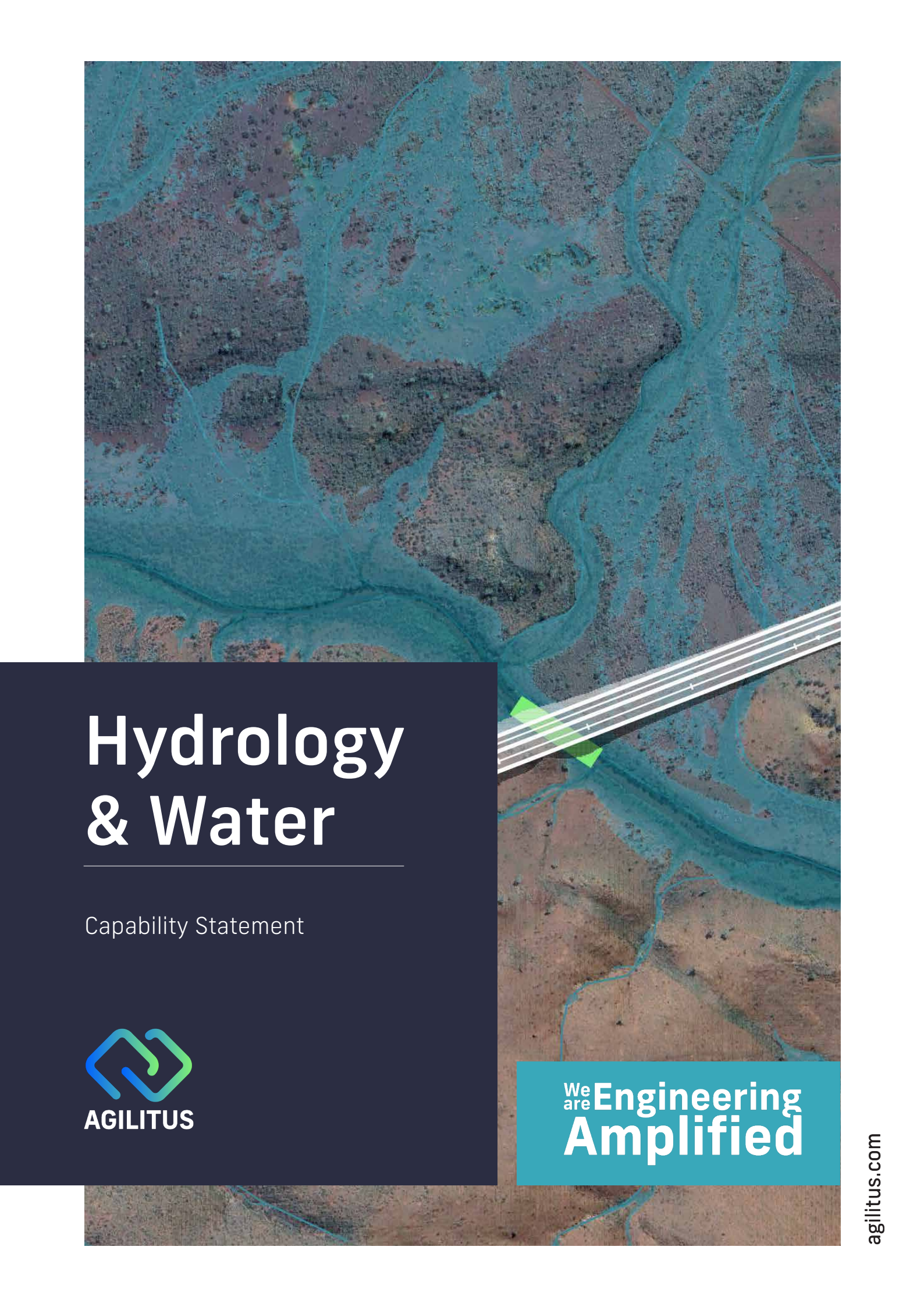




Hydrology & Water

Capability Statement



We
are **Engineering
Amplified**

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The **First Choice**
in **Engineering**

About Agilitus

Since 2017, we have expanded Australia-wide, delivering quality and reliable services in engineering, design, and project management across all disciplines and sectors.

