

**AGGREGATE TEST REPORT**

Metric / English  (M or E - Located on MATT Menu)

Project No.  Material Code  Lab No.

Date Sampled  Submitted By  Quantity

Purp Code  Source Code  Spec Code  P.O. No.

Date Tested  Ident  Plant Code  Frict.Rating  (1-4)

Item No.  Date Rec'd (lab)  Sampled By:

Remarks 1

Tested By  Date  Checked By  Date

**DOTD TR 102, 112, 113 & 309**

Unit  1 = grams 2 = pounds

mm Sieve In.	Mass (Wt) Retained	% Retained	% Coarser	% Passing
63 2 1/2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
50 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
37.5 1 1/2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
31.5 1 1/4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
25.0 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19.0 3/4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
16.0 5/8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
12.5 1/2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.5 3/8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.75 No. 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mass (Wt) Matl.in Pan	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Accum. Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Initial Dry Total Mass, (Wt)  % Diff:

**DOTD TR 428**

Unit  1 = grams 2 = pounds

mm/µm Sieve No.	Mass (Wt) Retained	% Retained	% Coarser	% Passing
2.36 8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.00 10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1.18 16	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
600 30	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
425 40	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
300 50	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
180 80	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
150 100	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
75 200	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
53 270	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mass (Wt) Matl.in Pan	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Decant Loss	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Accum. Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Initial Dry Total Mass, (Wt)  % Diff:

Dry Mass (Wt) After Wash

Liquid Limit  Plastic Limit

No. of Blows  Mass Cup + Wet Soil, g

Mass Cup + Wet Soil, g  Mass Cup + Dry Soil, g

Mass Cup + Dry Soil, g  Mass Water

Mass Water  Cup No.

Factor  Mass Cup, g

Cup No.  Mass Dry Soil

Mass Cup, g  % Moisture

Mass Dry Soil

% Moisture  Plasticity Index

Absorption, % (T84 or T85)

Spec Grav SSD (T84 or T85)

Spec Grav APP (TR 300)

Effective Spec Grav (TR 300)

Opt Moist Content, % (TR 418)

Maximum Density (TR 418) kg/m<sup>3</sup> (lb/ft<sup>3</sup>)

Lab Comp Method (TR 418)

Cement, % (TR 432 or SPECIFIED)

Lime, % (TR 416 or SPECIFIED)

Other (Additive) Code  %

Clay Lumps, % (TR 119)

Friable Particles, % (TR 119)

Clay Lumps & Friable Particles % (TR 119)

Flat or Elongated Part, % (TR 119)

Coal & Lignite, % (TR 119)

Glassy Particles, % (TR 119)

Iron Ore, % (TR 119)

Wood, % (TR 119)

Total (Clay Lumps, Fri.Part., Iron Ore, Coal & Lignite, Wood), % (TR 119)

Foreign Matter, % (TR 109)

Clam Shell, % (TR 110)

Soundness, % Loss (T 104)

Abrasion, % Loss (T 96)

Colorimetric Test (1 = Pass, 2 = Fail) (T 21)

Asphalt Content, % (TR 307)

Retained Asphalt Coating, % (TR 317)

Percent Crushed (TR 306)

Retained Marshall Stability (TR 313)

Resistivity, ohm - cm (TR 429)

pH (TR 430)

Organic Content, % (TR 413)

Sand Equivalent (TR 120)

Remarks 2:

Approved By:  Date:

**APPARENT SPECIFIC GRAVITY (DOTD TR 300)**

Date: \_\_\_\_\_

		<b>Coarse Aggregate</b>	
Mass in Air	a		
Mass in Water	b		
Difference	c	a - b	
Apparent Specific Gravity	D	a/c	
		<b>Fine Aggregate</b>	
Flask No.			
Mass of Flask & Dry Sand	a		
Mass of Flask	b		
Mass of Dry Sand	d	a - b	
Mass of Flask + Sand + Water	c		
Apparent Specific Gravity	E	d/(498.6 - c + a)	
<b>Combined Coarse and Fine Aggregates</b>			
% Passing 4.75mm (No. 4) Sieve	F		
Coarse Spec Grav Portion	G	(100 - F) D	
Fine Spec Grav Portion	H	(F) E	
Apparent Spec Grav	I	G + H	

**EFFECTIVE SPECIFIC GRAVITY (DOTD TR 300)**

Date: \_\_\_\_\_

Tested By: _____		
Mass of Aggregate	A	
Mass of Mix	B	
% Asphalt in Mix	C	$\frac{B - A}{B} \times 100$
Mass of Jar + Water	D	
Mass of Jar + Water + Mix	E	
Spec Grav of Mix	F	$\frac{B}{D + B - E}$
% Aggregate in Mix	X	100 - C
Specific Gravity of Asphalt Cement	H	
Effective Specific Grav of Aggregate	G	$\frac{X}{\frac{100}{F} - \frac{C}{H}}$

**SPECIFIC GRAVITY AND ABSORPTION OF COARSE AGGREGATE (AASHTO T85)**

Date: \_\_\_\_\_

Tested By: _____		
Mass of Oven Dry Test Sample in Air, g	A	
Mass of Saturated Surf-Dry Test Sample in Air, g	B	
Mass of Saturated Test Sample in Water, g	C	
Bulk Spec Grav (Saturated-Surf-Dry)		$\frac{B}{B - C}$
Absorption, %		$\frac{B - A}{A} \times 100$

**PERCENT FOREIGN MATTER (DOTD TR 109)**

Date: \_\_\_\_\_

Tested By: _____		
Mass of Material Removed by Hand	A	
Mass of Dried Portion	D	
Mass Total Sample	B	A + D
Mass of Portion After Wash, Dry	E	
Mass of Material Removed by Wash	C	D - E
Foreign Matter, %	F	$\frac{A + C}{B} \times 100$

**PERCENT CLAM SHELL (DOTD TR 110)**

Date: \_\_\_\_\_

Tested By: _____		
Mass Retained 4.75 mm (No. 4)	A	
Mass Clam Shell	B	
Clam Shell, %	C	$\frac{B}{A} \times 100$