

# Curriculum Vitae **Phil Hunt**



**NAME:** Phil HUNT  
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## Overview

Phil's baseline skills come from 3 decades of experience in the road design and construction industry. He has extensive experience in the concept, planning, design, construction, maintenance and asset management of roads and bridges. Phil's skills in project management, contract management, along with his technical and analytical approach to issues can be applied to any field for a successful outcome. Phil often sees the "big picture" issues, problems and resolutions where others fail to do so.

## Qualifications and Professional Memberships:

Master of Engineering (Research), Queensland University of Technology, 2003  
 Bachelor of Engineering (Civil), Queensland University of Technology, 1990  
 Registered Professional Engineer, Queensland, No. 6061  
 Chartered Professional Engineer, No.381915  
 Member, Institution of Engineers Australia

**Years Experience** 32 Years

## Current Company Experience :

### Director, Principal Engineer : Road Engineering Services | August 2013 – present

Phil established Road Engineering Services and is working with various clients to deliver their programs and projects, including: road planning, road design, pavement design and options, road asset management, construction tender, construction issues, technical construction issues and contractual claims, contract administration, and pavement research. Also refer to website [www.roadeng.com.au](http://www.roadeng.com.au) for full list of services.

## Professional Experience :

### Project Manager : Flood Damage Program | Maranoa Regional Council | Roma | \$22 Million | July 2021 – Present

- Establish a reconstruction program based on approved flood damage elements;
- Identify and allocate resources, both internal and external.  
15 resources based crews identified for various works.
- Consult and develop suitable internal construction /maintenance team works program;
- Develop full contractual and technical documentation for external contract works LGA tendering process;
- Identify and develop contract for external engineering supervision of external contracts;
- Monitor program, wet weather affects, resource efficiency, costs, quality of work, claims.

### Asset Renewal Pavement Program | Toowoomba Regional Council | October 2019 – May 2021

- Project Manage and undertake the following :
  - Study of condition data and flagging of areas for site inspection. Includes the application of Engineering asset management theory and mapping data;
  - Network-wide site inspections with TRC Engineers and Works Co-ordinators;

- Field validation of condition data;
- Identify suitable pavement treatment applications and prioritisation both for constrained and unconstrained funding models;
- Develop and recommend suitable strategy for the District's pavement network that address the identified issues;
- Input into program development, geographical optimisation, bulking and efficiency; and
- Peer review, engagement and training with Engineers, Works Co-ordinators and Managers.
- Development of Resurfacing and Pavement Rehabilitation programs 21/22 – 23/24.

**Contract Administrator | TMR Fitzroy District (Via Civil Services Group) | Queensland | \$45 Million | February 2019 – February 2020**

- Appointed as Contract Administrator for two road contracts on the Bruce Highway between Gladstone and Rockhampton. Manage two teams of consultant and TMR staff to deliver project with Contractors.
- The Benaraby North Safety Upgrade Project with a contract value of approximately \$37M includes major earthworks, drainage rehabilitation, unbound granular pavement, guardrail and barriers, intersection and access upgrades and lighting.
- Several of the key management elements on the Benaraby Project include :Relationship workshop, informal project leadership management team; Traffic management innovation review; CA quality system.
- The Bob's Creek Project include major pavement and drainage rehabilitation. The pavement includes widening, triple blend (Lime/Cement/Flyash) stabilisation of existing pavement with a foamed bitumen stabilised overlay. Approximate Value \$8M.
- Contract Type on both projects is a TIC-CO : Transport Infrastructure Contract – Construct Only.

**Unsealed Road Engineering and Management Training Workshops | Australian Road Research Board | March 2019 – Present**

- Senior Engineering presenter;
- Undertaking training for Councils through IPWEAQ, Queensland Parks and Wildlife Services (QPWS); Councils throughout Australia and their subcontractors;
- Training includes the areas of asset management, pavement material engineering, unsealed road performance, unsealed road practices and cost effective treatments, and road safety issues.
- The training also includes a practical site/field visit to local unsealed roads to work with practitioners on challenges they experience.