Founded by colleagues Craig Bloxham (Managing Director) and Tony Comerford (Technical Director) after decades in the sector, their ethos of creating a business removed of staid bureaucratic processes still holds true today. It's this uncompromising philosophy that remains the hallmark of the business' true success.

"When you're one of thousands in a public listed company, it gets complicated, and Tony and I wanted to keep things simple. Complexity should not be in the management of the business, just the technical aspects of engineering. We wanted to focus on quality services and building a strong reputation of doing good work; the rest is history," said Craig.

With a vision to be the most sought-after global multidiscipline engineering business, attracting and employing the best people with like-minded values continues to be an important function of the business.

"To make it all work, you've got to have the right culture. If your team enjoy the work and the people they work with, this enthusiasm is hard to resist.

It's our distinction that no one can copy. Our clients value this in the way we work alongside them," said Tony.

We're known for our expertise and integrating solutions across all disciplines to deliver a quality product.

“ It's about being consistently predictable, reliable and value for money. ”

Craig Bloxham - Managing Director

Agilitus at a glance



480+
Workforce

With high performance culture and low turnover



6 Offices

Across Australia, Perth HQ



250+
Years

Cumulative experience of the Management Team



180+

Clients in the Resources, Energy & Infrastructure Sectors



20+ MSA

Agreements across blue-chip customers



ZERO

Lost time to injury in the last 5 years

Multidiscipline services

Agilitus is a multidiscipline engineering, EPCM and ESG consultancy with a skilled, collaborative team delivering innovative solutions to the Resources, Energy & Industrial sectors.

Agilitus offers a range of services to meet any project's most stringent requirements across the entire lifecycle.

The team is focused on providing customised project design, engineering, EPCM, ESG advisory and rehabilitation capabilities with experience in mine site infrastructure and process plants, rail systems, bridges, haul roads, ports and marine, NPI facilities, energy, as well as power supply and distribution.

Agilitus has an in-depth understanding of the project lifecycle. This includes supporting clients through all stages of the project's delivery, from exploration to conceptual design and feasibility studies to detailed design, approvals, construction support and operations, rehabilitation and closure.

- Asset management
- Civil
- Coastal
- Critical and precious minerals
- Decarbonisation
- Desalination
- Design and technology
- Digital consulting
- Electrical
- Energy
- Gold
- Ground engineering
- Infrastructure
- Heavy haul rail
- HSEQ solutions
- Hydraulic mining
- Hydrology and water
- Mechanical
- Ports and marine
- Process
- Project delivery services (EPCM)
- Pumping and piping
- Stakeholder engagement
- Structural
- Tailings management, mine closures and rehabilitation



Craig Bloxham
Managing Director and Co-founder
30+ years' experience

We develop engineering solutions suitable for our client's purposes, rather than an engineering solution suitable for your business perspective in terms of managing that risk.



Gavin Wearne
Director – Ports and Marine
23+ years' experience

Success is being a trusted advisor for our clients, delivering successful projects, and being a great place to work. We have this here.



Jason Fong
Director – Geotechnical
30+ years' experience

Agilitus has been built on finding innovative solutions, best fit solutions for problems that often a lot of our competitors haven't been able to solve.



Tony Comerford
Technical Director and Co-founder
35+ years' experience

We're in the business of solving engineering challenges but it's more than that; it's the difference we can make for clients, our people and community. It's about delivering on our promises and always exploring better ways of finding solutions.



Jamie Little
Director – Commercial and Project Delivery
23+ years' experience

We do more than just value adding; we're actually strategically looking at the whole scenario, the big picture to deliver what clients need, not necessarily just what they asked for.



