

Doc ID:

FH-DP1-PM-ITP004C

**Rev:** 01

Principal's: Melbourne Airport (APAM)

Contract No: CP1002

Prepared By: Michael Natalizio

Project: MAPMP 2.0: DP1 – Minor Asphalt WorksReviewed By: Noriko WoodDate: 29/08/2023

Construction Process: Hot Mix Asphalt Production – SP1 Patching Mix

Approved By: Joseph Stella

Date: 29/08/2023

**Specifications:** 60692389-PS-01-AV-0001 - Revision 1 (27 Mar 2023)

**Structure / Component:** Asphalt Pavement

Lot No: Lot Details: Lot size/Quantity: Date:

Item	Task/Activity		Inspection	on/Test			HP/	Responsibility		Checked by:	
No.	Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	WP/ AP/IP/ TP/ SCP	Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
1.0	Preliminary Activit	ies									
1.1	Submission of Production Plan	Prior to commencing works	The production plan must demonstrate that the production capacity and the hot storage capacity of the mixing plant is sufficient to supply asphalt to complete the work undertaken within any work period on time.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.1	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
1.2	Checking of Weighting Devices and Certificates	Prior to commencing works	The Contractor must supply details of current certification of weighing equipment including belt weighers and weighbridges to the Contract Administrator.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.6	Verify	Aconex Correspondence	WP	FH Project Engineer / Contract Administrator / Principal's Design Consultant	WP release GCOR-0014	d as per DCW 144	'C Mgt-
1.3	Calibration of the mixing plant	Prior to commencing works	Calibrating all necessary devices and parameters at the mixing plant to achieve the "Job Mix".  Established plants must provide historical records of the asphalt production over the previous one (1) month to verify consistency.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.11	Verify	Historical records of asphalt production This ITP signed	WP	FH Project Engineer / Contract Administrator / Principal's Design Consultant	WP release GCOR-0014	d as per DCW 144	'C Mgt-



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1.4	Aggregate Reference Samples	Prior to commencing works	The Reference Samples must be divided into two representative portions, with one being held by the Contractor and the second portion by the Principal's Design Consultant until completion of the Works.  Minimum quantities for each aggregate fraction:  14mm: 50kg 10mm: 40kg 7mm: 30kg Dust: 20kg Sand: 20kg	AECOM – MAPMP 2.0 DP1 Spec. CI 14.16.2, Table 14-17	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
1.5	Submission and review of mix design	Prior to commencing works	Submission and review of a mix design report detailing the mix which meets the requirements of the specification.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.11.4	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant	HP released	d as per DCW 429	C Mgt-
1.6	Production Trial	Prior to commencing construction trial	Successful trial of asphalt production with the mixing plant where the asphalt produced shows that the mix complies to the specification requirements.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.12.1	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant	HP released	d as per DCW 429	C Mgt-



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1.7	Construction Trial	Prior to commencing works	The Contractor must subject all the placing, compaction and finishing equipment and operating and supervisory personnel proposed for use on the Works to a trial using the construction procedures proposed for the Work.	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.12.3	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant	HP released GCOR-0014	l as per DCW( 129	C Mgt-
1.8	Production and Construction Trial Report	Prior to commencing works	The Contractor must provide the Contract Administrator with a Production and Construction Trial Report detailing the results of both production and construction trials as well as all compliance testing.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.12.5	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant	HP released GCOR-0014	l as per DCW 129	C Mgt-
1.9	Nomination of Job Mix	Prior to commencing works	The Contractor must issue an updated asphalt mix design report with the details of the Job Mixture within 3 working days after completion of the construction trial.	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.11.6	Verify	Aconex Correspondence	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant	HP released GCOR-0014	l as per DCW( 129	C Mgt-
2.0	Coarse Aggregate	s Material Prope	rties - Initial Testing								
2.1	Particle Density	Initial	Not less than 2300 kg/m <sup>3</sup>	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.6.1	NATA- accredited test certificate	TP	Laboratory Technician			



