

Soil Investigation

Soil Particle Density Data Sheet

Note: All measurements should be made without the stopper/cap!!

Date soil is mixed with water: year _____ month _____ day _____

Study Site: _____

Horizon number: _____

How has the soil been stored since it came out of the oven? _____

Length of time since the soil was dried in the oven: _____

Other comments: _____

		Sample Number		
		1	2	3
Mass of empty flask (g)	(B below)			
Mass of soil + empty flask (g)	(A below)			
Mass of water + soil + flask (g)	(D below)			
Water Temperature (°C)	(F below)			

Calculation Work Sheet

		Sample Number		
		1	2	3
A	Mass of soil + empty flask (g)			
B	Mass of empty flask (g)			
C	Mass of soil (g) (A – B)			
D	Mass of water + soil + flask (g)			
E	Mass of water (D – A)			
F	Water Temperature (°C)			
G	Density of water (g/mL) (approximately 1.0)			
H	Volume of water (mL) (E/G)			
I	Volume of soil (mL) (100 mL – H)			
J	Soil particle density (g/mL) (C/I)			