WYOMING DEPARTMENT OF TRANSPORTATION

MATERIALS TESTING LABORATORY

T-166
(Rev. 10-18)

AGGREGATE ANALYSIS

PROJECT NO(S).: ERP Project Number
ENGINEER: Resident Engineer
SAMPLE I.D.:
PIT OR QUARRY: As Listed on Plans
QUANTITY: As Per Plans
DATE RECEIVED: mm/dd/yr.

TEST NUMBER: ###
PROJECT NAME: As Listed on Plans
TOWN: Resident Engineer Town
SAMPLED BY: Field Tester
COUNTY: Any County
FOR USE AS: As per Plans
DATE TESTED: mm/dd/yr

	WEIGHT (lbs or kg) COARSE AGG.		WEIGHT (lbs or kg) FINE AGG.
Sample	13.94 = (E)		433.2 = (F)
After Wash			410
Pass No. 200 [75µm]			23.2
Pass No. 200 [75 µm], Pan			10.8
Total Pass No. 200 [75µm]			34

	Weight Retained (lbs or kg)	% Retained = (A or B / D) x 100
RETAINED No. 4 [4.75 mm] = (A)	7.00	50.3 = (H)
PASS No. 4 [4.75 mm]= (B)	6.91	49.7 = (I)
TOTAL , A + B = (D)	13.91	

SIEVE SIZE	WT RET =K	% RET = K X 100 / E =L	WT RET =P	% RET = P x 100 / F =R	% RET R x I / 100 =S	COMBINED AGGREGATE % PASSING 100 - S (Z) =Z	% PASSING to 0.1 %	% PASSING to 1 %	SPEC % PASSING
1 1/2" [37.5 mm]							100.0	100	
1" [25mm]							100.0	100	100
3/4" [19 mm]	0.40	2.9				2.9	97.1	97	90-100
1/2" [12.5 mm]	2.20	15.8				15.8	81.3	81	76-86
3/8" [9.5 mm]	2.50	17.9				17.9	63.4	63	58-68
No. 4 [4.75 mm]	1.90	13.6				13.6	49.8	50	47-57
No. 8 [2.36 mm]			100.7	23.2	11.5	11.5	38.3	38	37-45
No. 16 [1.18 mm]			98.1	22.6	11.2	11.2	27.1	27	
No. 30 [600 µm]			76.5	17.7	8.8	8.8	18.3	18	18-24
No. 40 425 [µm]									
No. 50 [300 µm]			61.3	14.2	7.1	7.1	11.2	11	
No. 100 [150 µm]			37.1	8.6	4.3	4.3	6.9	7	
No. 200 [75 µm]			24.6	5.7	2.8	2.8	4.1	4.1	2.6-6.6
Pass No. 200 [75 µm], Pan	6.91	49.6	34.0	7.8	3.9				
TOTAL PASSING	13.91	99.8	432.3	99.8					
SHAKER LOSS %	0.3%		0.2%						
FRACTURED FACES %	One or more		SHAKER LOSS FORMULA						
FLAT & ELONGATED %	1:5 Ratio		([E or F] - TOTAL PASSING) / [E or F] * 100						

WET WT (lb or kg)	14.4
DRY WT (lb or kg)	14.1
WET - DRY = MOISTURE	0.3
% MOIST.=(MOIST./ DRY WT)x100	2.1

☑ FINENESS MODULUS: see M.T.M., Sect. 816.0:

BLOWS = 28	Tin No.	Wet+Tare= AA	Dry + Tare= BB	Tare = CC	Moisture = AA - BB = DD	Dry Wt = BB - CC = EE	% MOISTURE (DD / EE) x 100	Corr. Factor	LL*Corr. Factor	PLASTIC INDEX (PI) =LL - PL
LIQUID LIMIT (LL)		96.2	83.6	29.8	12.6	53.8	23.4	1.014	24.0	3.0
PLASTIC LIMIT (PL)		91.8	80.8	27.6	11.0	53.2	21.0			

REMARKS

TESTED BY Field Tester
CERTIFICATION NO. ####

If value greater than 10, round to whole number.