**Road Pavement Research| Australian Road Research Board | Austroads Project AAM6144 : Sustainable Roads through fit for purpose use of available materials | Dec 2018 – April 2019**

- Assessment of pavement performance data requirements and undertake negotiations with TMR to obtain suitable Central Western Queensland project data;
- Obtain Materials data for colloquially named Winton Sandstone, Ridge Gravel, Kopi, Mud stone pavement materials sources;
- Undertake road performance data analysis and present roughness, rutting, cracking, construction history, rainfall history, pavement material type (confirmed by site visit), etc in a pavement performance (segment by segment) tool;
- Undertake joint 'panel' assessment of pavement performance, developing criteria of acceptance;
- Provide summary observations, summary data analysis and possible actions going forward for ARRB.

### **Road Construction Technical Issues and Contractual Claims | Queensland | Various Contractors | June 2018**

- Investigate pavement construction issues in relation to stabilised pavement construction and relate to specification requirements. Undertake onsite investigation and provide assessment and a technical way forward for all parties. Provide written report and data assessment.
- Assess Contractor's contractual position on a range of issues. Provide technical and contractual advice as input into claim finalisation. Includes addressing earthworks, traffic management, limits of accuracy and stabilised pavement issues.

### **4 Year Road Rehabilitation and Resurfacing Strategy and Program | Darling Downs District Toowoomba | TMR | July 2017 – June 2018**

- Develop suitable methodology for :
  - Study of condition data and flagging of areas for site inspection. Includes the application of Engineering asset management theory and mapping data;
  - Network-wide site inspections;
  - Pavement Treatment application and prioritisation both for constrained and unconstrained funding models;
  - Develop and recommend suitable strategy for the District's pavement network that address the current issues;
  - Program development, geographical optimisation, bulking and efficiency;
  - Condition data based outcomes; and
  - Peer review and engagement with Engineers, Inspectors at TMR and LGAs
- Document full report on process and outcomes;
- Write several reports on specific subjects such as Microsurfacing performance within the District, pavement treatment options for some of the politically topical roads, implementation strategies;
- Industry engagement on improved practices and products; and
- Identify opportunities for innovative contract delivery;

### **Road Maintenance | Toowoomba Regional Council | Maintenance Activity Review | Jan - March 2017**

- Review all aspects of TRC's maintenance operations for key maintenance activities across 7 maintenance business centres.
- Includes review of planning, resourcing, costing, plant utilisation, product quality, legal claims, safety issues, stakeholder complaints, and benchmarking against adjacent Council operations.
- Field validation.
- Identify opportunities for improvement.
- Identify areas for savings, with savings to be reinvested into other maintenance activities.
- Undertake peer review at all stages through the process, via presentation and discussion.
- Write document outlining the process, analysis, conclusions and recommendations

### **Road Pavement Research| Australian Road Research Board | Austroads Lightly Bound Pavement Performance Project| May 2016 – September 2016**

- Assessment of pavement data requirements and undertake negotiations with TMR to obtain suitable Queensland-wide project data.
- Undertake data analysis and present data in a suitable manner that displays laboratory data, asset data, construction data and field cracking performance data, in a coherent fashion to meet ARRB's goals and objectives.
- Undertake extensive field work across Queensland including liaison with local Engineering staff on a range of technical details. A review of project and laboratory records was also undertaken.
- Provide technical expertise and review of pavement performance and technical report for project input.

**Construction Planning| Toowoomba Regional Council | Ruthven St Streetscape Project (Russell St to Chalk Drive) | \$4.5 Million | July 2016**

- Work with TRC construction teams to review and develop a resource based construction schedule.
- Investigate project acceleration options based on resourcing and critical public access and traffic constraints.
- Introduce specialist scheduling resources to meet timeframes, freeing up other team members time to undertake other important planning and project start-up tasks.

**Pavement Design & Other Civil Works| Cassowary Coast Regional Council | November 2015 – March 2017 (part time – as required)**

Provide Engineering expertise input into the following projects:

- Etty Bay Road – pavement rehabilitation/reconstruction
- Tully – Mission Beach 2-way shared cycle and pedestrian path. Business Case, prelim design and final design review.
- Innisfail CBD pavement condition review and pavement design options.

**Road Planning Options Analysis & Business Case| Downs Region/ Toowoomba | TMR | \$135M | August 2013 – April 2016 (part time)**

Provide project management and road planning expertise in coordinating the necessary tasks to develop and produce the Options Analysis and Business Case documents for TMR PP&CM unit in Toowoomba.

