

# PEDON 02

## SITE INFORMATION

This pedon is on a rotational grazing paddock on a farm in the far western portion of Portage County, in central WI. The slope is 2% and the paddock contains perennial grasses. The soil moisture regime is udic in an upland location and the soil temperature regime is mesic. The site has no ponding or flooding.

## LANDFORM

The soils in the area often have a thin loess mantle overlying loamy till with igneous or metamorphic rocks. The landform in the area is best described as ground moraine.

## HILLSLOPE POSITION



## SOIL PIT INFORMATION

Some coarse fragments were found in the first horizon, but were likely a result of frost action and not associated with the surficial parent material. The second horizon had platy structure due to the cattle. The third and fourth horizons are combinational horizons and data is given for each part. Clay skins are evident in portions of these combinational horizons. Clay skins are also evident in 5<sup>th</sup> and 6<sup>th</sup> horizons. Concentrations of Fe can be found in all horizons and Mn concentrations in upper solum. The Fe concentrations were 1st (5%; 7.5YR 3/4), 2nd (8%; 7.5YR 4/4), 3rd (10%; 7.5YR 4/6), 4th (8%; 7.5 YR 4/6), 5th (8%; 7.5YR 4/6), and 6th (8%; 7.5YR 4/6). Depletions were found in the 4th (4% 7.5YR 4/2); 5th (5% 7.5YR 4/2), and 6th (6%; 7.5YR 4/2).

## CHARACTERIZATION DATA

Horizon	pH	BS %	Organic C %
1	6.69	80	2.31
2	7.14	92	0.50
3	6.60	78	0.41
4	6.47	74	0.78
5	5.31	44	0.58
6	5.81	48	0.62

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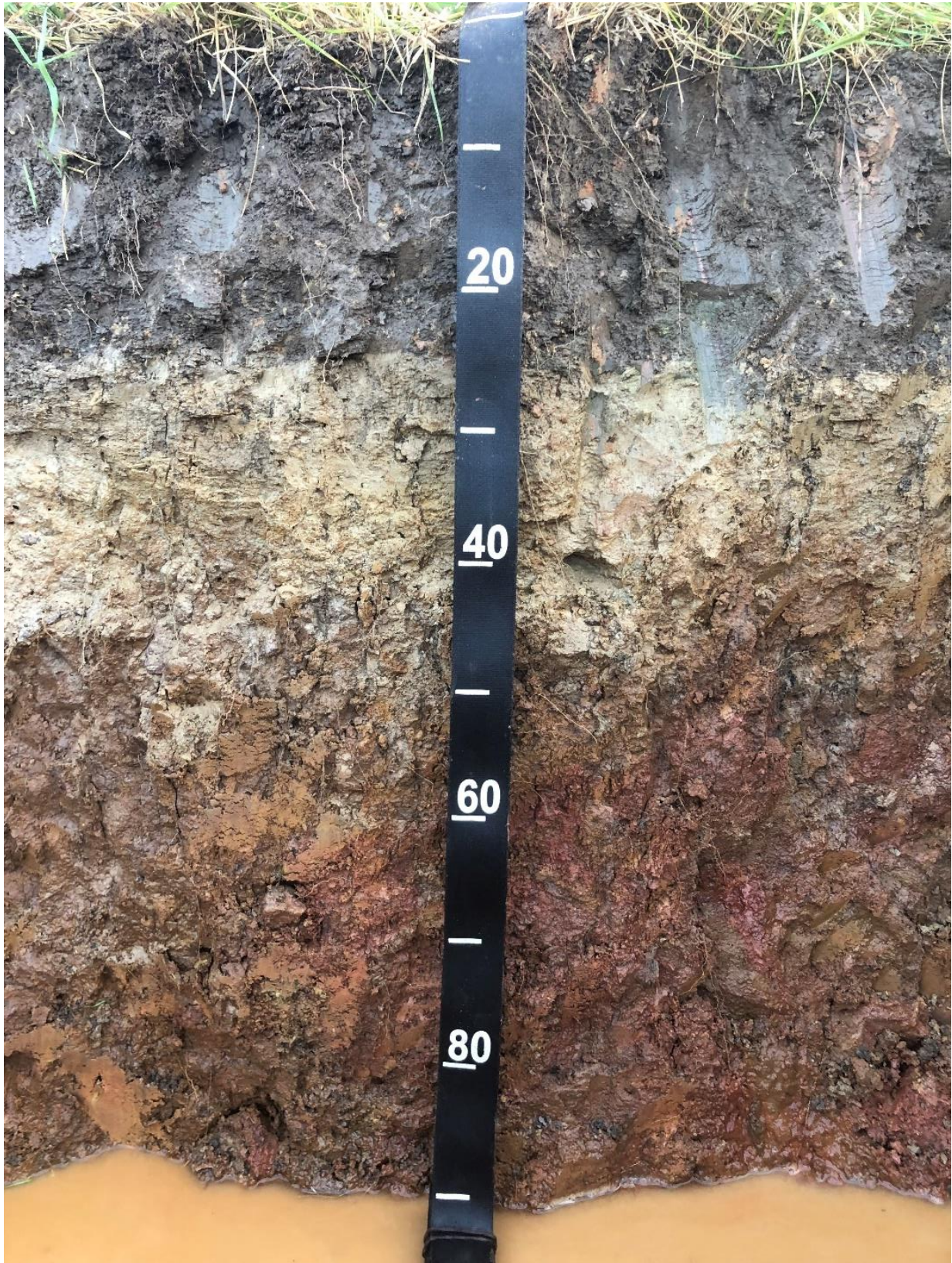
## SITE IMAGE





