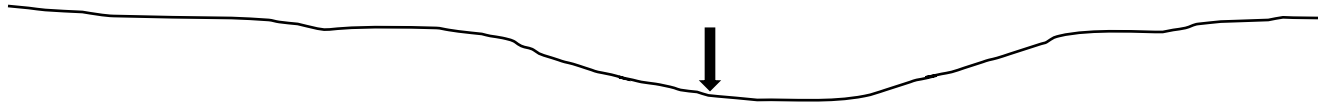# PEDON 07

SITE INFORMATION

This soil is found in shallow vernal pool depression. The vegetation is a mixed forest with mostly coniferous vegetation. The land was formerly in agriculture. The site has no flooding, but has common ponding frequency.

LANDFORM

The site occurs on a depression in an outwash plain. The slope is 2%.

HILLSLOPE POSITION

SOIL MOISTURE AND TEMPERATURE REGIMES

Soil moisture regime is aquic and soil temperature regime is mesic.
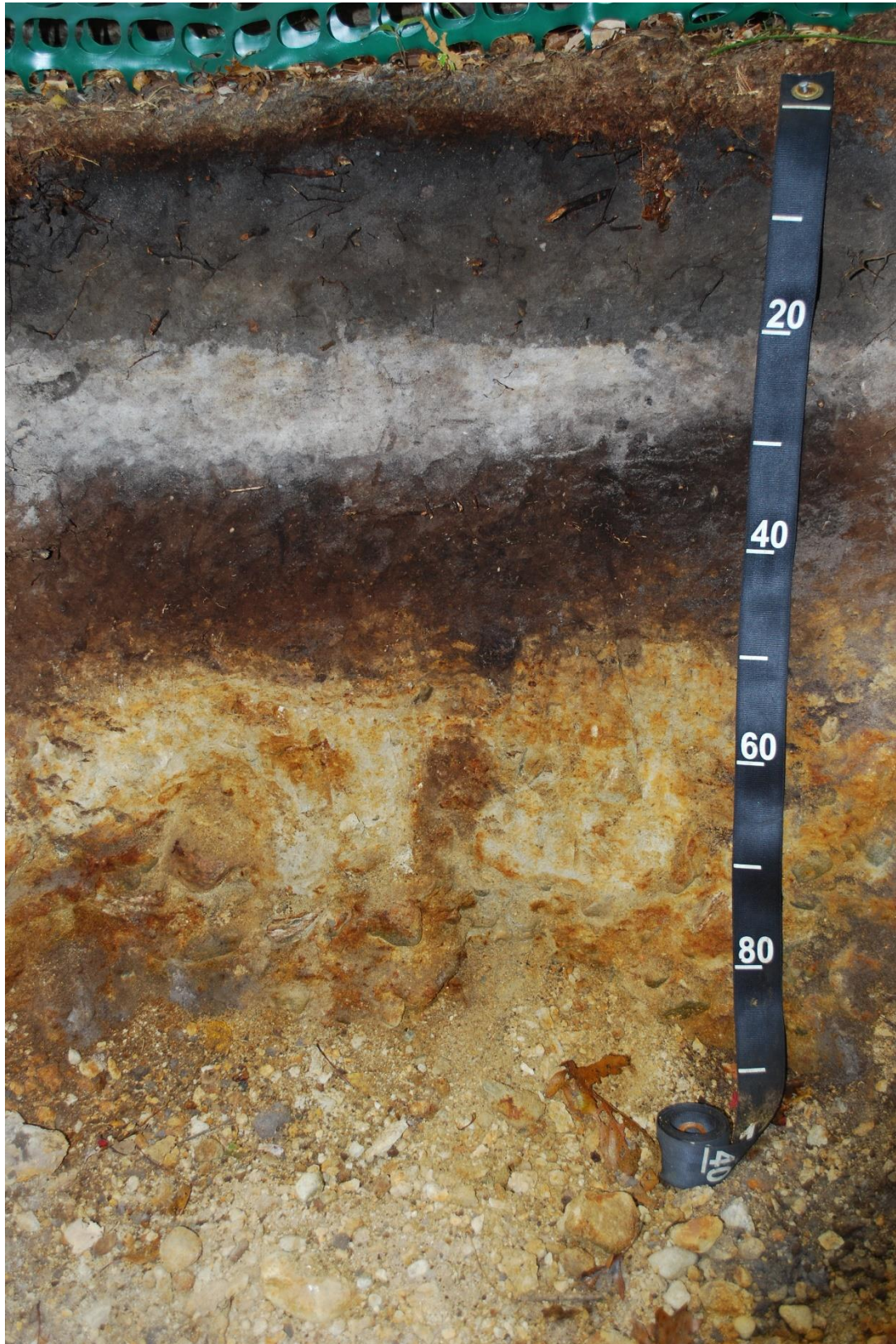
SOIL PIT INFORMATION

