

COMPACTION TEST

Date _____

Project _____

Boring No. _____ Sample No. _____

Mold No. _____ inch diam mold _____ Volume of mold, V, in cc = asd _____

Mold constant, C = 62.4/ V= _____ Initial water content, w = _____
0

blows per each of _____ layers, with _____ lb rammer _____ inch drop _____

Specimen No. _____

Preparation of Specimen _____

$100 + w_0$

Weight in Grams	Oven - dry soil	W_s					
	Wet Soil = $\frac{W_s(100 + w_0)}{100}$	W_o					
	Tare						
	Tare plus wet soil						

Test water content _____ W _____ % _____ % _____ % _____ % _____ %

Water added = $\frac{W_s(w - w_0)}{100}$ in cc _____

Compacted specimen _____

Weight in Grams	Mold plus wet soil						
	Mold tare						
	Wet soil	W					
	Dry Soil = $\frac{100W}{100 + W}$	W_s					

Water content = $\frac{W - W_s}{W_s} \times 100$ _____ w _____ % _____ % _____ % _____ %

lb per cu ft	Wet unit wt = CW	γ_m					
	Dry unit wt = CW_s	γ_d					

Water content determinations _____

Specimen No. _____

Tare No. _____

Weight in Grams	Tare plus wet soil						
	Tare plus dry soil						
	Water	W_w					
	Tare						
	Dry soil	W_s					

Water content = $\frac{W_w}{W_s} \times 100$ _____ W _____ % _____ % _____ % _____ %

Remarks _____

Technician _____ Computed By _____ Checked By _____