Nicolle Jenkins
Director – Marketing and Business Development
30+ years' experience

Returning clients is the true indicator of our success. This represents a true commitment to solving complex problems and optimising solutions. It's who we are.



Tony Daniel
Chief Operations Officer
21+ years' experience

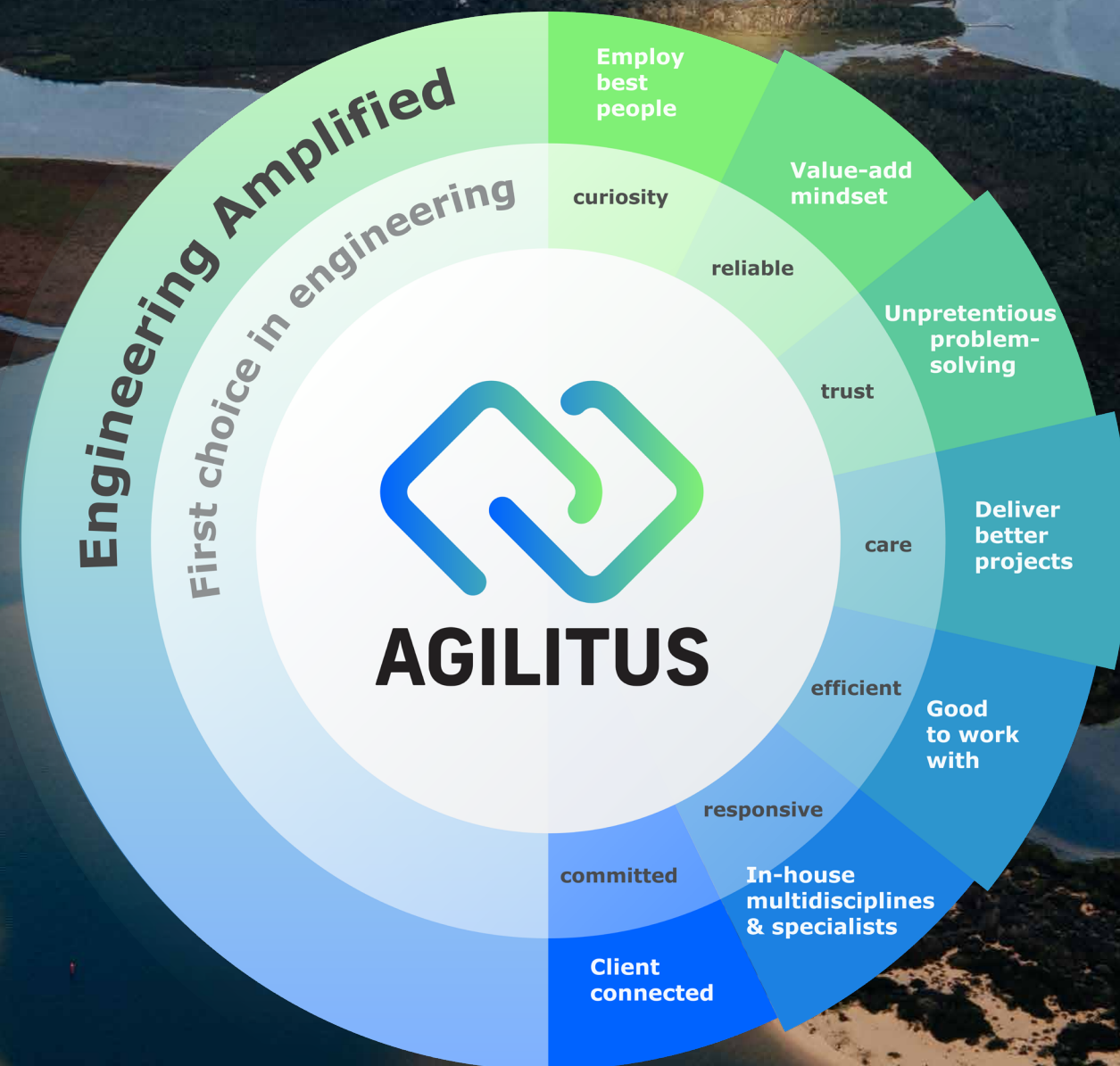
We combine exceptional technical expertise with practical, value-driven solutions for clients. This builds mutual respect and confidence in our solutions, knowing that we explore all avenues for the best fit solution for the project.



