

# Preliminary & Field Evaluation Form

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Owner Information			
Date	11/11/2023	Sec / Twp / Rng	sec:7 twp:52 rg:23
Parcel ID	02-0-013800	LUG (county, city, township)	aitkin co zoing
Property Owner:	Barry and Nichol Arcand	Owners address (if different)	
Property Address:	JAcabson, mn., 55752 hwy 200... 100ft past rgn189	cn North Side of Hwy 157 Rd on Left	2471 taylor ave
City / State / Zip:	Jacobson, mn. 55752	white bear lake, mn., 55110	
	No <del>to</del> Yes		

Flow Information and Waste Type / Strength			
Estimated Design flow	450	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input checked="checked" type="checkbox"/> Domestic
Comments:		Any Non-Domestic Waste	<input type="checkbox"/> Yes (class V) <input checked="checked" type="checkbox"/> No
		Sewage ejector/grinder pump	<input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
		Water softener	<input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
		Garbage Disposal	<input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
		Daycare / In home business	<input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No

Site Information			
Existing & proposed lot improvements located (see site map)	<input type="checkbox"/> Yes	<input checked="checked" type="checkbox"/> No	Well casing depth _____
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input checked="checked" type="checkbox"/> No	Drainfield w/in 100' of residential well <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
Property lines determined (see site map)	<input checked="checked" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS) <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
Req'd setbacks determined (see site map)	<input checked="checked" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input checked="checked" type="checkbox"/> Yes	<input type="checkbox"/> No	Buried water supply pipe w/in 50' of system <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
Access for system maintenance (shown on site map)	<input checked="checked" type="checkbox"/> Yes	<input type="checkbox"/> No	Site located in Shoreland (w/in 1000' of lake, 300' of river) <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
Soil treatment area protected	<input checked="checked" type="checkbox"/> Yes	<input type="checkbox"/> No	Site map prepared with previous items included <input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No
Construction related issues _____			







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Map Unit Legend

Aitkin County, Minnesota (MN001)

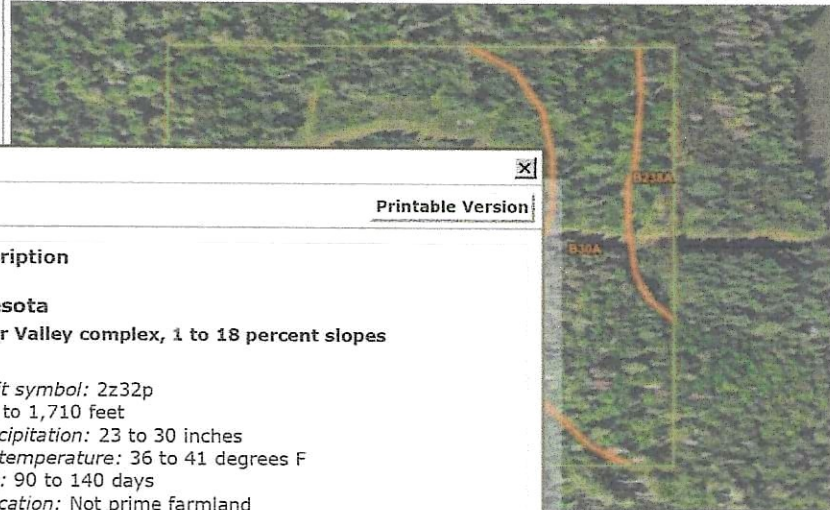
Aitkin County, Minnesota (MN001)

Map Unit Symbol	Map Unit Name	Acres	Percent of
B30A	Sago muck, 0 to 1 percent slope frequently ponded		
B238A	Cowhorn-Onega Sago, frequently ponded complex, 0 to 3 percent slopes		
B240D	Wawina-Cedar Valley complex, to 18 percent slopes		

