/18

## 4. Soil Separation - Compliance component #4 of 5

**Date of Installation:** 1997 ☐Unknown
**Shoreland/Wellhead protection/Food Beverage Lodging?** ☑Yes ☐No

**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.

**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:<br><br>Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock. | ☐Yes ☐No | ☐ Conduct soil observation(s) (Attach boring logs)<br>☐ Two previous verifications (Attach boring logs)<br>☐ Not applicable (Holding tank(s), no drainfield)<br>☐ Unable to verify (See Comments/Explanation)<br>☐ Other (See Comments/Explanation) |
| 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:<br><br>Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.* | ☑Yes ☐No | Comments / Explanation:<br><br>Creek opproximately 175' away, 50' downslope. |
| "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)<br><br>Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock. | ☐Yes ☐No | **Indicate depths of elevations**<br>A. Bottom of distribution media: 32"<br>B. Periodically saturated soil/bedrock: 72"<br>C. System separation: 40"<br>D. Required compliance separation*: 36"<br>*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: _____<br>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.**

**Upgrade Requirements** *(Minn. Stat. § 115.55)An imminent threat to public health and safety (ITPHS) must beupgraded, replaced, or its use discontinued within 10 months of receipt of this notice or within a shorter perior 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.*

**Soil Boring Data** 1296 Indian Trail S, Afton

**B-1** Elevation: Location:

| Soil Horizons Depth (inches) | Texture | Color | Structure |
|---|---|---|---|
| 0 -12" | silt loam forest litter, top soil | 10yr4/4 | friable, loose blocky |
| 12-28" | silt loam | 10yr4/4 | loose blocky |
| 28 - 56" | sandy loam | 10yr 5/4 | loose blocky |
| 56 - 72" | gravelly sand layered, gravel | 10yr5/4, 4/4 | sg |
| no redox or water foumd | | | |

**B-2** Elevation: Location:

| Soil Horizons Depth (inches) | Texture | Color | Structure |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

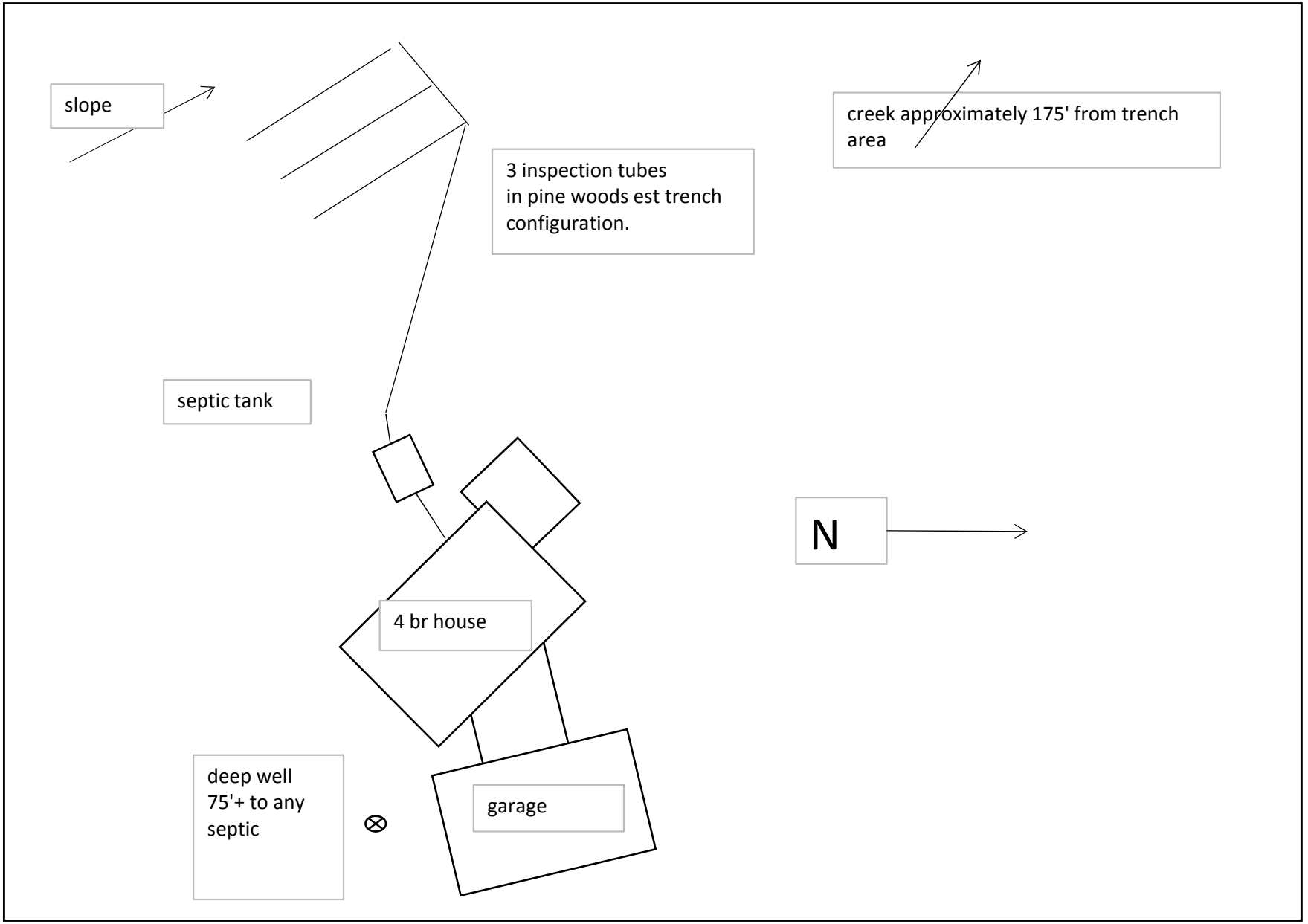
**Boring 3** Elevation: Location:

| Soil Horizons Depth (inches) | Texture | Color | Structure |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Boring 4** Elevation: Location:

| Soil Horizons Depth (inches) | Texture | Color | Structure |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1296 Indian Trail S, Afton




Map Scale: 1:3,270 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 45 90 180 270

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Washington County, Minnesota
Survey Area Data: Version 14, Oct 9, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2010—Jun 6, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 12D | Emmert gravelly loamy coarse sand, 15 to 25 percent slopes | 10.0 | 25.1% |
| 49B | Antigo silt loam, 2 to 6 percent slopes | 2.0 | 5.0% |
| 49C | Antigo silt loam, 6 to 15 percent slopes | 5.3 | 13.3% |
| 155C | Chetek sandy loam, 6 to 12 percent slopes | 16.7 | 41.9% |
| 155D | Chetek sandy loam, 12 to 25 percent slopes | 0.1 | 0.4% |
| 301B | Lindstrom silt loam, 2 to 4 percent slopes | 2.0 | 5.0% |
| 454C | Mahtomedi loamy sand, 6 to 12 percent slopes | 0.5 | 1.3% |
| 543 | Markey muck | 0.7 | 1.9% |
| 1821 | Algansee loamy sand | 2.1 | 5.3% |
| W | Water | 0.4 | 1.1% |
| **Totals for Area of Interest** | | **39.8** | **100.0%** |

# Washington County, Minnesota

## 49B—Antigo silt loam, 2 to 6 percent slopes

### Map Unit Setting

*National map unit symbol:* 2tnz8
*Elevation:* 740 to 1,900 feet
*Mean annual precipitation:* 27 to 36 inches
*Mean annual air temperature:* 37 to 46 degrees F
*Frost-free period:* 80 to 150 days
*Farmland classification:* All areas are prime farmland

### Map Unit Composition

*Antigo and similar soils:* 80 percent
*Minor components:* 20 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Antigo

#### Setting

*Landform:* Terraces, flats, hillslopes
*Landform position (two-dimensional):* Summit, shoulder, backslope
*Landform position (three-dimensional):* Interfluve, side slope, riser, rise
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Parent material:* Loess and/or silty glaciofluvial deposits over loamy glaciofluvial deposits over stratified sandy and gravelly outwash

#### Typical profile

*Ap - 0 to 9 inches:* silt loam
*E - 9 to 12 inches:* silt loam
*B/E - 12 to 19 inches:* silt loam
*Bt1 - 19 to 28 inches:* silt loam
*2Bt2 - 28 to 31 inches:* loam
*2Bt3 - 31 to 33 inches:* very gravelly sandy loam
*3C - 33 to 79 inches:* stratified sand to very gravelly coarse sand