Matt Moreland
Director – Engineering
15+ years' experience

We don't do things just because that's the way they have always been done. We're not wedded to that thought process. We're always asking, what are you trying to achieve and what solution do you need.

Our difference



People & culture

We create an environment where people thrive and are empowered, safe, and supported to innovate. **Our team genuinely enjoys the work and the people they work with, and that enthusiasm becomes a powerful force.** Clients feel it. It builds trust, momentum, and confidence.

100% employee owned

When our clients succeed, we succeed. **Being 100% employee-owned means, we're personally invested in delivering outstanding outcomes.** This ownership mindset shows up in the energy we bring, the pride we take, and the results we deliver.

Brownfields experts

We're a leading brownfields specialist, with most of our work delivered in live, operating environments. Our multidisciplinary in-house team, including highly valued specialist services, provides clients with a true end-to-end capability under one roof.

We don't just work in brownfields; we excel in it.

Best-fit solutions

We design best-fit solutions which integrate seamlessly into existing operations, reduce disruption, and mitigate risk. **Our proven methodologies allow us to move with precision and pace,** applying decades of practical experience to unlock smarter, safer, more cost-efficient outcomes.



Our hydrology & water team



Fatima Kazemi
Lead Water Engineer
10+ years' experience

Experienced working with consulting and resources companies in Australia. She is a motivated and technically minded professional with extensive knowledge in planning and engineering design of hydraulic systems, civil and drainage infrastructure. She is proficient in hydrological analysis, hydraulic modelling, and flood risk assessment.

Fatima is an expert in surface water management plans and design of drainage infrastructure, including culverts, floodways, diversion drains, levees, and scour protection measures. Fatima also has experience in planning and detailed design of dewatering systems such as borefields, transfer mains, turkey's nest, as well as raw and potable water for mining operations.



Ryan Brook
Lead Civil Engineer
12+ years' experience

Experienced in the design of culverts, floodways, drainage systems and other civil assets for infrastructure projects.

Ryan has proven project management, coordination and liaison skills, with experience in tendering, contract administration and site superintendence.

His technical skills include a solid understanding of AutoCAD, MicroStation and 12D documentation and processes for civil works, QGIS, Python scripting and automation, and hydraulic modelling using the TUFLOW or HEC-RAS environments.



Hendrik Wijaya
Lead Civil Engineer
16+ years' experience

Experienced in the design of water supply reticulation, gravity sewer systems and primarily stormwater modelling within the subdivision section.

He has worked on various projects for the mining, transport infrastructure, and healthcare industries, also including remote communities, commercial and residential properties.

Hendrik's recent experience includes the Marble Bar Road upgrade detailed design, and the proposed Keysbrook Motorsport Facility.



Brenda Arciniegas
Hydrologist
6+ years' experience

Brenda has 6 years of specialised experience in applying GIS technologies to water resource management.

She is an expert on hydrologic and hydraulic modelling, floodplain analysis, and environmental restoration, where she leverages advanced GIS techniques to optimise data analysis and spatial modelling.

Brenda is committed to continuous professional growth, she brings strong skills in data organisation and process optimisation to every project.



