



CORE DENSITY, EXTRACTION AND SIEVE ANALYSIS

CONTRACT NO. <input style="width: 90%;" type="text"/>	PROJECT NO. <input style="width: 90%;" type="text"/>	CONTRACTOR <input style="width: 90%;" type="text"/>	DATE LAID <input style="width: 90%;" type="text"/>
LOT NO. <input style="width: 90%;" type="text"/>	SEGMENT NO. <input style="width: 90%;" type="text"/>	LANE <input style="width: 90%;" type="text"/>	STATION <input style="width: 90%;" type="text"/>
			LOCATION <input style="width: 90%;" type="text"/>

SEGMENT DENSITY

A	CORE THICKNESS	mm	
B	SAWED CORE WEIGHT	g	
C	SATURATED SURFACE DRY WEIGHT	g	
D	VOLUME OF CORE	cm ³	
E	WET DENSITY	1000 B / D kg/m ³	
F	DRY WT. OF CUT ROCK CORE MIX + PAN	g	
G	WT. OF TARE PAN (NO. _____)	g	
H	DRY WT. OF UN CUT ROCK CORE MIX + PAN	g	
I	WT. OF TARE PAN (NO. _____)	g	
J	TOTAL DRY WT. OF CORE MIX	(F - G)+(H - I) g	
K	WEIGHT OF WATER	B - J g	
L	MOISTURE CONTENT	100 K / J %	
M	CORE DRY DENSITY	1000 J / D kg/m ³	
N	AIR VOIDS CONTENT	%	
O	LOT AVERAGE MARSHALL DENSITY	kg/m ³	
P	PERCENT COMPACTION	100 M / O %	

TIME CORE(S) PLACED IN OVEN	h_min	
TIME SAMPLES TAKEN OUT OF OVEN	h_min	
DRYING TIME	h_min	
TIME EXTRACTION STARTED	h_min	
TIME EXTRACTION ENDED	h_min	
EXTRACTION TIME	h_min	

SIEVE ANALYSIS DATA

WT. OF DRY AGGREGATE (AA) _____ g				
SIEVE SIZE µm	WEIGHT RETAINED g	WEIGHT PASSING g	PERCENT PASSING %	DESIGN or TARGET LIMITS(%)
25 000				
20 000				
16 000				
12 500				
10 000				
5 000				
2 500				
1250				
630				
315				
160				
80				
TARE PAN		DIFFERENCE FF - GG	% DIFF. 100 HH / FF	MAXIMUM DIFFERENCE
TOTAL WEIGHT (GG)				
DRY WASH WT (FF)		(HH)		0.5%

ADDITIONAL UN CUT ROCK CORE MIX FOR EXTRACTION

Q	DRY WT. OF UN CUT ROCK CORE MIX + PAN	g	
R	WEIGHT OF TARE PAN (NO. _____)	g	
S	DRY WT. OF UN CUT ROCK CORE MIX	Q - R g	

EXTRACTION DATA

T	TOTAL DRY WT. OF UN CUT ROCK MIX	S + H - I g	
U	EXTRACTED DRY WT. OF AGGREGATE + PAN	g	
V	WEIGHT OF TARE PAN (NO. _____)	g	
W	EXTRACTED DRY WT. OF AGGREGATE	U - V g	
X	WT. OF CENTRIFUGE DRY FINES + BEAKER	g	
Y	WEIGHT OF BEAKER (NO. _____)	g	
Z	WT. OF CENTRIFUGE DRY FINES	X - Y g	*
AA	TOTAL WT. OF DRY AGGREGATE	W + Z g	
BB	WT. OF EXTRACTED ASPHALT	T - AA g	
CC	EXTRACTION ASPHALT CONTENT	100 BB / AA %	
DD	EXTRACTION CORRECTION FACTOR	%	
EE	UN CUT ROCK CORE(S) MIX CORRECTED EXTRACTION ASPHALT CONTENT	CC + DD %	

*If more than 50 g or beaker has fines up to rim, run a check beaker and check for holes in extraction and centrifuge screens.

CALCULATIONS

DATE TESTED _____ TECHNOLOGIST(S) _____

DATA CHECKED BY: _____

REMARKS: _____