Projects include :

- 8 Mile Intersection - Low Cost Grade Separation (Intersection of the Cunningham and New England Highway). Approx. \$30M
- Acland Intersection Upgrade – Jondaryan, Warrego Highway. Approx \$5M.
- Dalby Eastern & Western access Upgrade Projects. Approx \$100M
- Gore Highway Flood Study. Approx \$0.4M
- New England Highway Safety Package. Approx \$12M

**Pavement Treatment Assessment & Report| Vanuatu – Port Vila | Port Vila Urban Development Project (PVUDP)| \$30M | July 2015 – September 2015 & February 2016 - Present**

This commission involved reviewing previous pavement design work, undertaking a field study, determining a suitable network asset management approach with a range of suitable pavement treatments, and reporting the methodology and outcomes. Presentation to the client and funding authorities (Asian Development Bank, Australian Government (DFAT) was also a key component. A review of 'Auspec' specifications was also undertaken, amending these to suit the Vanuatu contract. Inclusion of modern techniques in the specification was also a key component.

Ongoing support has also been provided in the area of 'knowledge transfer' to client and contractor staff. A range of construction and contract advice has also been provided to assist the client throughout the delivery of the project, including bitumen sealing and asphalt works.

**Road Pavement Research| Australian Road Research Board | ARRB | \$1M | January 2014 – June 2015**

Provide technical expertise and review of pavements projects including asset management data analysis. Assessment of data requirements and technical negotiations with TMR, and assist in developing suitable research strategies and methodologies to deliver outcomes on time and within budget. Projects include :

- Stabilisation Practices in Queensland. Addressing Foamed Bitumen Stabilisation, Plant-Mixed Cement Modified Bases and insitu Cement Modified Bases.
- Learnings and review of Pavement Treatments from the \$6 Billion Transport Network Reconstruction Program
- Investigation into the use of Modified C Grading for unbound pavements

**Strategic Asset Management | Toowoomba Regional Council | November 2013 – March 2016 (part time : annual reporting and review input)**

Provide road asset management expertise and advice to develop systems and strategies to meet TRC's business needs. Tasks include :

- Develop strategy to implement asset management in accordance with ISO 55000 (PAS 55), the International Infrastructure Maintenance Manual (IIMM), IPWEA manuals and TRC's corporate plan
- Develop asset management reference/working group strategy and facilitate way forward
- Develop road asset reporting and performance monitoring techniques and reports

**Road Construction Tender Document | TMR prequalified Road Construction Contractor | Brisbane | as required**

Providing input into the preparation of tender documentation for large road construction contracts. Develop and/or provide technical review and verification of documentation to meet client requirements. Ensure quick and thorough review to meet tight tender timeframes.

**Manager : Natural Disaster Relief and Recovery Arrangements (NDRRA) projects | South West Region/ Roma | TMR | \$1.05 billion | December 2010 – August 2013**

The NDRRA projects are repairing roads and associated infrastructure that were damaged by extreme wet weather events. These projects required fast mobilisation and strong collaboration as well as the adoption of relationship contracting principles in order to implement immediate action and minimise disruption to motorists and communities.

As Area Manager Phil was responsible for the project design, procurement of contractors and contract administration. He managed a direct team of 25-30 people and has responsibility for design review and approval, design interface in construction, procurement, contract administration, technical analysis and contractor supervision. He provided leadership in client and contractor interface and works collaboratively to ensure any issues are resolved to achieve best for project outcomes. Phil was directly responsible for delivery of over \$300M and worked as a senior leader in a project of approximately 100-120 direct project staff and in excess of 400 various road contractor's staff.

**Design Manager : Gold Coast Rapid Transit | Gold Coast, Queensland | Queensland Transport Major Projects | \$50 million | November 2009 - August 2010**

Phil had responsibilities for design management of road/rail enabling works - Section 3 of the Gold Coast Rapid Transit, a light rail project from Surfers Paradise to Broadbeach. He was involved in design team management, client interface, project management, complex land resumption, technical delivery, contract documentation, urban stormwater design, road design, pavement design and service authority liaison. Construction and asset management issues were key issues addressed in the design phase.