Charles Finlay
Graduate Hydrologist
4+ years' experience

Charles is a Hydrologist with experience supporting civil engineering projects within the mining and infrastructure sectors. He has strong technical capability in hydrological modelling using TUFLOW, GIS-based analysis, and civil drainage design including culverts and floodways. Charles contributes to surface water and flood impact assessments, assisting in the evaluation of runoff behaviour, drainage performance and potential environmental impacts associated with proposed developments. Charles works with senior engineers and designers to produce practical technical outputs that support approvals, design development and construction.

Surface water management services for a sustainable future

Agilitus's proven approach to deliver schedule and cost benefits through clever engineering and true collaboration is what sets us apart.

We provide specialised hydrological services and advice to support clients across the planning, design, construction and operation of both process and non-process infrastructure. Our dedicated hydrology team is skilled in the use of leading software, tools and hydrology methods.

With extensive experience in project delivery across diverse locations, we understand the operational realities of our clients' assets and deliver hydrological insights that support safe, efficient and buildable solutions.



Project phases

Our Surface Water team offers services throughout the project life cycle covering concept, PFS, FS and Detailed Design through to construction and commissioning support

Capabilities

- Concept Studies
- Environmental Studies
- Pre-Feasibility Studies
- Bankable Feasibility Studies
- Front End Engineering Design
- Detailed Design
- Independent Technical Review
- Client Advisory Services
- Construction Support
- 1D, 2D & 3D Design
- Asset Inspection and Management



Drainage, hydrology & flooding

Providing specialised hydrological services and advice, Agilitus assists clients throughout the planning, design, construction and operation of infrastructure.

Agilitus' dedicated surface water team are skilled in the use of the most up-to-date software and trained in the application of the latest tools, methods of analysis and incorporation of climate change advice.

The team prides itself on providing practical and technically accurate advice. Our 'boots-on' leaders work directly with clients to tailor our services to meet project needs with careful consideration given to environmental constraints constructability and stakeholder requirements.

Drainage

- Culvert & Floodway Design
- Bridge Hydraulic Assessment
- Pit and Pipe Design (MRWA)
- Subsoil Drainage Design
- Open Channel Design
- Asset Condition Assessment
- Water Quality Assessment
- Waterways Investigation and Design
- 1D and 2D Dynamic Analysis
- Surface Water Management Plans
- Independent Verification

Hydrology

- Regional Method Analysis
- Rainfall Runoff Routing
- Flood Frequency Analysis
- Climate Change Analysis
- Surface Water Gauging Deployment
- Surface Water Monitoring Programs

Flooding

- 2D Flood Behaviour Analysis
- Flood Risk/Hazard Assessment
- Flood Impact Assessment
- Road Serviceability Assessment
- Time of Closure Assessment
- Urban and Regional Applications
- Mine Site Water Management
- Sediment Transport
- Water Balance

Software

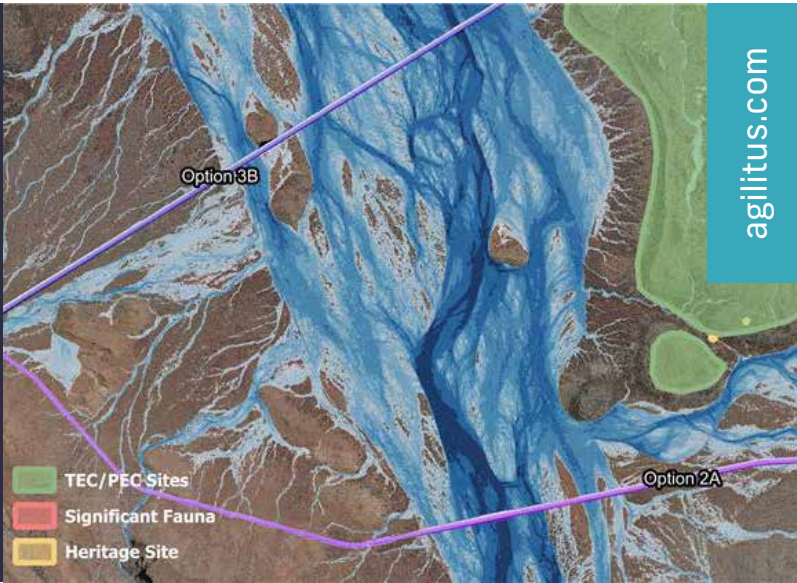
- 2D Flood Behaviour Analysis
- Rorb, Rafts, Ilsax, Rfe, Rffp, Flike
- Hecras (1D/2D), Drains, TufLOW (1D/2D)
- 12D, HY-8, Culvert Master, Xp-Swmm
- Catchment-Sim, Python, Java
- QGIS, Arcgis Pro, Global Mapper
- AutoCad, Microstation, Civil3d
- Excel Water Tools