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## PROFILE IMAGE





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## SCORECARD BLANK

### SCORECARD VIRTUAL NATIONAL SOIL JUDGING CONTEST APRIL 5-16, 2021

1. _____
2. _____
3. _____
4. _____
5. _____
Total _____

Contestant: EXAMPLE  
 School: \_\_\_\_\_  
 Pedon Number: 02

Horizonation			Boundary		Texture				Color			Structure		Cons.	Soil Features		Score (35)				
Master Pre. (5)	Master Let. (5)	Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape		Moist Strength	Redox Depl.	Redox Conc.	EFF.
				24	A	31	64	6R	2			10YR	3	2	2	PL	FR	-	Y	-	
				32	C	38	53	6R	2			10YR	5	3	2	PL	FR	-	Y	-	
				46	C	39	54	6R5				10YR	5	3	1	PL	FR	-	Y	-	
				46	C	45	30	6R5				7.5YR	3	1	1	PR	FR	-	Y	-	
				60	C	48	21	6R11				7.5YR	3	4	3	PR	FR	-	Y	-	
				82	C	49	20	6R	15			7.5YR	3	4	2	PR	FR	-	Y	-	
				100+	-	61	17	6R	17			5YR	4	4	2	PR	FR	-	Y	-	

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**2. Soil Profile Characteristics**

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5) _____ High _____ Mod. _____ Low	Limiting Layer (5) _____ High _____ Mod. _____ Low	_____ gpd/ft <sup>2</sup> (3) Ref. (2) _____	_____ V. shallow (<25 cm) _____ Shallow (25 to 49 cm) _____ Mod. deep (50 to 99 cm) _____ Deep (100 to 150 cm) _____ Very deep (≥150 cm)	_____ Very low (< 7.5 cm) _____ Low (7.5 to < 15 cm) _____ Mod. (15 to < 22.5 cm) _____ High (≥ 22.5 cm)	_____ (> 150 cm) _____ (100 to 150 cm) _____ (50 to 99 cm) _____ (25 to 49 cm) _____ (< 25 cm)

Score: \_\_\_\_\_

**3. Site Characteristics**

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
LOESS GLACIAL TILL	GROUND MORANE	29%	_____ Summit _____ Shoulder _____ Backslope _____ Footslope _____ Toeslope _____ None	_____ Ponded _____ Very slow _____ Slow _____ Medium _____ Rapid _____ Very rapid	_____ Very Low _____ Low _____ Medium _____ High _____ Very High

Score: \_\_\_\_\_

**4. Soil Classification**

Epipedon (5)	Subsurface horizons and/or diagnostic features (5 each)	Order (10)	Suborder (10)	Great Group (10)

Score: \_\_\_\_\_

**5. Interpretations**

Houses with Basements (3)	Septic Tank Abs. Fields (3)	Local Roads and Streets (3)	Corn (3)	Hopyards (3)	Created Wetlands (3)
_____ Slight _____ Moderate _____ Severe	_____ Slight _____ Moderate _____ Severe	_____ Slight _____ Moderate _____ Severe	_____ Slight _____ Moderate _____ Severe	_____ Slight _____ Moderate _____ Severe	_____ Slight _____ Moderate _____ Severe
Reason # (2): _____	Reason # (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____

Score: \_\_\_\_\_