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No.	Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	WP/ AP/IP/ TP/ SCP	Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
2.2	Water Absorption	Initial	Not more than 2.0%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.6.1	NATA- accredited test certificate	TP	Laboratory Technician			
2.3	Material Finer than 0.075mm in Aggregates (by washing)	Initial	Not more than 2.0%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS1141.11.1	NATA- accredited test certificate	TP	Laboratory Technician			
2.4	Particle Shape by Proportional Calliper (using a 3:1 ratio)	Initial	Not more than 5.0% of misshapen particles	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS1141.14	NATA- accredited test certificate	TP	Laboratory Technician			
2.5	Flakiness Index (nominal 10 mm and larger aggregate)	Initial	Maximum 25%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.15	NATA- accredited test certificate	TP	Laboratory Technician			
2.6	Los Angeles Abrasion	Initial	Not more than 25% loss (B or K Test Grading)	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.23	NATA- accredited test certificate	TP	Laboratory Technician			



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No.	Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	WP/ AP/IP/ TP/ SCP	Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
2.7	Soundness (using Sodium Sulphate)	Initial	Not more than 3% weighted loss	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.24	NATA- accredited test certificate	TP	Laboratory Technician			
2.8	Wet Strength	Initial	Not less than 180kN	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.22	NATA- accredited test certificate	TP	Laboratory Technician			
2.9	Wet / Dry Strength Variation	Initial	Not more than 25%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.22	NATA- accredited test certificate	TP	Laboratory Technician			
2.10	Secondary Mineral Content	Initial	Not more than 20% (Basic rock types only)	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.26	NATA- accredited test certificate	TP	Laboratory Technician			
2.11	Friable particles	Initial	Not more than 0.2%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.32	NATA- accredited test certificate	TP	Laboratory Technician			



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2.12	Polished Aggregate Friction Value	Initial	Not less than 48	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.2, Table 14-1	AS 1141.41	VicRoads Assigned Value	TP	Laboratory Technician			
3.0	Coarse Aggregates	s Material Prope	rties - Ongoing Production Testing								
3.1	Particle Size Distribution	1 per 500 tonnes aggregate	To be reported	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	AS1141.11.1	NATA- accredited test certificate	TP	Laboratory Technician			
3.2	Apparent Particle Density	1 per 2000 tonnes aggregate	Not less than 2300 kg/m <sup>3</sup>	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	AS 1141.6.1	NATA- accredited test certificate	TP	Laboratory Technician			
3.3	Flakiness Index (nominal 10 mm and larger aggregate)	1 per 1000 tonnes aggregate	Maximum 25%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	AS 1141.15	NATA- accredited test certificate	TP	Laboratory Technician			
3.4	Wet Strength	1 per 2500 tonnes aggregate	Not less than 180kN	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	AS 1141.22	NATA- accredited test certificate	TP	Laboratory Technician			



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3.5	Weak/Friable particles	1 per 1000 tonnes aggregate	Not more than 0.2%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	AS 1141.32	NATA- accredited test certificate	TP	Laboratory Technician			
3.6	Unsound Stone Content by Visual Assessment	1 per 5000 tonnes aggregate	To be reported	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.1 Table 14-18	RC 372.01	NATA- accredited test certificate	TP	Laboratory Technician			
4.0	Fine Aggregates M	laterial Propertie	s – Initial Testing								
4.1	Particle Density	Initial	Not less than 2300kg/m <sup>3</sup>	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.5	NATA- accredited test certificate	TP	Laboratory Technician			
4.2	Water Absorption	Initial	Not more than 2.5% (crushed aggregate)  Not more than 2.0% (uncrushed aggregate)	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.5	NATA- accredited test certificate	TP	Laboratory Technician			
4.3	Soundness (using Sodium Sulphate)	Initial	Not more than 3% for any fraction	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.24	NATA- accredited test certificate	TP	Laboratory Technician			



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4.4	Degradation Factor (Note: only applicable to dust)	Initial	Not less than 60	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.25.3	NATA- accredited test certificate	TP	Laboratory Technician			
4.5	Plasticity Index	Initial	Non-Plastic	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1289.3.3.1 (wet preparation)	NATA- accredited test certificate	TP	Laboratory Technician			
4.6	Linear Shrinkage	Initial	Not more than 1%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1289.3.4.1 (wet preparation)	NATA- accredited test certificate	TP	Laboratory Technician			
4.7	Methylene Blue Value (Crushed aggregate only)	Initial	Not more than 5mg/gram	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.66	NATA- accredited test certificate	TP	Laboratory Technician			
4.8	Sand Equivalent (natural sands)	Initial	Not less than 45	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1289.3.7.1	NATA- accredited test certificate	TP	Laboratory Technician			