Totals for Area of Interest

Soil Map

Scale: (not to scale) v



Map Unit Description

Report — Map Unit Description

Aitkin County, Minnesota

B240D—Wawina-Cedar Valley complex, 1 to 18 percent slopes

Map Unit Setting

*National map unit symbol:* 2z32p  
*Elevation:* 1,020 to 1,710 feet  
*Mean annual precipitation:* 23 to 30 inches  
*Mean annual air temperature:* 36 to 41 degrees F  
*Frost-free period:* 90 to 140 days  
*Farmland classification:* Not prime farmland

Map Unit Composition

*Wawina and similar soils:* 50 percent  
*Cedar valley and similar soils:* 30 percent  
*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Wawina

Setting

*Landform:* Dunes  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Eolian sands

Typical profile

*A - 0 to 2 inches:* very fine sandy loam  
*E - 2 to 6 inches:* loamy very fine sand  
*Bw - 6 to 25 inches:* loamy very fine sand  
*Bt - 25 to 26 inches:* loamy very fine sand  
*C - 26 to 79 inches:* loamy very fine sand

Properties and qualities

*Slope:* 3 to 18 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Moderate (about 6.7 inches)

Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5s  
*Hydrologic Soil Group:* B  
*Ecological site:* F088XY015MN - Loamy Upland Wet-Mesic Mixed Forest  
*Forage suitability group:* Sloping Upland, Low AWC, Acid (G088XN008MN)  
*Other vegetative classification:* Sloping Upland, Low AWC, Acid (G088XN008MN)

*Hydric soil rating:* No

#### Description of Cedar Valley

##### Setting

*Landform:* Dunes

*Landform position (two-dimensional):* Summit, shoulder, backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Eolian sands

##### Typical profile

*A - 0 to 4 inches:* very fine sandy loam

*Bw - 4 to 49 inches:* very fine sand

*Cg - 49 to 79 inches:* very fine sand

##### Properties and qualities

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 6.00 in/hr)

*Depth to water table:* About 30 to 39 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* Moderate (about 8.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4s

*Hydrologic Soil Group:* C

*Ecological site:* F088XY015MN - Loamy Upland Wet-Mesic Mixed Forest

*Forage suitability group:* Sloping Upland, Low AWC, Acid (G088XN008MN)

*Other vegetative classification:* Sloping Upland, Low AWC, Acid (G088XN008MN)

*Hydric soil rating:* No

##### Minor Components

###### Cowhorn

*Percent of map unit:* 10 percent

*Landform:* Dunes

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* F088XY011MN - Moist Sandy Mixed Forest

*Other vegetative classification:* Level Swale, Low AWC, Acid (G088XN007MN)

*Hydric soil rating:* No

###### Omega

*Percent of map unit:* 5 percent

*Landform:* Interdunes

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Concave, linear

*Across-slope shape:* Linear

*Ecological site:* F088XY008MN - Wet Mixed Forest

*Other vegetative classification:* Level Swale, Acid (G088XN005MN)

*Hydric soil rating:* Yes

###### Kapla

*Percent of map unit:* 5 percent

*Landform:* Interdunes

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave, linear

*Ecological site:* F088XY007MN - Wet Depressional Forest

*Other vegetative classification:* Not Suited (G088XN024MN)

*Hydric soil rating:* Yes

#### Description — Map Unit Description





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Map Unit Legend

**Aitkin County, Minnesota (MN001)**

Aitkin County, Minnesota (MN001)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
B30A	Sago muck, 0 to 1 percent slopes, frequently ponded	2.6	21.7%
B238A	Cowhorn-Onega-Sago, frequently ponded complex, 0 to 3 percent slopes	0.6	4.7%
B240D	Wawina-Cedar Valley complex, 1 to 18 percent slopes	8.7	73.7%
<b>Totals for Area of Interest</b>		<b>11.8</b>	<b>100.0%</b>

Soil Map

Scale: (not to scale) v



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

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map 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.