Hydrology and Waterways Study for Mine Road Upgrade



Wyloo North and Northeast Creek Crossing Study & Drainage Design



Client



Value

Undisclosed

Location

Undisclosed

Duration

2022 – 2023

We completed a hydrology and waterways assessment of the Pilgangoora Mine Site and Wodgina Mine Access Road, including the conceptual design of floodway crossings.

Following the conceptual design phase, Agilitus's Geotechnical and Civil teams work in a joint effort with PLS to progress detailed design and site investigations for the delivery of the road upgrade project.

The operation consists of two processing plants, the Pilgan Plant located on the northern side of the Pilgangoora area, which produces a spodumene concentrate and a tantalite concentrate, and the Ngungaju Plant, located to the south and producing a spodumene concentrate.

The Wodgina Access Road to the Pilgangoora Mine Site is situated between Port Hedland and Mulga Downs in Western Australia's Pilbara Region. The road is currently unsealed and extends approximately 24 km from Great Northern Highway, where a new intersection will be required.

Client



Value

\$450K

Location

Pilbara, WA

Duration

2024 – 2025

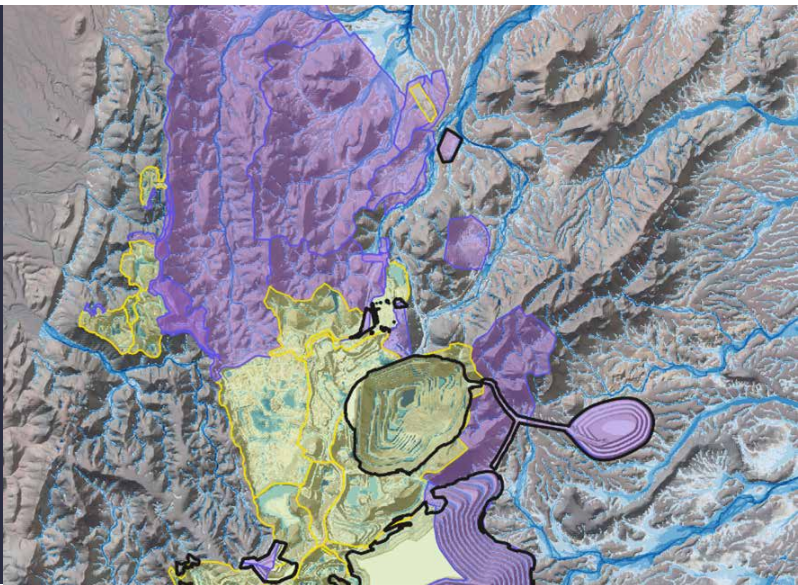
Our team completed a comprehensive surface water assessment to design floodways and culverts for five major creek crossings and 182 minor crossings.

The assessment was undertaken for the proposed Wyloo North transport alignment (132 km) located approximately 135 km west of Tom Price.

The surface water assessment used a variety of hydrologic methods to derive design flows that were used during hydraulic assessment, including regional methods (i.e. RFFP), RORB and an Initial Loss – Continuing Loss (IL-CL) model, which were validated to nearby gauged catchments. Climate change effects in the form of present-day warming were incorporated into the modelling in accordance with the latest version of Australian Rainfall and Runoff.

