



ENGINEERING SERVICES



TALIS CONSULTANTS

WHO WE ARE

Talis was established in 2012 and is a medium sized, versatile consultancy with a particular focus on client services across the public and private sectors. We are a multidisciplinary team with established capabilities in the areas of:

- Asset Management
- Civil and Structural Engineering
- Environmental Services
- Noise Engineering & Management
- GIS & Spatial Intelligence
- Waste Management



WHAT WE DO BEST

FIT-FOR-PURPOSE SOLUTIONS

At Talis we recognise the necessity to develop tailored project solutions that are cost effective and fit for purpose. Best practice asset management is achieved by adopting a life-cycle approach, which uses transparent, informed decision-making processes, that takes into account the whole-of-life implications of acquiring, operating, maintaining and disposing of assets.

WE UNDERSTAND PUBLIC WORKS FUNDING & PROCUREMENT

Our multidisciplinary team have a diverse work history, having either worked for or provided consultancy services to local and state governments and private enterprises. We have in-depth knowledge and understanding of government processes, including governance, procurement and design standard requirements which contributes to the successful delivery of both government as well as private projects.

WE UNDERSTAND PUBLIC WORKS FUNDING

- Diverse work history with local/state governments and private enterprises
- In-depth knowledge of government processes, including governance, procurement and design standards
- Expertise contributes to successful delivery of government and private projects

DIVERSE RANGE OF CLIENTS

- Client-focused culture and local government knowledge
- Commitment to providing effective, tailored solutions with technical expertise
- Success in delivering solutions for both private and public sector clients
- Clients include Main Roads WA, Port Authorities, BHP, Chevron and others



OUR SERVICES

Project Management

The Talis Project Management team is selected based on their technical expertise gained from extensive experience of large scale public and private engineering projects and the skills required to successfully navigate the project environment. Our past experience and in-depth knowledge of local government policies, procedures, design standards and procurement processes contributes to our intimate understanding of our Clients needs which is demonstrated through our fit-for-purpose, efficient and effective solutions. Some of our project management services include:

- Feasibility Reports and Funding Applications
- Project Planning Reports and Business Case Submissions
- Tender Documentation and Tender Evaluation
- Project Procurement Strategy Preparation
- Construction Project Management
- Site Supervision and Quality Assurance
- Contract Administration and Management
- Public Works Organisation Operational Reviews

Engineering

Talis offers specialist Civil, Structural & Transport Engineering, Natural Disaster Engineering and Project Management Services. Our engineering expertise includes, but is not limited to:

ROADS AND PAVEMENT INFRASTRUCTURE

- Assessment, modelling and design for roads, pavements, road and drainage infrastructure, on and off street parking
- Quantity surveying and cost estimation
- Quality assessment (QA), technical specification documents for road and infrastructure
- Infrastructure design risk assessment and mitigation

STRUCTURAL ENGINEERING

- Structural design and certification of buildings and civil infrastructure works
- Site Investigations, structural condition audits and reporting for building and engineering structures, and
- Analysis, design, inspection, testing and certification of bridges and related structures

NATURAL DISASTER ENGINEERING

Damage assessment & project management of recovery and reinstatement of essential assets and infrastructure following the declaration of natural disaster events.

MINING INFRASTRUCTURE

Capability to provide design and project management services for delivery of mining infrastructure, including early works and non-process infrastructure.

