

## CORRELATION WORKSHEET

### CALIBRATION OF NUCLEAR GAUGE TO ASPHALT CORES

Project #		Date	
Contract ID		Gauge #	
County		Type Mix	
Plant/Contractor		Theoretical	
% AC		Lot #	
Mix I.D. #		Tested By	
Density Standard Count			

#### OBTAIN CORE DENSITIES

Sample Numbers					
Site	1	2	3	4	5
Air Weight					
SSD Weight or Wax Weight					
Water Weight					
Difference (SSD - Water Weight)					
Specific Gravity (Air Weight ÷ Difference)					
Density (Specific Gravity x 62.4)					

1. Average Core Density \_\_\_\_\_
2. Average Gauge Density\*\* \_\_\_\_\_
3. Density Offset (1-2) \_\_\_\_\_

Note: If 1 is higher than 2, offset will be a plus (+)  
 If 2 is higher than 1, offset will be a minus (-)

#### CALCULATE GAUGE DENSITIES

Site	1	2	3	4	5	Average
Gauge Density ** (Nuclear Gauge Readings)						**
Core Density						
Gauge Density (From 5 gauge readings, after offset is applied)						
Difference (Core Density - Gauge Density with offset)						

1. If the average difference is greater than .5 lbs/ft<sup>3</sup> (8.0095 Kg/m<sup>3</sup>), contact Area Coordinator or Field Supervisor for further instruction.