

WMA TRIALS - COEDMORE

MUCH ASPHALT (PTY) LTD					YEAR: 2009			
FINAL PRODUCT QUALITY CONTROL REPORT SHEET					BRANCH: Coedmore			
MIX TYPE: Type D - 13.2mm Wearing Course with 40/50 + 10% RA (HMA) + 1.5% Sasobit					Contract : WMA Trials (Plant trials)			
SAMPLE NUMBER		Target	P2526	P2527	P2528			
DATE SAMPLED			14-May-09	14-May-09	14-May-09			
DATE TESTED			14-May-09	14-May-09	14-May-09			
Details			Plant Trial (5.0%)	Plant Trial (5.0%)	Plant Trial (5.0%)			
Temp		135	140	142				
GRADATION TEST		% PASS	% PASS	% PASS	% PASS	Basic Statistics		
SIEVE SIZES						Upper	Lower	Ave
	37.5	100	100	100	100	100	100	100
	26.5	100	100	100	100	100	100	100
	19.0	100	100	100	100	100	100	100
	13.2	99	96	96	98	100	94	97
	9.5	86	76	82	84	91	81	81
	6.7	76	69	77	77	81	71	74
	4.75	63	58	66	66	67	59	63
	2.36	41	40	45	43	45	37	43
	1.18	28	29	32	30	31	24	30
	0.600	19	21	21	21	23	15	21
	0.300	13	15	15	14	16	10	15
	0.150	10	10	11	10	12	8	10
	0.075	7.2	6.9	8.1	7.1	9.2	5.2	7.37
Compaction Temperature (°C)			140	140	140			140
Moisture Content (%) - Oven dried			0.1	0.1	0.1			0.1
BINDER CONTENT (%)		5.0	5.1	4.9	5.1			5.03
MARSHALL DENSITY (g/ml)			2.388	2.370	2.378			2.379
MAX THEORETICAL DENSITY (g/ml)			2.488	2.488	2.483			2.486
VOIDS IN MIX (%)		5.2	4.0%	4.7%	4.2%			4.33%
Voids-In-Mineral Aggregate (%)			14.1%	14.6%	14.5%			14.4%
MARSHALL STABILITY (kN)			13.9	13.8	13.4			13.7
MARSHALL FLOW (mm)			3.1	3.0	3.0			3.0
Indirect Tensile Strength (kPa)			1301	1201	1260			1254
Gyratory voids (%)								
Film Thickness (µm)		7 min	7.8	6.8	7.7			7.42
Stability/Flow Ratio			4.5	4.6	4.5			4.5
Filler/Bitumen Ratio			1.4	1.7	1.4			1.5
Voids Filled With Bitumen (%)			71.5%	67.4%	70.7%			70%

