

Water Sorted Observation Data Sheet Instructions schmied©2010

Materials

Water sorted Samples A, B, & C Water Sorted Figure sheet Colored

Pencils

Draft Data Table One/Pencil 2 Dual lens hand magnifier Metric rulers

Procedure: - Put your Period number in front of each step when complete

Each team member work together and follow steps below to complete Water Sorted Observation Data Sheet. This section should take a team about 30-35 minutes.

DO NOT SHAKE ANY SAMPLE!!! HANDLE EXTREMELY CAREFULLY!!!

1. Obtain a sample and put in the center of lab station. Note Sample (A, B, or C)
2. Each team member draw sample in proper section of the Water sorted observation figure sheet for the soil sample (Sample A, B, or C).

Please actually draw on paper what is really in the sample. This job must be done CQC, and accurate, or you will receive low credit for the job.

3. **Instructions.** Label and write parts C – F on lined side of the paper, add sheet in needed.
 - a. Draw Layers – Accurately draw each layer; there may be a couple colors per layer.
 - b. Number Layers: Number each Layer from top to bottom (1, 2, 3....)
 - c. Percent Layer: Estimate the % of soil sample each layer represents (Layer 1=25% etc
 - d. Description of layer: Accurately describe materials in each layer (ex: 100% wood, decaying leaves and needles. Ex2: 75% sand, 10% organics, 10% stone, and 5% minerals)
 - e. Grain size: Estimate grain size of largest and smallest sand particles (in mm) in sample. (use metric ruler and estimate from there if needed.)

- f. **Organics to Inorganics Ratio:** Estimate the overall Ratio of Organic material (once living material) to inorganic material (never living material, like sand, minerals, stones) in the sample
4. Once sample is accurately completed, get next sample and repeat the process.
Note: You will have to share samples so be sure to arrange with another station so that you both don't need the same sample last!
5. Return samples and clean up and around lab station.