Washington State Department of Transportation

HMA Mineral Aggregates

Contract Number	Mix Class	Sample Number	Date Sampled	Date Tested
Aggregate Source	HMA Test Number	JMF Number	Sample Weight (lbs.)	Testing Site

Sand Equivalent Test (WSDOT FOP for AASHTO T 176)

$$SE\ Value = \frac{Sand\ Reading\ (100)}{Clay\ Reading}$$

Clay Reading	Sand Reading	SE Value

Specification [   ]

| | Average | |

Percentage of Fracture in Coarse Aggregate (WSDOT FOP for AASHTO T 335)

P = Perecnt Fracture   Q = Mass of Questionable Particles or borderline Particles
F = Mass of Fractured Particles   N = Mass of Nonfractured Particles

$$P = \left[\frac{[F + (Q/2)]}{F + Q + N} \right] (100)$$

F	Q	N	P

Fracture Specification   Single Face = _____   Double Face = _____

Uncompacted Void Content of Fine Aggregate (WSDOT FOP for AASHTO T 304)

$$U = \left[\frac{V - (F/G)}{V} \right] (100)$$

V = Volume of Cylindrical Measure, ml
F = Net Mass, g, of fine aggregate in measure
G = Bulk Dry Specific Gravity Fine Aggregate (G_{sb})
U = Uncompacted Voids, percent, in the material

Preparation of Test Sample

Sieve Size	Mass
# 8 - # 16	44 grams
# 16 - # 30	57 grams
# 30 - # 50	72 grams
# 50 - # 100	17 grams

Tare _ _ _ _ [   ]

V	F	G	U

Specification [   ]

| | Average | |

Contractor's Signature	Date
Inspector's Signature	Date