

# Onsite Sewage Treatment Program Soil Observation Log



<b>Client/ Address:</b>	<b>Legal Description/GPS:</b>	<b>Date:</b>
<b>Soil Parent Material(s):</b> Till (circle all that apply)	Outwash    Lacustrine    Alluvium    Loess    Organic Matter	<b>Bedrock</b>
<b>Landscape Position:</b> Summit (circle one)	Shoulder    Back/Side Slope    Foot Slope    Toe Slope	<b>Slope Shape:</b>
<b>Vegetation:</b>	<b>Soil Survey Map Unit(s):</b>	<b>Slope (%):</b>
<b>Weather conditions/Time of Day:</b>	<b>Observation #/Location/Method:</b>	<b>Elevation:</b>

Depth (in)	Texture	Rock Frag %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil		Consistence	
						Indicator(s) (see back)	Structure Shape		Structure Grade
					Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
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**Comments:**

<b>Certified Statement:</b> I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.	_____ (Designer)	_____ (Signature)	_____ (License #)	_____ (Date)
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**Textures:**

- c-clay
- sic-silty clay
- sc-sandy clay
- cl-clay loam
- sicl-silty clay loam
- scl-sandy clay loam
- si-silt
- sil-silt loam
- l-loam
- sl-sandy loam\*
- ls-loamy sand\*
- s-sand\*

\* Sand Modifiers  
 co-coarse  
 m-medium  
 f-fine  
 vf-very fine

**Soil Structure**

**Grade:**

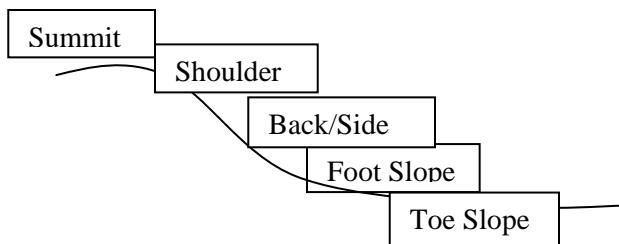
Weak-poorly formed, indistinct peds, barely observable in place

Moderate-Well formed, distinct peds, moderately durable and evident, but not distinct in undisturbed soil

Strong-durable peds that are quite evident in un-displaced soil, adhere weakly to one another, withstand displacement, and become separated when soil is disturbed

Loose-no peds, sandy soil

**Landscape Position:**



**Soil Structure**

**Shape:**

Granular-the peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots when soil is turned over.

Platy-the peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas just below the leaf litter or shallow topsoil.

Blocky-the peds are block-like or polyhedral, and are bounded by flat or slightly rounded surface that are casting of the faces of surrounding peds. Blocky structure is commonly found in the lower topsoil and subsoil.

Prismatic- flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of adjoining peds. Prismatic structure is commonly found in the lower subsoil.

Single Grain-the structure found in a sandy soil. The individual particles are not held together.

Massive-no observable aggregates, or no orderly arrangement of natural lines of weakness

**Consistence:**

- Loose-intact specimen not available
- Friable-slight force between fingers
- Firm-moderate force between fingers
- Extremely firm-moderate force between hands or slight foot pressure
- Rigid-foot pressure

**Subsoil Indicator(s) of Saturation:**

- S1. Depleted matrix (value  $\geq 4$  and chroma  $\leq 2$ )
- S2. Distinct gray or red redox features
- S3. 5Y chroma  $\leq 3$
- S4. 7.5 YR or redder faint redox concentrations or redox depletions

If yes to one of the above indicators then:

**Topsoil Indicator(s) of Saturation:**

- T1. Wetland vegetation
- T2. Depressional landscape
- T3. Organic texture or organic modifiers
- T4. N 2.5/ 0 color
- T5. Redox features in topsoil
- T6. Hydric soil

**Slope Shape** - Slope shape is described in two directions: up-and-down slope (perpendicular to the contour), and across slope (along the horizontal contour); e.g., Linear, Convex or LV.

