

**SCORECARD**  
**REGION 3 SOILS CONTEST**  
**October 19 & 20, 2023**



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

Contestant I.D. TPAC Practice Pit 11  
 Site No. \_\_\_\_\_  
 Horizons 5  
 Describe to a depth of 105 cm  
 Nail in third horizon at 46 cm

**I. Soil Morphology**

**Score:**

Horizonation				Boundary		Texture					Color			Structure		Cons.	Soil Features			Score
Master		Sub. (2)	No. (2)	Lower Depth (cm) (2)	Dist. (2)	Sand% (±5%) (2)	Clay% (±5%) (2)	CF Mod. (2)	Sand Mod. (2)	Class (2)	Hue (2)	Value (2)	Chroma (2)	Grade (2)	Shape (2)	Moist Strength (2)	Redox		Efferv. (2)	Possible (40)
Prefix (2)	Let. (2)																Depl. (2)	Conc. (2)		
—	A	p	1	18	C	10	20	—	—	SIL	10YR	3	2	2	GR	FR	—	—	—	
—	A	p	2	35	C	10	24	—	—	SIL	10YR	3	2	2	SBK	FI	—	—	—	
—	A	—	—	52	A	10	24	—	—	SIL	10YR	2	2	1	SBK	FR	—	—	—	
2	A	b	—	79	C	8	25	—	—	SIL	10YR	2	1	2	PR	FI	—	Y	—	
2	B	gb	—	105+	—	25	34	—	—	CL	10YR	4	2	2	PR	FI	Y	Y	—	

**II. 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 checked="" type="checkbox"/> High <input checked="" type="checkbox"/> Mod. <input type="checkbox"/> Low	Limiting Layer (5) <input checked="" type="checkbox"/> High <input checked="" type="checkbox"/> Mod. <input type="checkbox"/> Low	<u>0.52</u> gpd/ft <sup>2</sup> (3)  Ref. (2) <u>E5</u>	<input type="checkbox"/> Very 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 150 cm) <input checked="" 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 checked="" type="checkbox"/> High (≥ 22.5 cm)	<input checked="" type="checkbox"/> (< 25 cm) <input type="checkbox"/> (25 to 49 cm) <input type="checkbox"/> (50 to 99 cm) <input type="checkbox"/> (100 to 150 cm) <input type="checkbox"/> (> 150 cm)

**III. Site Characteristics**

**Score:**

Parent Material (5 each)	Landform (5)		Slope (5)	Slope Profile (5)	Surface Runoff (5)	Erosion Pot. (5)
<input checked="" type="checkbox"/> Alluvium <input type="checkbox"/> Beach deposit <input type="checkbox"/> Colluvium <input type="checkbox"/> Eolian sand <input type="checkbox"/> Glacial outwash <input type="checkbox"/> Human trans. materials <input type="checkbox"/> Lacustrine deposit <input type="checkbox"/> Loess <input type="checkbox"/> Glacial till <input type="checkbox"/> Pedisediment <input type="checkbox"/> Residuum	<u>Constructional</u> <input type="checkbox"/> Floodplain <input type="checkbox"/> Stream terrace <input type="checkbox"/> Kame/esker <input checked="" type="checkbox"/> Alluvial fan <input type="checkbox"/> Loess plain/hillslope <input type="checkbox"/> Outwash plain <input type="checkbox"/> Sand dune <input type="checkbox"/> Lake plain <input type="checkbox"/> Till plain/drumlin/moraine	<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     Choose only one landform                 </div> <u>Erosional</u> <input type="checkbox"/> Upland headslope <input type="checkbox"/> Upland sideslope <input type="checkbox"/> Upland noseslope <input type="checkbox"/> Interfluve	<input checked="" type="checkbox"/> 0 to < 2% <input type="checkbox"/> 2 to < 6% <input type="checkbox"/> 6 to < 12% <input type="checkbox"/> 12 to < 20% <input type="checkbox"/> ≥ 20%  0.5 % slope <i>(not graded)</i>	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input checked="" type="checkbox"/> None	<input type="checkbox"/> Ponded <input checked="" type="checkbox"/> Very slow <input type="checkbox"/> Slow <input type="checkbox"/> Medium <input type="checkbox"/> Rapid <input type="checkbox"/> Very rapid	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High

Possible Shoulder or backslope

**IV. Soil Classification**

**Score:**

Epipedon (5)	Subsurface Horizon/ Feature (5 each)	Order (5)	Suborder (5)	Great Group (5)	Family Particle Size Control Section (5)	Family Particle Size Class (5 each)
<input checked="" type="checkbox"/> Mollic <input type="checkbox"/> Ochric <input type="checkbox"/> Umbric <input type="checkbox"/> None	<input type="checkbox"/> Albic <input type="checkbox"/> Argillic <input type="checkbox"/> Calcic <input checked="" type="checkbox"/> Cambic <input type="checkbox"/> Densic <input type="checkbox"/> Glossic <input type="checkbox"/> Lamellae <input type="checkbox"/> Lithic <input type="checkbox"/> Paralithic <input type="checkbox"/> Spodic <input type="checkbox"/> None	<input type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input checked="" type="checkbox"/> Mollisol <input type="checkbox"/> Spodosol <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Alb <input checked="" type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input type="checkbox"/> Ud <input type="checkbox"/> Other	<input type="checkbox"/> Alb <input type="checkbox"/> Argi <input type="checkbox"/> Calci <input checked="" type="checkbox"/> Dystr <input checked="" type="checkbox"/> Endo <input type="checkbox"/> Epi <input type="checkbox"/> Eutr <input type="checkbox"/> Fluv <input type="checkbox"/> Gloss <input type="checkbox"/> Hapl <input type="checkbox"/> Pale <input type="checkbox"/> Psamm <input type="checkbox"/> Quartzi <input type="checkbox"/> Ud(i) <input type="checkbox"/> Other	<input type="checkbox"/> Mineral soil surface to root limiting layer <input type="checkbox"/> 25 cm to root limiting layer <input checked="" type="checkbox"/> 25 to 100 cm <input type="checkbox"/> Lower boundary of Ap to root limiting layer <input type="checkbox"/> Lower boundary of Ap to 100 cm <input type="checkbox"/> All of the argillic <input type="checkbox"/> Upper 50 cm of argillic <input type="checkbox"/> Upper boundary of argillic to root limiting layer <input type="checkbox"/> Upper boundary of argillic to 100 cm <input type="checkbox"/> Other	<input type="checkbox"/> Sandy-skeletal <input type="checkbox"/> Loamy-skeletal <input type="checkbox"/> Clayey-skeletal <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Clayey  <input type="checkbox"/> Coarse-loamy <input checked="" type="checkbox"/> Fine-loamy <input type="checkbox"/> Coarse-silty <input type="checkbox"/> Fine-silty <input type="checkbox"/> Fine <input type="checkbox"/> Very-fine  <p><b>Note: For strongly contrasting classes, indicate the upper class with a "1" and the lower class with a "2". For example: coarse loamy over clayey-skeletal should have a "1" marked next to coarse-loamy, and a 2 marked next to clayey-skeletal.</b></p>

**V. Interpretations**

**Score:**

Houses With Basements (3)	Septic Tank Absorption Fields (3)	Local Roads and Streets (3)	Hydric (3)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe Reason # (3): <u>3</u>	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe Reason # (3): <u>5</u>	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor Reason # (3): <u>4</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Indicator (3): <u>None</u>