**Senior Technical Assistance to Superintendent : Pacific Motorway Upgrade Project | Springwood South to Daisy Hill | TMR | August 2009**

This project involves refurbishing the motorway from Springwood (south) to Daisy Hill including heavy-duty asphaltting, constructing wider road shoulders, safety barriers and installation of improved signage, to preserve and maintain the road network for the next 20 years. The objective of the project is to improve safety, traffic flow, local access and travel times on the Pacific Motorway.

Phil developed the construction verification plan, traffic management plan, systems and quality plan for Main Roads Contract Management Team. This role required strong collaboration between TMR and the Contractor.

**Safety-in-Design : Bruce Highway Cooroy - Curra, Section B | Cooroy, Queensland | TMR | July 2009**

The upgrade of the Bruce Highway Cooroy-Curra involves delivering a four-lane divided highway built to modern motorway standards, with the ability to be upgraded to six lanes. Section B involves the package of work between Sankeys Road to Traveston Road.

Phil led the detailed design team through Safety-in-Design Workshops and documentation.

**Construction Project Manager : Marburg/Minden Ranges Pavement Rehabilitation Design and Construction project | Brisbane to Toowoomba, Queensland | RoadTek | \$7.5 million | May 2009 - August 2009**

For this project, Phil directly managed a team of 10 people and was involved in :

- Project management - cost control, program control, reporting and staffing
- Construction management - detailed program, plant resources, materials, quality, safety, environment
- Contract and subcontractor management
- Technical management - specification issues resolution, design changes, onsite risk management for wet weather and general productivity

**Design Manager : Kogan Ash Pipeline Project (KAPP), | Brigalow, Queensland | Kogan Creek Powerstation | \$1 million | November 2008 - June 2009**

Phil was involved in design management and was Contract Superintendent for this project that involved constructing a new ash disposal dam to replace the existing dam as well as ash transfer pipelines and a high pressure water wash down line to transport the ash slurry from the power station to the new dam, 4.6km away.

**Construction Project Manager : Crows Nest road construction project | Crows Nest, Queensland | RoadTek | \$10 million | July 2008 - April 2009**

Phil managed a direct team of approximately 30-40 people and an extended team of approximately 60-80 people to deliver a major project on time and under budget. Key tasks included:

- Project Management - cost control, program control, reporting and staffing
- Construction management - detailed program, plant resources, materials, quality, safety, environment
- Subcontractor management
- Contract management - Variations, EoTs, Contract claims, etc
- Technical management - specification issues resolution, design changes, onsite risk management for wet weather and general productivity

**Design Manager : North Coast Rail Line upgrade | Beerburrum to Landsborough, Queensland | Queensland Rail | \$380 million | 2007 - 2008**

Phil was directly responsible for the design development, detailed design and construction support for the Trackstar Alliance. The Trackstar Alliance involves five parent companies including Thiess and United Joint Venture, Aurecon, Maunsell and Queensland Rail. The project involved 17 km of rail (two tracks) and 10 km of road and 10 bridges.

Key tasks included:

- Project management - cost control, program control, reporting and staffing
- Community engagement
- Major land resumptions
- Technical delivery (quality and safety in design)
- Technical documentation for Target Cost Estimate (TCE)

- Liaison with constructor to achieve milestones
- Co-ordination of geotechnical, environmental, design, drafting, structural engineering (bridges and stations), architects, rail systems (power, overhead, signalling and comms), hydrology and hydraulics, civil rail and road engineering
- Liaison with Caloundra City Council and Department of Main Roads
- Liaison with many sections of Queensland Rail

**Superintendent : Highfields four-laning project | Toowoomba, Queensland | TMR | \$8.8 million | 2007 - 2008**

Phil's responsibilities on this project included contract administration, supervision of Superintendents' Representatives, approval of monthly progress payments, technical and contractual issue discussion/supervision/instruction and variation management.

**Director : New England Highway Program | Toowoomba, Queensland | TMR | \$50 million | 2005 - 2007**

Phil was responsible for establishing an implementation strategy (project approach, engineering scope, program of works, cash flow, human resources). He established a nucleus team of seven people and many consultant teams working on various aspects of the projects.

The project required the management of approximately 50 people. Challenges included community engagement processes, land resumption processes, complex service authority interaction and relocation, implementation of new electrical services, consultant management, traffic management, environmental and constructability issues. Phil identified the need to use innovative laser scanning technology to provide survey information for public consultation presentations. Phil was the Superintendent for all Contracts.