The floodway, culvert and geometric design outcomes were incorporated into a Multi Criteria Analysis and cost estimate to form part of a complex set of considerations for Fortescue to progress the project to the next design stage.

Surface and Water Assessment and Management



Haul Road Waterways Assessment



Client



Value

Undisclosed

Location

Goldfields, WA

Duration

2023

Conducting various Surface Water Assessments for MinRes’ lithium mines at Mount Marion and Wodgina.

Agilitus have been collaborating with MinRes to provide continuous advice on management of surface water at their lithium operations.

To facilitate the assessment of surface water impacts from proposed expansions at the mines, our hydrology team reviewed previous investigations, defined catchments, completed flood modelling scenarios of existing and post- development scenarios, identified potential risks to environmental receptors and project operations, and provided recommendations for mitigation of impacts, ongoing monitoring and wet season readiness.

Of particular interest at Mt Marion was the definition of mitigation options required to prevent inundation of an underground exploration portal within a proposed boxcut, involving consideration of a range of design flood events, bunding heights and potential pumping options for this new artificial catchment area.

Client



Value

\$450K

Location

Undisclosed

Duration

2020

Ensuring the continued safe operation of the process water dam by providing a reconfigured design.

An existing Rio Tinto haul road (HV56) facilitates HV and MME transport between Silvergrass and NBWT, however the existing crossing of Duck Creek is single lane and required upgrade for two-way traffic.

The crossing is immediately downstream of an existing LV road and conveyor, which complicated the design assessment.

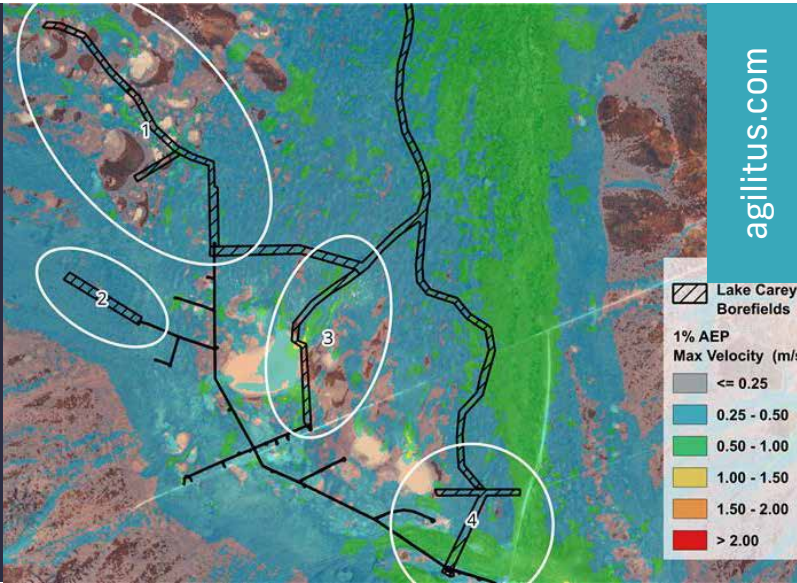
A RORB rainfall-runoff model and 2D TUFLOW hydraulic model were used to assess the performance of the existing crossing and design upgrade options.

Culvert upgrade solutions were designed to ensure both upstream and downstream afflux was managed to limit impacts to the serviceability of the LV and HV roads and the operation of the existing conveyor.

Surface Water Management Study



Lake Carey – Borefield Surface Water Assessment



Client

RioTinto

Value

\$150K

Location

Various locations, WA

Duration

2019

Our team carried out hydrologic and two-dimensional hydraulic modelling for the Port Hedland and Dampier sites to identify high-level risks to operation and corresponding risk mitigation options.

Dampier Salt engaged Agilitus to conduct Surface Water Management Order of Magnitude Study (OoM) to identify controls to reduce risks associated with rainfall and cyclone events as much as reasonably practicable.

