

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 + 1.5% Sasobit					Contract : WMA Trials (Plant trials)			
SAMPLE NUMBER		Target	P2487	P2488	P2489			
DATE SAMPLED			06-May-09	06-May-09	06-May-09			
DATE TESTED			06-May-09	06-May-09	06-May-09			
Details			Plant Trial (5.0%)	Plant Trial (5.0%)	Plant Trial (5.0%)			
Temp		130	132	130				
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	98	99	99	100	94	99
	9.5	86	86	80	84	91	81	83
	6.7	76	80	73	77	81	71	77
	4.75	63	69	62	65	67	59	65
	2.36	41	46	41	44	45	37	44
	1.18	28	32	29	30	31	24	30
	0.600	19	22	20	20	23	15	21
	0.300	13	15	14	13	16	10	14
	0.150	10	10	10	9	12	8	10
	0.075	7.2	7.6	6.9	6.1	9.2	5.2	6.87
Compaction Temperature (°C)			125	125	125			
Moisture Content (%) - Oven dried			0.1	0.1	0.1			
BINDER CONTENT (%)		5.0	5.2	4.7	4.8	4.90		
MARSHALL DENSITY (g/ml)			2.350	2.349	2.317	2.339		
MAX THEORETICAL DENSITY (g/ml)			2.478	2.490	2.479	2.482		
VOIDS IN MIX (%)		5.2	5.2%	5.7%	6.5%	5.79%		
Voids-In-Mineral Aggregate (%)			15.5%	15.1%	16.4%	15.7%		
MARSHALL STABILITY (kN)			13.1	13.5	13.2	13.3		
MARSHALL FLOW (mm)			3.0	3.0	3.0	3.0		
Indirect Tensile Strength (kPa)			1152	1290	1250	1231		
Gyratory voids (%)								
Film Thickness (µm)		7 min	7.5	7.2	7.9	7.52		
Stability/Flow Ratio			4.4	4.5	4.4	4.4		
Filler/Bitumen Ratio			1.5	1.5	1.3	1.4		
Voids Filled With Bitumen (%)			66.8%	62.6%	60.1%	63%		

