

MUNICIPAL TESTING LABORATORY, INC.

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A FULL SERVICE LABORATORY AND ENGINEERING CONSULTANT; STEEL, CONCRETE, SOILS, ASPHALT & ALL BUILDING MATERIALS

LABORATORY REPORT

CLIENT: LIRO

DATE-PLACED: 05/20/02

PROJECT: W.T.C. Paving

DATE-CORED: 05/28/02

CALCULATIONS BY: M.Mathew

TESTED: 05/30/02

REPORT No. 9350

SPEC: NYCDDC

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BULK SPECIFIC GRAVITY OF COMPACTED MIXTURE

Thick- ness(mm)	CORE NO.	WEIGHT - GRAMS			VOLUME CU.CM. (E1-E)=F	SPECIFIC GRAVITY Gmb D/F=G
		IN AIR	IN WATER	SAT-SUR. DRY		
		D	E	E1		
38	FR1	685.0	411.6	687.1	275.5	2.486
42	FR2	778.7	465.7	780.5	314.8	2.474
36	FR3	653.3	388.0	655.7	267.7	2.440
35	FR4	589.0	345.2	593.7	248.5	2.370
50	FR5	903.1	544	904.2	360.2	2.507
47	FR6	847.7	498.1	853.5	355.4	2.385
55	FR7	1068.8	641.6	1070.7	429.1	2.491
67	FR8	1229.1	720.5	1237.6	517.1	2.377

PAVEMENT DENSITY CALCULATIONS

CORE NO.	CORE BULK SPEC. GRAVITY ASTM D-2726 Gmb	SPECIFIC GRAVITY DESIGN MIX VALUE (PLANT SUPPLIED) Gmm	PERCENT COMPACTION (Gmb/Gmm) x100
FR1	2.486	2.630	94.5
FR2	2.474	2.630	94.1
FR3	2.440	2.630	92.8
FR4	2.370	2.630	90.1
FR5	2.507	2.630	95.3
FR6	2.385	2.630	90.7
FR7	2.491	2.630	94.7
FR8	2.377	2.630	90.4

PERCENT ASPHALT CONTENT - 5.2%(Taken from Core No.FR6)

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BULK SPECIFIC GRAVITY OF COMPACTED MIXTURE

Thick- ness(mm)	CORE NO.	WEIGHT - GRAMS			VOLUME CU.CM. (E1-E)=F	SPECIFIC GRAVITY Gmb D/F=G
		IN	IN	SAT-SUR.		
		AIR	WATER	DRY		
		D	E	E1		
35	FR9	652.9	380.6	659.3	278.7	2.343
60	FL1	1046.1	629.2	1047.9	418.7	2.498
51	FL2	844.0	507.4	846.7	339.3	2.487
52	FL3	855.2	508.7	856.9	348.2	2.456
48	FL4	843.7	512.3	844.4	332.1	2.540
60	FL5	1102.6	664.4	1104.4	440	2.506
55	FL6	967.6	582.6	969.6	387	2.500
					0	NA

PAVEMENT DENSITY CALCULATIONS

CORE NO.	CORE BULK SPEC. GRAVITY ASTM D-2726 Gmb	SPECIFIC GRAVITY DESIGN MIX VALUE (PLANT SUPPLIED) Gmm	PERCENT COMPACTION (Gmb/Gmm) x100
FR9	2.343	2.630	89.1
FL1	2.498	2.630	95.0
FL2	2.487	2.630	94.6
FL3	2.456	2.630	93.4
FL4	2.540	2.630	96.6
FL5	2.506	2.630	95.3
FL6	2.500	2.630	95.1
0	NA	2.630	NA