

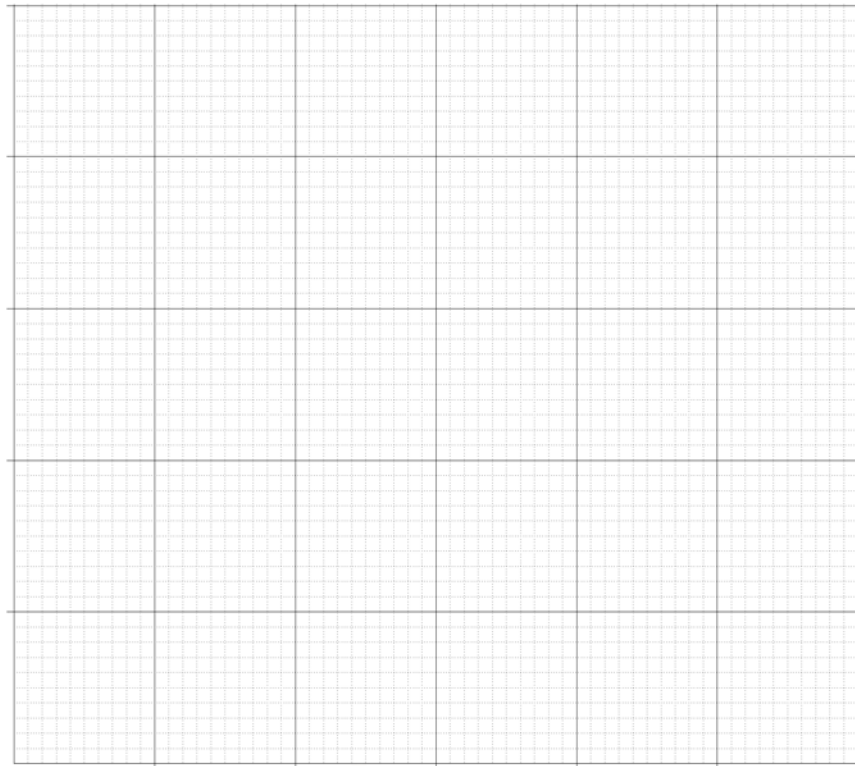
WORKSHEET FOR DETERMINING MOISTURE/DENSITY RELATIONSHIPS AASHTO T 99 AND AASHTO T 180

Project: _____ Source: _____
 Where sampled: _____ Quantity represented: _____
 Sample of: _____ Lot No. _____ Sample No. _____
 Sampled by: _____ Date: _____ Tested by: _____ Date: _____

USC Metric AASHTO T 99 AASHTO T 180 Method A B C D

Density Determination	Test No.					
	(a) Wet soil + mold tare	lbs (kg)				
	(b) Mold tare	lbs (kg)				
	(c) Wet mass [a - b]	lbs (kg)				
	(d) Wet density [$k * c$] ¹	lb/ft ³ (kg/m ³)				
Dry density [$d/(1+0.01*w)$]		lb/ft ³ (kg/m ³)				
¹ For USC system calculations with molds within tolerance, k = 30 for methods A and C or 13.33 for methods B and D. For metric system calculations with molds within tolerance, k= 1060 for methods A and C or 471 for methods B and D.						
Moisture Determination	Pan No.					
	(r) Wet soil mass + tare	g				
	(s) Dry soil mass + tare	g				
	(t) Tare	g				
	(u) Dry soil mass [s - t]	g				
	(v) Water mass [r - s]	g				
	(w) Moisture [$v / u * 100$]	%				

Dry Density, lbs/ft³ (kg/m³)



Maximum Dry Density:
 _____ lb/ft³ (kg/m³)

Optimum Moisture:
 _____ %