

PEDON 15

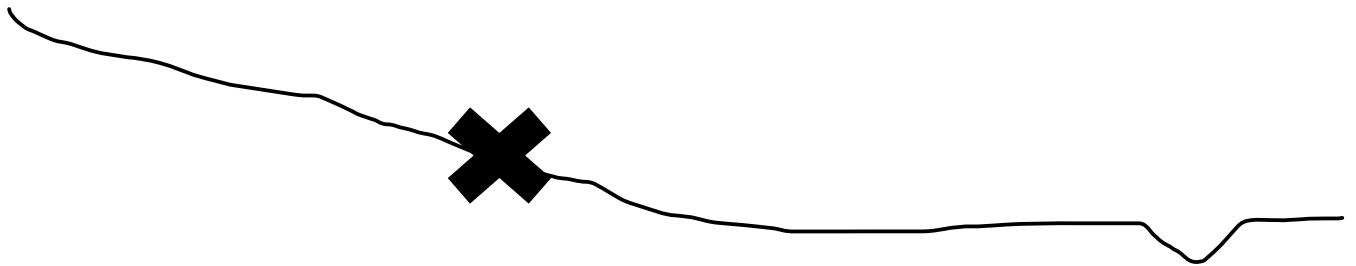
SITE INFORMATION

Felsic crystalline area of the North Carolina Piedmont outside of the city of Raleigh. Site is on the edge of a wooded riparian buffer in pasture with grass, has been cultivated in the past. Slope is 18% with established perennial grass cover. Site has no ponding or flooding.

LANDFORM

Soil pit was dug in the center of an upland nose slope. The felsic crystalline areas of the Piedmont are characterized as having primarily metamorphic (schist, gneiss) bedrock with extensive areas of granitic igneous intrusions. The parent materials are colluvium over residuum. The slope is 18%.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIMES

The soil moisture regime is udic and soil temperature regime is thermic.

SOIL PIT INFORMATION

The 2nd horizon is a transitional horizon. The 3rd and 4th horizons have common distinct clay films on ped surfaces and in pores. The clay has low plasticity. Sands are dominantly medium size. Coarse fragments are angular-subangular, equidimensional, and 2-50 mm in size.

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CHARACTERIZATION DATA

Horizon	Organic C (%)	Base Saturation (%)	ECEC (cmol+ /kg clay)	CEC (cmol+/kg clay)
1	1.5	33	2.4	9.5
2	0.4	27	2.6	5.6
3	0.3	23	4.2	7.4
4	0.3	8	3.4	5.5
5	0.1	8	3.5	6.1

SITE IMAGE

Pit located where red arrow is on the landscape.



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PEDON IMAGE



Official measurements of horizon depths were taken from the center of this image.

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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) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low	Limiting Layer (5) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low	_____ gpd/ft ² (3) Ref: (2) _____	<input type="checkbox"/> V. shallow (<25 cm) <input type="checkbox"/> Shallow (25 to 49 cm) <input type="checkbox"/> Mod. deep (50 to 99 cm) <input type="checkbox"/> Deep (100 to 149 cm) <input type="checkbox"/> Very deep (≥150 cm)	<input type="checkbox"/> Very low (< 7.5 cm) <input type="checkbox"/> Low (7.5 to < 15 cm) <input type="checkbox"/> Mod. (15 to < 22.5 cm) <input type="checkbox"/> High (≥ 22.5 cm)	<input type="checkbox"/> (> 150 cm) <input type="checkbox"/> (100 to 150 cm) <input type="checkbox"/> (50 to 99 cm) <input type="checkbox"/> (25 to 49 cm) <input type="checkbox"/> (< 25 cm)

3. Site Characteristics

Score: _____

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
COLLUVIUM RESIDUUM	UPLAND NOSE SLOPE	18%	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input type="checkbox"/> None	<input type="checkbox"/> Ponded <input type="checkbox"/> Very slow <input type="checkbox"/> Slow <input type="checkbox"/> Medium <input type="checkbox"/> Rapid <input type="checkbox"/> Very rapid	<input type="checkbox"/> Very Low <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High

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)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Reason # (2): _____	Reason # (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____