Washington State Department of Transportation

Correlation - Nuclear Gauge to Core Density

Contract Number	SR Number	Mode ☐ Thin Layer ☐ Direct	
Section			
Mix ID	HMA Class	Plan Lift Thickness	Project Engineer

	Station/Offset	Nuclear Gauge Density #/ft^3	Core Density #/ft^3	Density Ratio
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Reference: WSDOT SOP 730

$$\text{Density Ratio} = \frac{\text{Core Density}}{\text{Nuclear Gauge Density}}$$

Calculation of Gauge Correlation Factor (GCF)

Add ten Density Ratios

$$\text{GCF} = \frac{\text{Sum of Density Ratios}}{\text{Number of cores}} = _____$$

Date of Paving	Date of Coring	Date Project Office Notified of Gauge Correlation Factor

By _____

Signature

Distribution: ☐ Region Materials Lab ☐ Project Engineer ☐ State Materials Lab