He also project managed the 'fast-tracking' of the concept, consultation, planning, and design of a complex urban dual carriageway road construction through Highfields, north of Toowoomba. The project required extensive public consultation and feedback to the community, resolution of a number of constructability issues, and resolution of a number of stakeholder issues. He also managed the delivery through these pre-construction phases and Superintended the contract. Total project budget \$5.8 million, includes complex stormwater, services, traffic management, and community liaison.

**Project Manager :TMR | Toowoomba, Queensland | 2005 – 2007 | Fibre Composite Bridge Research**

Phil was Project Manager of a series of research projects investigating the use of Fibre Composite Bridge Decks and girders. Two separate collaborative partnerships between Main Roads and Wagners Composite Fibre Technologies, and Main Roads and the University of Southern Queensland's Fibre Composite Design and Development. Total value of research projects including installation is approximately \$3.2 million. Specifically, Phil:-

- established partnership documentation
- created project technical documentation with assistance from structural engineering experts
- assessed proposals from the collaborative partners
- provide construction input into the research components
- administer agreements and Superintend construction

**Asset Manager : Queensland Department of Main Roads | Roma, Queensland | 1999 - 2000/2002 - 2004**

Phil managed a unit of five permanent staff and between two and eight additional subcontract staff (internal) to achieve required outcomes. The position is a senior management role within the District Office (approx 50 staff) and requires the combination of management and technical expertise. Manage a unit of five permanent staff and between two and eight additional subcontract staff (internal) to achieve required outcomes. The position is a senior management role within the District Office (approx 50 staff) and requires the combination of management and technical expertise. Duties included:

- Business Planning;
- Monthly Cost Centre Budget and Asset Control (\$500k to \$700k);
- Manage staff performance (5 N<sup>o</sup>) to achieve key performance indicators;
- Human Resource issues (mentoring, coaching, performance review, staff rehabilitation, recruitment etc);
- Quality system management;
- Participation in senior management business review and technical review task groups at a Regional and State level;
- Continual improvement of all business and technical systems;
- Provide high level technical advice and reports on a variety of industry issues.
- Manage the asset management system for approximately \$1 billion of road and bridge assets, including ongoing system reporting;
- Manage the collection of annual pavement condition data;
- Member of District Management Team;
- Member of the District Project Management Board. This Board is charged with the duty of ensuring project cost and scope control for the \$30m (approx) annual infrastructure budget throughout the planning, design and construction phases;
- Develop and review long term infrastructure strategies based on set funding levels;
- Develop annual bridge maintenance, upgrade, and replacement programs (\$1m-\$2m). Includes ensuring proper and timely inspection and data collection;
- Develop cost efficient annual bitumen resurfacing programs for a 3,400km sealed network (\$4m-\$5m annually). Includes high level spread-sheeting of asset data and manipulation to formulate targeted inspection programs and final data collection;
- Identify candidate pavement rehabilitation segments and recommend suitable treatment;
- Perform technical reviews of various aspects of road construction and maintenance. Includes insitu-stabilisation review, thin asphalt review, pavement rutting review, etc;
- Introduce innovations to force more cost-effective practices and higher quality products. Includes insitu-stabilisation for Maintenance and construction, thin lift asphalt with Paveset survey/design system in cooperation with Boral, aggregate spreaders, water re-texturing of flushed seals etc; and
- Manage/develop/recommend the concept (or project brief) for each capital road and bridgeworks project.
- Developed the GPS Tripmeter technology with Roads Information Branch to revolutionise the way in which Main Roads staff can accurately find out where they are on a Main Road and use this data electronically if required. The project won the Best Innovation Award at the Main Roads Technology Forum 2006.

**Master of Engineering, Research | Brisbane, Queensland | Queensland University of Technology | January 2001 - December 2001**

Using the Main Roads/QUT alliance, Phil proposed an industry based research project to review road deterioration models. The proposal was accepted by QUT and Main Roads senior management, and led to a fully sponsored research effort. The work led to further investigations and research by ARRB.