#### Properties and qualities

*Slope:* 2 to 6 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 high to high (0.60 to 2.00 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Available water storage in profile:* Moderate (about 7.8 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 2e
*Hydrologic Soil Group:* B
*Forage suitability group:* Mod AWC, adequately drained (G090BY005WI)
*Other vegetative classification:* Acer saccharum/Hydrophyllum (AH), Acer saccharum/Viola-Osmorhiza (AViO)
*Hydric soil rating:* No

## Minor Components

**Billyboy**

*Percent of map unit:* 5 percent
*Landform:* Hillslopes, terraces, flats
*Landform position (two-dimensional):* Footslope
*Landform position (three-dimensional):* Base slope, tread, rise
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Other vegetative classification:* Acer saccharum/Caulophyllum-Circaea (ACaCi), Acer saccharum/Hydrophyllum (AH), Acer saccharum-Tsuga/Maianthemum (ATM), Acer saccharum/Viola-Osmorhiza (AViO)
*Hydric soil rating:* No

**Sconsin**

*Percent of map unit:* 5 percent
*Landform:* Hillslopes, terraces, flats
*Landform position (two-dimensional):* Summit
*Landform position (three-dimensional):* Interfluve, tread, rise
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Other vegetative classification:* Acer saccharum/Caulophyllum-Circaea (ACaCi), Acer saccharum/Hydrophyllum (AH), Acer saccharum-Tsuga/Maianthemum (ATM), Acer saccharum/Viola-Osmorhiza (AViO)
*Hydric soil rating:* No

**Rosholt**

*Percent of map unit:* 5 percent
*Landform:* Hillslopes, flats, terraces
*Landform position (two-dimensional):* Summit, shoulder, backslope
*Landform position (three-dimensional):* Interfluve, side slope, riser, rise
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Other vegetative classification:* Acer saccharum/Vaccinium-Desmodium (AVDe), Acer saccharum/Athyrium (AAt), Acer saccharum/Caulophyllum-Circaea (ACaCi), Acer saccharum-Quercus/Viburnum=(Vaccinium) (AQVb-V)
*Hydric soil rating:* No

**Brill**

*Percent of map unit:* 3 percent
*Landform:* Hillslopes, terraces, flats
*Landform position (two-dimensional):* Summit
*Landform position (three-dimensional):* Interfluve, tread, rise
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Other vegetative classification:* Acer saccharum/Athyrium (AAt), Acer saccharum/Caulophyllum-Circaea (ACaCi)
*Hydric soil rating:* No

**Ossmer**

*Percent of map unit:* 2 percent
*Landform:* Hillslopes, terraces, flats
*Landform position (two-dimensional):* Footslope
*Landform position (three-dimensional):* Base slope, tread, talf
*Down-slope shape:* Concave
*Across-slope shape:* Linear
*Other vegetative classification:* Acer saccharum/Hydrophyllum (AH), Acer saccharum-Tsuga/Maianthemum (ATM), Acer saccharum/Viola-Osmorhiza (AViO), Tsuga/Maianthemum-Coptis (TMC)
*Hydric soil rating:* No

# Data Source Information

Soil Survey Area: Washington County, Minnesota
Survey Area Data: Version 14, Oct 9, 2018

# Washington County, Minnesota

## 155C—Chetek sandy loam, 6 to 12 percent slopes

### Map Unit Setting

*National map unit symbol:* 1t93x
*Elevation:* 800 to 1,950 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

*Chetek and similar soils:* 90 percent
*Minor components:* 10 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Chetek

#### Setting

*Landform:* Pitted outwash plains
*Landform position (two-dimensional):* Shoulder
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Parent material:* Outwash

#### Typical profile

*Ap - 0 to 8 inches:* sandy loam
*E - 8 to 14 inches:* loam
*Bt - 14 to 19 inches:* gravelly sandy loam
*2BC,2C - 19 to 60 inches:* gravelly coarse sand

#### Properties and qualities

*Slope:* 6 to 12 percent
*Depth to restrictive feature:* More than 80 inches
*Natural drainage class:* Somewhat excessively drained
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 5.95 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Available water storage in profile:* Low (about 3.7 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 4e
*Hydrologic Soil Group:* A
*Forage suitability group:* Sandy (G090XN022MN)
*Hydric soil rating:* No

**Minor Components**

**Poskin**

*Percent of map unit:* 5 percent
*Hydric soil rating:* No

**Kingsley**

*Percent of map unit:* 5 percent
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Washington County, Minnesota
Survey Area Data: Version 14, Oct 9, 2018