



REVISION of TMH1

Report Back to RPF

Dave Wright Nov 2008

SANRAL – PILOT PHASE

In final format with SABS

- SABS to PUBLISH Nov 2008

- GR1 Wet grading A1 & A5**
- GR10 Atterbergs A2, A3 & A4**
- GR11 2 point LL A2**
- GR12 Multi LL A2**
- GR20 Moisture Content New**
- PR1 Uncertainty New**

PILOT STAGE continued

SABS to PUBLISH Feb 2009 ?

- **GR2** Dry grading **New**
- **AG1** Aggregate grading **B4**
- **AG2** ALD measure **B18a**
- **AG3** ALD compute **B18b**
- **AG4** Flakiness index **B3**
- **PR5** GM, FM, CSR **New**
- **PR10** Handling sieves **New**

PILOT STAGE continued

- **SABS to PUBLISH April 2009 ?**

- **GR30** **MDD & OMC** **A7**
- **GR40** **CBR** **A8**

NUMBER of METHODS

PILOT STAGE 15

SANRAL – PHASE 2

Stabilization

- **GR31** Lab mixed MDD 85% FD
- **GR50** Lab mixed: sample, prep, compact & cure 85% FD
- **GR51** Field mixed: sample, prep, compact & cure 85% FD
- **GR52** Core: sample & prep 85% FD
- **GR53** UCS A14 80% FD
- **GR54** ITS A16 80% FD
- **ICL** 45% 1stD
- **Wet/dry brushing** A19 45% 1stD

SANRAL – PHASE 2 continued

Proficiency – Linking with PR1 Uncertainty of measurement

- **PR2** Check / duplicate testing 60% 1stD
- **PR3** Proficiency testing 15% 1stD
(round robin)
- **PR4** Repeatability testing 0%

Concrete

- **CO1** Mix, sample, cast **D1** 80% FD
- **CO2** Slump **D2** 80% FD
- **CO10** Dimensions 80% FD
- **CO11** Compressive strength **D1** 80% FD

SANRAL PHASE 2 – 15 methods

- **WCPA – PHASE 2**

NUCLEAR GAUGE

CALIBRATION RESEARCH

95% Complete

- **NG1** Handling, maintenance and safety
65% 1stD
- **NG2** Validation of calibration blocks
65% 1stD
- **NG3** Calibration of nuclear gauge
65% 1stD
- **NG4** Validation of nuclear gauge
50% 1stD
- **NG5** Nuclear gauge density testing
5% 1stD

SABITA – PHASE 2

ASPHALT

- **AS1** Compact Marshall specimens **C2 annex**
With SABITA 1stD
- **AS2** Marshall flow & stability **C2**
With SABITA 1stD
- **AS10** BRD and void content **C3**
With SABITA 1stD
- **AS11** Rice's and bitumen absorbed **C4**
With SABITA 1stD
- **AS20** Binder content (indirect) **C7b**
With SABITA 1stD

SABITA – PHASE 2 continued

BITUMEN DISTRIBUTOR

- **BT20** Calibrate dipstick 65% 1stD
- **BT21** Power and road speed 65% 1stD
- **BT22** Pump system performance 65% 1stD
- **BT23** Transverse distribution (Bucket test)
65% 1stD

SURFACING

- **Ball Pen** 60% 1stD
- **Sand Patch** 60% 1stD

ASPASA – PHASE 2

Aggregates

- **AG10** ACV **B1** 75% 2ndD
- **AG11** 10% FACT **B2** 75% 2ndD
- **AG20** ARD/BRD Coarse **B14** 65% 2ndD
- **AG21** ARD/BRD Fine **B15** 65% 2ndD

FUNDING

Budget

• SANRAL	Pilot	R300 000
	Phase 2	R700 000
• FREETRANS		R50 000
	Sub Total	R1 050 000
• WCPA		R250 000
• SABITA		R263 000
• ASPASA		R43 000

SANRAL	Methods		% Complete	
Pilot Stage	15		95	
Phase 2	15		60	
SABITA	11		35	
WCPA	5		65	
ASPASA	4		65	
TOTAL	50		70	

IN SUMMARY

We are making progress – slowly!

THANKS

To all who are responding

The team

– especially the late Wim Westra

APOLOGIES

to the SPONSORS