**Principal Engineer : Infrastructure Delivery | Roma, Queensland | DMR | 1995 - 1998**

This position was 2IC to the Manager Infrastructure Delivery and performed the following duties:

- Project management of \$10 million to \$20 million road and bridge construction projects annually
- Implement an array of contract types, including AS2124 contracts (open tender), standard government supply of service contracts (open tender and sole invitee), customised AS2124 Sole Invitee contracts with overarching protocol agreement and minor works contracts
- Act as a senior Superintendent's Representative (Superintendent in absence of Manager) and perform contract administration for all of above contract types. Includes controlling : variations, variation assessment, project costs, product quality, project program, project time extensions, technical control, etc



- Supervise five permanent staff (three Engineers, two Inspectors) and up to four subcontract consulting Engineers and inspectors in all aspects of Infrastructure Delivery operations
- Assist Manager in co-ordination of resources
- Human Resource issues
- Provide high level technical and contractual advice to the Superintendent and Principal
- Manage, negotiate, and resolve minor and major contract disputes
- Project management of major projects across planning/design/construction phases (Cooper Creek Project). Includes remote area material investigations to implement cost savings, 'fit-for-purpose' design, implementation of one of the first government Alliance type contracts, design of special contract conditions for extreme remote areas, and full monitoring of cost and quality outputs
- Review suitability of contract and technical documentation prior to release for tender
- Consultation with the public and Local Government Authorities on a variety of issues
- Negotiate best value for sole invitee contracts
- Establish and maintain works price benchmarking system
- Develop quality system for contract and business administration. Undertake continual improvement
- Monitor road and bridge network for poor performance and feed information into future district capital works program
- Monthly project expenditure forecasting and project review.

#### **Queensland Department of Main Roads | Charleville | 1994 – 1995**

Supervision of four staff in a rural and remote office environment to ensure delivery of between \$6 million - \$8 million per annum of infrastructure construction and maintenance projects.

#### **Queensland Department of Main Roads Design Services | Toowoomba | 1993 - 1994**

- Pavement design and reporting
- Engineering decisions and input into road design
- Initiate, design and manage a costing database for use in the concept, planning and final cost estimate phases
- Briefing of consultants for input into designs
- Co-ordinating onsite pavement and geotechnical investigations
- Introduce innovative practices for construction.

#### **Main Roads Engineering Exchange | United Kingdom | 1992 - 1993**

Phil was successful in applying for a 12 month fully funded work exchange, and undertook the following duties:

- Road design using MOSS software
- Analysis of various technical issues and preparation of associated technical papers
- Project costing
- Preparation and involvement in the public consultation process for the M4 Motorway in England.

#### **Queensland Department of Main Roads | Toowoomba | 1990 - 1992**

- Urban road duplication (\$2 million - \$5 million)
- Rural road and bridge construction projects (\$1 million - \$3 million each)
- Project management, including quality, time, cost, and contract control from construction perspective
- Computer programming and use of project management software
- Resolution of design issues/errors
- Road maintenance project supervision
- Subcontractor appointment and management

## Referees

**Justin Fischer** : Cassowary Coast Regional Council, Asset Manager, 0428 136 747

**Cameron Hoffman** : Maranoa Regional Council, Deputy Director Strategic Road Management, 0409 985 447

**Glen Allen** : Civil Services Group, Director, 0418 734 404

**Michael Burling** : Toowoomba Regional Council, Principal Programs Officer, 0418 670 062

**Mike Harris** : Project Director South West Transport Network Rehabilitation Program, 0427 621 138

**Denis Manaserro** : Office Manager Toowoomba, Aurecon. 0429 165 945.

**Chris Lunson**, Roadtek – Manager, (Asset Services South), TMR – Roadtek, Pavement Rehabilitation, Minden – Marburg Ranges, 0428 871 533

**David Willis** : Principal Engineer, Transport and Main Roads, Project Planning and Corridor Management Unit, 4639 0609, 0438 390 862.

**Michael Moffatt**, Manager ARRB Sydney Office, ARRB Group; M 0409 537 098;  
E michael.moffatt@arrb.com.au

**Angelo Casagrande**, Executive Manager Construction and Maintenance, Lockyer Valley Regional Council; M 0499 989 988; acasagrande@lvrc.qld.gov.au

**Lawrie Carlson**, Team Leader (Project Director), Port Vila Urban Development Project, Vanuatu.  
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**Bruce Steele** : Manager (Project Planning and Corridor Management), Transport and Main Roads Downs District, ph : 4639 0867, mob 0429 156 011

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