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4.9	Material Finer than 0.075mm in Aggregates	Initial	Not more than 20%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-2	AS 1141.11.1	NATA- accredited test certificate	TP	Laboratory Technician			
5.0	Fine Aggregates M	laterial Propertie	s - Ongoing Production Testing								
5.1	Particle Size Distribution	1 per 500 tonnes aggregate	To be reported	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-19	AS1141.11.1	NATA- accredited test certificate	TP	Laboratory Technician			
5.2	Plasticity Index	1 per 1000 tonnes aggregate	Non-Plastic	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-19	AS 1289.3.3.1 (wet preparation)	NATA- accredited test certificate	TP	Laboratory Technician			
5.3	Linear Shrinkage	1 per 1000 tonnes aggregate	Not more than 1%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-19	AS 1289.3.4.1 (wet preparation)	NATA- accredited test certificate	TP	Laboratory Technician			
5.4	Methylene Blue Value (Crushed aggregate only)	1 per 2000 tonnes aggregate	Not more than 5mg/gram	AECOM – MAPMP 2.0 DP1 Spec. CI 14.5.3, Table 14-19	AS 1141.66	NATA- accredited test certificate	TP	Laboratory Technician			



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6.0	Binder Testing – Je	etbind E (PMB)									
6.1	Bituminous Binder Sampling and Submission	Every delivery of bitumen to the mixing plant	All samples of bitumen must be obtained in accordance with Appendix B of AS 2008.  The samples shall consist of two (2) 0.5 litre (minimum) sealed containers labelled appropriately identifying the relevant lot and traceability to the source.  These samples to be submitted to the Contract Administrator / Principal's Design Consultant.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.5	AS 2008 Appendix B Verify	This ITP signed / Aconex Correspondence	НР	Laboratory Technician / FH Project Engineer / Contract Administrator / Principal's Design Consultant			
6.2	Viscosity at 165°C	1 test per manufactured batch of binder (minimum 1 test per 250T of bitumen used)	To be reported	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.17.7	AG:PT/T111	NATA- accredited test certificate	TP	Laboratory Technician			



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6.3	Torsional recovery at 25°C, 30 s	1 test per manufactured batch of binder (minimum 1 test per 250T of bitumen used)	To be reported	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.7	AG:PT/T122	NATA- accredited test certificate	TP	Laboratory Technician			
6.4	Softening point	1 test per manufactured batch of binder	To be reported	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.7	AG:PT/T131	NATA- accredited test certificate	TP	Laboratory Technician			
6.5	Submission of binder test results	1 test per manufactured batch of binder	Completion of the specified set of tests on the binder and submission of the test results to the Contract Administrator / Principal's Design Consultant.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.7	Verify	NATA- accredited test certificate	НР	FH Project Engineer / Contract Administrator / Principal's Design Consultant			
7.0	Asphalt Production	n Testing									



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7.1	Sampling	Up to 100T: 1 test per work period / shift; 100T to 200T: 2 tests per work period / shift; Above 200T: 3 tests per work period / shift. Note: AECOM can request additional testing if any concerns are raised with the asphalt material during the works.	Mix to be sampled from asphalt delivery trucks.	AECOM – MAPMP 2.0 DP1 Spec. CI 14.17.11, Table 14-21 Frequency amended as per DCWC Mgt-RTRFI- 000069	AS 2891.1.1	NATA- accredited test certificate	TP	Laboratory Technician			
7.2	Asphalt mix temperature	Once per sample obtained as per Item 7.1 of this document	The temperature of the mix immediately following discharge from the mixer shall be within 10°C of that nominated by the Contractor but shall not be greater than 175°C (for polymer modified bitumen).	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.1	Verify	NATA- accredited test certificate	TP	Laboratory Technician			



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7.3	Moisture content	Once per sample obtained as per Item 7.1 of this document	To so reported		FH Internal	RC 211.01	NATA- accredited test certificate	TP	Laboratory Technician				
	Combined	Once per sample obtained as per Item 7.1 of this	Grading to envelope g		n the "job mix"	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-14  Job Mix Formula as							
			Sieve Size (mm)	Job Mix	Job Mix Envelope								
			13.2	100	94 - 100		AS 2891.3.3 accre			Laboratory Technician			
			9.5	85	79 - 91								
7.4	aggregate grading		6.7	72	66 - 78				TP				
			4.75	59	54 - 64			certificate					
		document	2.36	45	40 - 50	submitted in							
			1.18	35	31 - 39	FHPL-							
			0.600	26 17	23 - 29 15 - 19	GCOR-							
			0.300	10.3	8.3 - 12.3	000464							
			0.150	5.5	4.0 - 7.0								
7.5	Average Added Filler Content	At the end of each production shift	Average added filler content to be within ± 0.2% of the "job mix" target.		AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-14	Verify	Batch Records	ТР	Laboratory Technician				



