

2021-2022 NACOE Research Program

Project Number	Project Title	PAVEMENTS
P34	Development of Performance Based Evaluation Protocol for Non-Standard Granular Pavement Materials_Y3	
P43	Long Term Pavement Performance Project_Y8	
P59	Best Practice Non-Destructive Testing in Assurance of Asphalt_Y4	
P77	Investigate the use of APT Devices to Improve the Link between Laboratory Testing and Field Performance_Y2	
P105	Intelligent Compaction - Assessment of the Benefits and Limitations for QA in Road Construction_Y4	
P107	Innovative Methods of Slaking Quicklime_Y2	
P110	Development of TMR Geotechnical Database for Expansive Soils Qld_Y3	
P111	Improved Crumb Rubber Modified Binder Sprayed Sealing Practices_Y3	
P118	Preliminary Assessment of the Use of Spinifex Fibres in Open Graded Asphalt_Y2	
P119	Preliminary Assessment of the Use of Spinifex Fibres in Foamed Bitumen Stabilised Materials_Y2	
P121	Evaluation of the Performance Benefits of Geosynthetic Reinforcement in Asphalt Layers_Y2	
P122	Improved Characterisation of Lightly Bound Materials_Y2	
P125	Slopes - Rainfall Threshold Criteria Assessment_Y2	
P126	Assessment of current DTMR Practice of Driven Pile Verification Using High Strain Dynamic Testing (HSDT)_Y2	
P127	Harmonisation of Asphalt Compaction Standards_Y2	
P129	Monitoring the Performance of Concrete Pavements Fracturing for the M1 Upgrade Varsity Lake to Tugun (VL2T)_Y2	
P130	Investigate Surface Water Frothing on Asphalt Surfaced Roads – Stage 1_Y1	
P131	Sustainable Sprayed Sealing Practices_Y1	
P132	Queensland's Foamed Bitumen Mix Design and Structural Design Procedure: Review and Improved Methods_Y1	
P133	Performance Relationships & Specifications for Asphalt Pavement Design in QLD_Y1	
P134	Investigation of Warm Mix Asphalt Compaction Temperature_Y1	
P135	Optimisation of Quarried / Recycled Pavement Material Blends_Y1	
P136	Three-Dimensional Analysis of Pile Supported Embankments with Load Transfer Platforms_Y1	
P137	Stability of Bridge Abutments – on the Influence of Pore Pressures on Scouring of Supporting Slopes_Y1	
P138	Adopting AS test methods for Particle Distribution and Liquid Limits_Y1	
P139	Slopes – Development of Wireless Sensor Network to Predict and Prevent Rainfall-induced Landslides_Y1	
P140	Investigate Premature Failure of Raised Reflective Pavement Markers (RRPM) and Improvement Options_Y1	
P141	Development of a Soft Soils Database_Y1	
P142	Implementation Support_Y1	

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Project Number	Project Title	ASSET MANAGEMENT
A27	Harmonisation of Pavement Impact Assessment: Updated and Extended Marginal Cost Values_Y1	
A43	Value for Money Asset Management Maintenance and Rehabilitation Design Guidelines (RoadTek)_Y1	
A44	Synthesis and Dissemination of Best Practice, Value for Money Asset Preservation Solutions and Management Strategies for Sealed Roads_Y2	
A54	Asphalt Service Life Model_Y1	
A56	Pavement Drainage Performance_Y1	
Project Number	Project Title	STRUCTURES
S53	Asset Owners Assessment of FRP Strengthening Techniques (Durability and Benchmarking of FRP Strengthening Techniques)_Y3	
S54	Use of Cathodic Protection to Increase the Remaining Life of Steel Culverts_Y3	
S57	More Flood Resilient Bridge Approaches_Y3	
S59	Feasibility of Detecting Load Capacity Deterioration in Bridge Deck Units Due to ASR Using Structural Monitoring_Y2	
S60	Heavy Vehicle Compliance Review of Best Practices in Australia and Internationally as well as Technical Due Diligence on FiBridge Technology_Y2	
S61	Optimisation of Accelerated Curing Processes for Prestressed Precast Concrete and the Associated Material Performance Issues_Y1	
S62	Management of Structures with Concrete Halving Joint - Scale Model Testing Project_Y1	
Project Number	Project Title	NETWORK OPERATIONS
R100	TMR Traffic Data Access Portal_Y3	
R102	Automated Matching of HERE Map Links to TMR Network_Y3	
R112	Element 57 ITS Strategic Definition_Y1	
R113	Literature Research into Energy Reduction Opportunities for Road Operations Infrastructure_Y1	

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Project Number	Project Title	ROAD SAFETY
R105	Identify Countermeasures to Reduce the Likelihood of Incidents Involving Members of the Public at Mobile Line Marking Operations on Two-Lane, Two-Way Undivided Roads_Y3	
R106	Identify Countermeasures to Reduce the Likelihood of Safety Incidents Involving Members of the Public at Short-Term Roadwork Sites_Y3	
R119	Development of NACOE Safety Stream Strategic Program_Y1	
R120	Dissemination Plan - QLD and Nationally_Y1	
R121	Evaluation of Traffic Control Measures and Technologies at Roadwork Sites_Y1	
R122	Video Analytics: A Post-Treatment Study of the Intersection of Gold Coast Highway and Hope Island Road_Y1	
Project Number	Project Title	HEAVY VEHICLE & FREIGHT
R111	Future Directions with Queensland's Agricultural Commodity Schemes_Y1	
Project Number	Project Title	SUSTAINABILITY
P117	Incorporating Sustainability Assessment into TMR_Y3	
O21	Dispersive Soil Management_Y2	
O24	Recycle Materials in Stabilisation_Y1	
O25	Use of Recycled Materials in Earthworks and Drainage_Y2	
O26	Incorporating Bushfire Impacts into Road Design_Y1	