Note the abrupt boundaries of the 2nd and 3rd horizons associated with the previous land use. Strong gleying is present in 4th horizon. The soil has a seasonally high water table within a depth of 50 cm. The 6th horizon is >90% cemented with iron. Horizons 1-6 are dominated by medium sized san, and the sand in 7th horizon is coarse. The gravel in the 6th and 7th horizon is well rounded and 1-5 cm in diameter. The Fe content is greater 0.1% in all horizons.

CHARACTERIZATION DATA

Horizon	pH (1:1 water)	Base saturation (%)	OC (%)	Rubbed fiber (%)
1	4.0	30	24	30
2	5.1	43	5.0	n/a
3	5.3	45	2.5	n/a
4	4.9	40	0.5	n/a
5	5.0	42	1.8	n/a
6	5.1	44	0.3	n/a
7	5.0	43	0.1	n/a

PEDON 07

PROFILE IMAGE

PEDON 07

SCORECARD

1.	___ ___			Contestant:	_____
2.	___ ___			School:	PRACTICE
3.	___ ___				
4.	___ ___			Pedon Number:	07
5.	___ ___				
Total					

1. Soil Morphology   Score:

Horizonation				Boundary		Texture						Color			Structure		Cons.	Soil Features			Score
Master		Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%) (5)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Redox Depl.	Conc.	Eff.	(35)
Pre. (5)	Let. (5)																				
				3	A	—	—	—	—	—	—	2.5 YR	2.5	1	—	—	—	—	—	—	
				7	A	57	40		1			7.5 YR	2.5	1	1	GR	VFR	—	—	—	
				19	A	54	42		1			7.5 YR	2.5	1	1	SBK	FR	—	—	—	
				28	A	59	38		1			5 YR	4	1	1	SBK	VFR	—	Y	—	
				48	C	60	37		1			2.5 YR	3	3	1	SBK	FR	—	Y	—	
				69	A	68	29		16			10 YR	5	4	1	SBK	VFI	Y	Y	—	
				100+	—	80	19		39			10 YR	4	4	1	SBK	FI	Y	Y	—	

PEDON 07

2. Soil Profile Characteristics
Score: _____

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5)	Limiting Layer (5)		____ V. shallow (<25 cm)	____ Very low (< 7.5 cm)	____ (> 150 cm)
____ High	____ High	____ gpd/ft² (3)	____ Shallow (25 to 49 cm)	____ Low (7.5 to < 15 cm)	____ (100 to 150 cm)
____ Mod.	____ Mod.		____ Mod. deep (50 to 99 cm)	____ Mod. (15 to < 22.5 cm)	____ (50 to 99 cm)
____ Low	____ Low	Ref. (2) _____	____ Deep (100 to 149 cm)	____ High (≥ 22.5 cm)	____ (25 to 49 cm)
			____ Very deep (≥150 cm)		____ (< 25 cm)

3. Site Characteristics
Score: _____

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
OUTWASH	DEPRESSION	2%	____ Summit	____ Ponded	____ Very Low
			____ Shoulder	____ Very slow	____ Low
			____ Backslope	____ Slow	____ Medium
			____ Footslope	____ Medium	____ High
			____ Toeslope	____ Rapid	____ Very High
			____ None	____ Very rapid	

4. Soil Classification
Score: _____

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

5. Interpretations
Score: _____

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

PEDON 07