Federal Highway Administration
Federal Lands Highway Office

WORKSHEET FOR DETERMINING BULK SPECIFIC GRAVITY OF COMPACTED BITUMINOUS MIXTURES AND DEGREE OF PAVEMENT COMPACTION AASHTO T 166 AASHTO T 230

Project: _____ Source: _____ Date: _____

Submitted by: _____ Item No. _____ Lot No. _____ Quantity represented: _____

Sampled by: _____ Date: _____ Tested by: _____ Date: _____

Core No.	Station/Lane/Lift			As Received Ht.	As Received Wt.	Oven Weight 1st	Oven Weight 2nd	Dry Wt. in Air	SSD Wt.	Wt. in Water	Bulk Sp. Gr.	Comp. (%)

MAXIMUM SPECIFIC GRAVITY = _____ MAXIMUM UNIT WEIGHT = _____

$$\text{BULK SPECIFIC GRAVITY} = \frac{\text{WEIGHT IN AIR}}{\text{SSD - WEIGHT IN WATER}}$$

$$\text{DEGREE OF COMPACTION} = 100 - \left(\frac{\text{MAXIMUM SPECIFIC GRAVITY - BULK SP. GR. OF CORE}}{\text{MAXIMUM SPECIFIC GRAVITY}} \times 100\right)$$

or

$$\text{DEGREE OF COMPACTION} = \frac{\text{BULK SP. GR. OF CORE} \times 62.4\ \text{lbs/ft}^3}{\text{MAXIMUM UNIT WEIGHT}} \times 100$$

Form WFLHD 13

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