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7.6	Bitumen content	Once per sample obtained as per Item 7.1 of this document	Within ± 0.3% of the "job mix" bitumen content by mass.  From JMF: Within 5.2% - 5.8%	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-14 Job Mix Formula as submitted in FHPL- GCOR- 000464	AS 2891.3.3	NATA- accredited test certificate	TP	Laboratory Technician			
7.7	Average bitumen content	At the end of each production shift	The Contractor shall determine the average bitumen content of each size of asphalt produced during each continuous mixing period or shift based on the total quantity of bitumen used and total asphalt produced.  Average bitumen content must be not less than the bitumen content of the "job mix" (Job Mix Bitumen Content is 5.5%).	AECOM – MAPMP 2.0 DP1 Spec. CI 14.13.15.7, 14.14.8, Table 14-14 Job Mix Formula as submitted in FHPL- GCOR- 000464	Verify	Batch Records	ΤP	Laboratory Technician / FH Project Engineer			



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Construction Process: Hot Mix Asphalt Production – SP1 Patching MixApproved By: Joseph StellaDate: 29/08/2023

**Specifications:** 60692389-PS-01-AV-0001 - Revision 1 (27 Mar 2023)

Item	Task/Activity Description		Inspection/Test						Checked by:		
No.		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	HP/ WP/ AP/IP/ TP/ SCP	Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
7.8	Maximum density	Once per sample obtained as per Item 7.1 of this document	To be reported	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.17.11	AS 2891.7.1	NATA- accredited test certificate	TP	Laboratory Technician			
7.9	Bulk density	Once per sample obtained as per Item 7.1 of this document	To be reported	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.17.11	AS 2891.7.1	NATA- accredited test certificate	TP	Laboratory Technician			
7.10	Voids in mineral aggregate (VMA)	Once per sample obtained as per Item 6.1 of this document	15% minimum	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-13	AS 2891.8	NATA- accredited test certificate	TP	Laboratory Technician			
7.11	Voids filled with bitumen (VFB)	Once per sample obtained as per Item 6.1 of this document	70% minimum to 80% maximum	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-13	AS 2891.8	NATA- accredited test certificate	TP	Laboratory Technician			



Doc ID:

FH-DP1-PM-ITP004C

**Rev:** 01

Principal's: Melbourne Airport (APAM)

Contract No: CP1002

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Construction Process: Hot Mix Asphalt Production – SP1 Patching Mix

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Item	Task/Activity Description	Inspection/Test						Responsibility	Checked by:		
No.		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	HP/ WP/ AP/IP/ TP/ SCP	Project Engineer Superintendent Surveyor Foreman	AECOM	FH	Date
7.12	Marshall Air Voids	Once per sample obtained as per Item 6.1 of this document	2.5% minimum to 4.5% maximum	AECOM – MAPMP 2.0 DP1 Spec. Cl 14.14.8, Table 14-13 Job Mix Formula as submitted in FHPL- GCOR- 000464	AS 2891.8	NATA- accredited test certificate	TP	Laboratory Technician			
7.13	Marshall stability	Once per sample obtained as per Item 6.1 of this document	10kN minimum	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-13	AS 2891.8	NATA- accredited test certificate	TP	Laboratory Technician			
7.14	Marshall flow	Once per sample obtained as per Item 6.1 of this document	Report only	AECOM – MAPMP 2.0 DP1 Spec. CI 14.14.8, Table 14-13	AS 2891.8	NATA- accredited test certificate	TP	Laboratory Technician			



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**Structure / Component:** Asphalt Pavement

#### **Final Inspection**

The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality \System Procedures and verifies lot compliance with specifications.

Print Name: Position: Signature: Date: / /

#### Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	IP	Inspection point	Formal Inspection to be done and recorded
HP*	Fulton Hogan Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	TP	Test Point	Product compliance test to be undertaken and recorded/reported
WP	Witness Point	An inspection which must be witnessed by the Superintendent	SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			

Notes			