

SPECIFIC-GRAVITY TESTS

1. PROJECT			2. DATE		
3. BORING NUMBER		4. JOB NUMBER		5. EXCAVATION NUMBER	
6. SPECIFIC GRAVITY OF SOLIDS (G_s)					
FLASK CALIBRATION DATA	a. FLASK NUMBER	b. CLEAN, DRY WEIGHT, W_b Grams	c. FLASK + WATER WEIGHT, W_{bw} Grams		d. OBSERVED TEMPERATURE, T_i °C
e. SAMPLE OR DETERMINATION NUMBER					
D E T E R M I N A T I O N	f. DISH NUMBER				
	g. WEIGHT OF DISH + DRY SOIL		Grams		
	h. WEIGHT OF DISH		Grams		
	i. WEIGHT OF DRY SOIL, W_s		Grams		
	j. WEIGHT OF FLASK + WATER + IMMERSSED SOIL, W_{bws}		Grams		
	k. TEMPERATURE OF WATER, T_x		°C		
	l. CALCULATED WEIGHT OF FLASK + WATER AT T_x , W_{bw}		Grams		
	m. CORRECTION FACTOR FOR T_x , K				
n. SPECIFIC GRAVITY OF SOLIDS		$G_s = \frac{W_s K}{W_s + W_{bw} - W_{bws}}$			
7. APPARENT (G_a) AND BULK (G_m) SPECIFIC GRAVITY					
a. SAMPLE OR SPECIMEN NUMBER					
b. TEMPERATURE OF WATER AND SOIL (°C) (must be within 23 ±1.7°C)					
c. TARE + SATURATED SURFACE - DRY SOIL					
D E T E R M I N A T I O N	d. TARE				
	e. SATURATED SURFACE - DRY SOIL, (B)				
	f. (WIRE BASKET + SOIL) IN WATER				
	g. WIRE BASKET IN WATER				
	h. SATURATED SOIL IN WATER, (C)				
	i. TARE AND DRY SOIL				
	j. TARE				
	k. DRY SOIL, (A)				
l. APPARENT SPECIFIC GRAVITY		$G_a = (A) / (A - C)$			
m. BULK SPECIFIC GRAVITY		$G_m = (A) / (B - C)$			
n. BULK SPECIFIC GRAVITY, SATURATED SURFACE DRY (SSD)		$G_m = (B) / (B - C)$			
8. REMARKS					
9. TECHNICIAN (Signature)		10. COMPUTED BY (Signature)		11. CHECKED BY (Signature)	