

2014-2015 NACOE Research Program

NACoE Project Title
Number

Pavements

P2	Stabilisation Practices in Queensland
P30	Scoping of the potential use of bagasse ash and fibres in pavement construction in Queensland
P10	Characterisation of Asphalt Fatigue at Queensland Pavement Temperatures
P9	Cost effective design of thick asphalt pavements: High Modulus Asphalt Implementation
P31	Selection of appropriate technology for use of recycled tyres in asphalt pavements and in sprayed seals
P3	Commissioning of NACoE support tools such as the Hamburg Wheel Tracker
P4	Structural Performance of unbound granular material modified C grading
P11	Review unbound pavement materials using wet / dry strength variation testing limits
P34	Development of performance based evaluation protocol for non-standard and marginal granular materials
P15	Monitor high strength granular base and seal trial (Trackstar Alliance Project)
P5	Review TMR's construction specifications (against best practice) to deliver desired surfacing performance
P36	Initial seals in Queensland
P8	Performance of TNRP flood repairs
P12	Field validation of 3D Noise Modulated Ground Penetration Radar
P43	Long term pavement performance
P39	Long life pavement alternatives for Queensland
P40	Benefits of traffic speed deflectometer data in pavement analysis
P41	Provision of instrumentation of real-time condition and performance monitoring of in-service pavements

Asset Management

A3	Improved asset management practice through enhanced pavement treatment selection and modeling
A4	Accounting for life cycle costing implications and network performance risks of rain and flood events
A5	Incorporating uncertainty in PMS Modelling
A8	Calibration of TSD data
A20	Scanning and scoping technologies that evaluate the remaining service life of sprayed seals using advanced bitumen testing technologies

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Structures

S1	Measurement of Bridge Vehicle Interaction under live load
S2	Structural health monitoring of existing bridges
S3	Deck unit bridge deck analysis under live load
S6	Review of Bridge Asset Management System

Other

R9	Investigate road user and operational benefits to TMR by improved lane use management
R20	Heavy vehicle interception site guideline and audit
R22	Measuring the cost of congestion on multi-modal basis (on road)
R7	Monitoring and evaluation of safety treatment performance on the Bruce Highway
R28	Network wide review of head-on and run-off road crashes in Queensland
R34	Review of in-service test for road friendly suspensions
O2	Maintain a long term trial research database