ROADS AND TRANSPORT

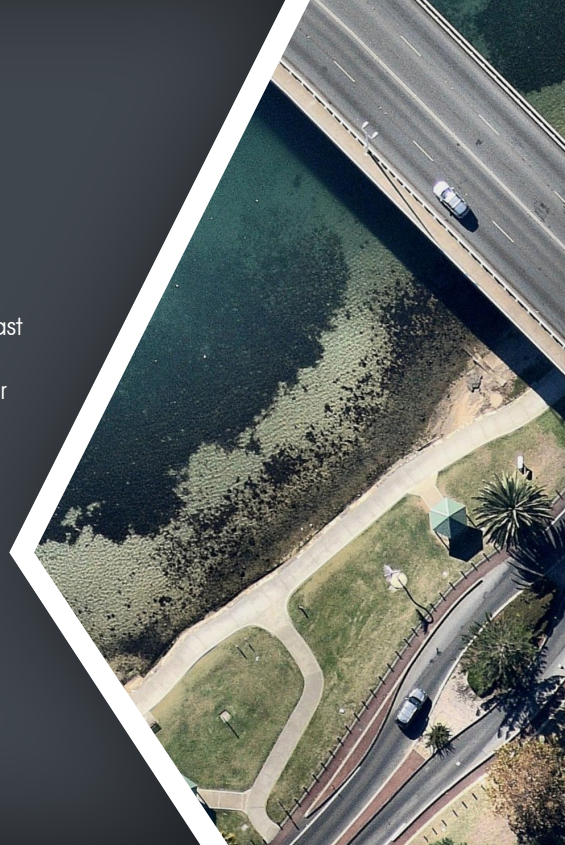
- Feasibility studies for traffic improvements
- Assessment for transport requirements for heavy/large vehicular fleet
- Public transport design, including pedestrian walkways and cycle tracks
- Roads and traffic Value engineering and risk management assessment

GEOTECHNICAL

- Geotechnical Investigations to support infrastructure design
- Contaminated Site Investigations
- Hydrogeological Investigations
- Asbestos Management
- Acid Sulphate Soils

WATER MANAGEMENT ENGINEERING

- Design and drafting of water management requirements
- Storm water management
- Drainage inspection services
- Flood mitigation planning and design
- Catchment and water management design
- Waterways enhancement design and rehabilitation
- Hydrology and hydraulics device design



OUR ENGINEERING TEAM

JOHN KING | DIRECTOR

John is a founding Director of Talis Consultants with over 45 years professional experience as a Civil Engineer including 15 years in local government and 30 years in the consulting industry.

John has led project teams on behalf of local governments in the successful delivery of some of Australia's largest waste management procurement and contract projects. He continues to be in high demand for his advisory services to local governments in the fields of civil engineering, asset management and waste management.

KEN WILYMAN | SENIOR ENGINEER

Ken has extensive experience in the delivery of a diverse range of infrastructure projects. This includes whole-of-life infrastructure from early feasibility studies, obtaining approvals, stakeholder consultation, design, construction, contract administration through to ongoing operations, maintenance, facility closure and rehabilitation.

Ken challenges accepted practice to achieve innovative project solutions and is a problem solver with a strong focus on safe project delivery.

MIKEL HARAMBOURE | TEAM LEAD - PROJECT MANAGEMENT ENGINEERING

Mikel is an outcome focused professional, acknowledged by peers for strengths in communication, problem solving and innovation. As an engineer with 18 years of experience, Mikel has led projects in construction, maintenance and asset management. His experience includes working for the Local Government and private sector, contracts and procurement, civil engineering and land development and delivery of projects valued between \$100,000 and \$5 million. Mikel's diverse experience has contributed to his holistic understanding of and demonstrated expertise in effective project management.

TRAVIS KELL | ENGINEERING SECTION LEADER

Travis has been involved in residential, commercial and industrial land development projects for over 20 years. Demonstrating remarkable finesse, Travis has skilfully executed challenging civil engineering designs and undertaken superintendency duties, all while managing intricate consultant and stakeholder relationships throughout the project lifecycle. Travis is a focused professional and is recognised by his peers for his strong organisational skills, unyielding commitment and effective leadership.

With qualifications in both Science and Engineering, Travis exemplifies a structured approach to problem solving by encouraging stakeholders to think outside the box and by emphasising the importance of team communication.

STUART HYDE | PRINCIPAL STRUCTURAL ENGINEER

Stuart is a Chartered Structural Engineer with over 20 years experience in the industry. His areas of expertise are in structural design, all aspects of project and construction management including contract and financial management, materials selection and handling and structural form and framing. His experience in mining projects, public works infrastructure and industrial and commercial buildings has given Stuart an in-depth knowledge of the design processes that influence the successful delivery of a project. Stuart's extensive knowledge and engineering expertise, makes him an integral part of the Engineering Team.

PAUL GAUCI | CIVIL ENGINEER

Paul is a Civil Engineer who has worked on a variety of industrial and infrastructure projects, specialising in civil and structural design and minor public works. Paul has developed extensive design expertise working on a range of infrastructure projects for both government bodies and private industry including the Esperance Port Access Roads Realignment and Pavement Rehabilitation project and Gascoyne Junction drainage improvements. Additionally, Paul has provided on-site technical support and supervision for the construction of the Gascoyne River Bridges and associated access roads and drainage.



PROJECT EXPERIENCE

PROJECT MANAGEMENT

PROJECT NAME: INFRASTRUCTURE SURVEILLANCE SERVICES

CLIENT: MAIN ROADS WESTERN AUSTRALIA (MRWA)

Talis is currently contracted by MRWA to undertake road and structures surveillance services to assist the Infrastructure Delivery Directorate to deliver road and bridge infrastructure projects in WA. The scope of services include design and construct, construct only and alliance projects in regional and metropolitan WA.

PROJECT NAME: ULLAWARRA ROAD UPGRADE

CLIENT: SHIRE OF UPPER GASCOYNE

On behalf of the Shire, Talis secured \$6M in Heavy Vehicle Supply and Productivity Program (HVSPP) funding approval for road upgrade works and currently provides professional project management services to the Shire on a range of road repairs and upgrade works contracts.

PROJECT NAME: GASCOYNE RIVER BRIDGE

CLIENT: SHIRE OF UPPER GASCOYNE

Talis was engaged by the client to provide project management services, including the contract and tender management for the design and procurement stages as well as providing technical support and consultation directly to the client throughout the construction phase. The project was delivered on time and under budget.

PROJECT NAME: CAPITAL WORKS PROGRAM

CLIENT: TOWN OF PORT HEADLAND

Talis is providing a range of project management and professional engineering services to the Town. The scope of work includes administration and management of the delivery of road construction and road upgrade projects including feasibility, design concept and development, program and risk management, contract procurement, administration and construction supervision.

PROJECT NAME: ROAD - FLOOD DAMAGE REPAIR WORKS - PM SERVICES

CLIENT: SHIRE OF BROOME (WANDRRA)

Talis was engaged by the Shire of Broome to provide damage assessment and project management, superintendent and surveillance services for flood remediation works. The scope of work included assessment of damage resulting from a flood event, cost estimate of rehabilitation works, contractor procurement, site surveillance, project management, and contract administration, including preparation and submission of WANDRRA reimbursement claims to MRWA on behalf of the Shire.



ENGINEERING

The key drivers of our Effective, Efficient and Economic Engineering Solutions.



PROJECT NAME: FAR NORTH COLLECTOR ROAD - BRIDGE DESIGN & HYDRAULICS MODELLING

CLIENT: SHOALHAVEN CITY COUNCIL

Talis provided a flood plain hydraulic analysis and structural designs for new bridge structures crossing Bomaderry Creek, NSW. The bridge comprises 5 spans of 18m and is designed according to AS5100 Bridge Design Standard. Talis provided design drawings and priced bills of quantity for the bridge and 10 concrete culvert structures.

PROJECT NAME: REALIGNMENT OF BAYLEY AVENUE - DETAILED DESIGN

CLIENT: CITY OF KARRATHA

Talis was contracted by the City of Karratha to provide detailed design services for the widening and realignment of Bayly Avenue as well as the extension of Karasek Way. This included preparing conceptual detailed designs and supporting tender documentation. The Project also included significant upgrades to public lighting and landscaping design with a particular focus on sustainability in design including recycling pavement material, water reuse and energy efficient lighting.

PROJECT NAME: NEW HEAVY DUTY WORKSHOP FACILITIES

CLIENT: EMRC, HAZELMERE

Talis was appointed by the client as the structural engineer and lead designer for a new heavy duty maintenance workshop, site offices and amenities building at the EMRC resource recovery park in Hazelmere. Talis provided the full suite of designs including structural and services engineering, designs as well as architectural documentation and supported the client during the construction phase of the works.





PROJECT NAME: PEDESTRIAN AND CYCLE BRIDGES

CLIENT: CITY OF KARRATHA

Talis provided structural designs and technical specifications for seven (7) pedestrian footbridges with maximum span of 32m as part of the Shire of Karratha pedestrian footpath and cycle network expansion project. Challenging aspects of the design were to standardise the structural configuration over different spans to create a homogeneous design and economies of scale. The design allows for modular construction of bridge segments to be fabricated off site thus minimising on site safety risks while optimising production and quality.

PROJECT NAME: RIVERSIDE ROAD - DETAILED DESIGN & PROJECT MANAGEMENT

CLIENT: TOWN OF EAST FREMANTLE

Talis is engaged by the client to undertake geometric and pavement design, drainage, lighting and landscape upgrades as part of a successful Metropolitan Regional Road Group (MRRG) funding application which was also prepared by Talis. The project also includes the preparation of tender documentation for contractor procurement and contract management.

PROJECT NAME: RECYCLING CENTRE BALCATT

CLIENT: CITY OF STIRLING

Talis provided designs for the redevelopment of the Recycling Centre Balcatta to establish a modern, best practice Community Recycling Centre. Working closely with the City, Talis provided designs for key infrastructure like roads, parking, and buildings to increase capacity and improve efficiency. Key engineering design components on the 10ha site include large commercial vehicle movements and building structures for a waste transfer station, container deposit scheme facility, greens acceptance and handling areas and a re-use shop.

PROJECT NAME: PORT HEDLAND COMMUNITY RECYCLING CENTRE

CLIENT: TOWN OF PORT HEDLAND

Talis provided designs from concept to detailed design and tender documentation for a new Community Recycling Facility (CRF) at the South Hedland landfill site. Talis was retained by the client as the lead designer for the facility and provided all designs including civil designs for roads and drainage, architectural designs for the re-use shop and structural designs for materials handling and processing components.

PROJECT NAME: POWDER LEACH NICKEL SULPHATE PLANT - STORMWATER MODELLING AND ASSESSMENT

CLIENT: BHP

Talis was engaged by BHP to provide flood modelling services to defined catchment areas, including runoff coefficients, critical flood depths, storage volumes and areas for the identified catchment. The data was obtained and derived for inclusion with a separate stormwater drainage design report and associated pond design drawings. Talis' experience of similar environments and local conditions enabled a proactive assessment of the relevant design parameters and critical modelling criteria which provided a detailed analysis within the tight project timeline.



TALIS CONSULTANTS SERVICES

1300 251 070

www.talisconsultants.com.au

HEAD OFFICE

604 Newcastle St,
Leederville WA 6007

PO Box 454, Leederville WA 6903

NEWCASTLE OFFICE

58 Cleary St,
Hamilton NSW 2303

NOWRA OFFICE

76 Bridge Rd,
Nowra NSW 2541

PO Box 1189, Nowra NSW 2541

enquiries@talisconsultants.com.au

Assets

DALE HUGHES - Asset Management Section Leader
0418 908 621 | dale.hughes@talisconsultants.com.au

Engineering

TRAVIS KELL - Engineering Section Leader
0430 994 434 | travis.kell@talisconsultants.com.au

Environment

ANDREW MACK - Environmental Services Section Leader
0402 029 244 | andrew.mack@talisconsultants.com.au

Noise

GRANGER BENNETT - Noise Section Leader
0439 394 959 | granger.bennett@talisconsultants.com.au

Spatial

NIGEL KING - Spatial Section Leader
0412 566 318 | nigel.king@talisconsultants.com.au

Waste

RONAN CULLEN - Waste Management Section Leader
0488 332 424 | ronan.cullen@talisconsultants.com.au



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