Our team provided earthworks, hydrology and hydraulic modelling that allowed for optimisation of stormwater flows during rainfall events, identification of high-level risks to operation and their corresponding risk mitigation strategies at the Dampier, Port Hedland and Lake MacLeod sites.

The Study resulted in fit-for-purpose solutions to mitigate existing drainage and flood risk.

Client

 **GENESIS**
MINERALS LIMITED

Value

Undisclosed

Location

Undisclosed

Duration

2024

Development of a two-dimensional flood model to assess the flood risk associated with a water supply pipeline.

Our team were engaged by Genesis Minerals to execute a concept and detailed design for upgrading the existing borefields that supply raw water to the Jupiter Process Plant. As part of this, an investigation was undertaken to optimise the water supply from a new borefield, which required a Surface Water Assessment for the FY25 and FY26 borefield expansion.

Hydrology and hydraulic analysis were completed to identify surface water catchments draining to the proposed pipeline alignment and estimate baseline flood extents, depths and velocities for various flood events using 2D TUFLOW modelling.

Following this, advice was provided for the management of areas of the proposed alignment that are at risk of flooding

Iron Bridge Magnetite Access Road



Client



Value

Undisclosed

Location

Undisclosed

Duration

2019

Hydrologic, Hydraulic and Drainage Design Assessment for an access road connecting Great Northern Highway to the North Star Stage 2 Plant Area.

Agilitus was engaged by Fortescue on behalf of Iron Bridge Operations Pty Ltd to provide drainage and hydrology input to support the design and documentation for the proposed site access road from Great Northern Highway to the North Star Stage 2 Plant Area.

The investigation determined design flows from a hydrologic assessment which enabled the hydraulic design of 78 culvert crossings, 53 diversion drains, and two floodways.

Rainfall-runoff modelling was undertaken using RORB software adopting the Monte Carlo approach. Two-dimensional hydraulic modelling was undertaken using TUFLOW for the more complex floodways, whilst traditional one-dimensional methods were used to design the culverts and diversion drains.

Marble Bar Road



Client




Value

Undisclosed

Location

Pilbara, WA

Duration

2020

Development of hydrologic and hydraulic models to inform drainage design for Marble Bar Road upgrades between SLK 120.35 and SLK 218.15.

Geometric and drainage design solutions were developed for Marble Bar Road to upgrade the transport link between the Roy Hill McPhee Mine Site and the Roy Hill Hub.

A combination of factors led to the development of project specific design criteria. Some of these factors included low traffic volumes, remoteness of location, budgetary constraints, outcomes of site inspections and overall risk of hazards to road users.

A pragmatic approach to the drainage design was undertaken collaboratively with Main Roads WA Waterways Branch to simplify the drainage methodology given that 140 waterway crossings were initially identified.

The design of culverts and floodways was initially assessed against typical design criteria and resulted in excessive design outcomes that did not integrate well with the design geometry, nor align with observations of the existing conditions.

A project specific pragmatic approach was therefore applied. This focused on maintaining existing annual and minor flows and ensuring road survivability during periods of road overtopping, rather than designing floodways for specific design events. This approach was driven by hydrologic uncertainty, budgetary constraints and preference to limit road maintenance needs.

You're in good company

We work alongside many notable companies across Australia.



Technical excellence

We are passionate about leveraging our technical ingenuity to solve complex problems.

Technical excellence is the bedrock of our business. It drives our people and propels the outcomes we provide for clients, communities, asset owners and operators, and financiers.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.

A premium client experience

The success of our project work depends on leveraging the best expertise of our people. That's why we allocate the most qualified professionals to help realise our clients' development vision and bring their projects to life.

Our work is underpinned by strong engineering design principles, industry-leading technology and pragmatic advice to deliver exceptional outcomes, every time.

This approach provides the following benefits:

- Ease of understanding of regulatory frameworks
- Efficient navigation through the development approvals process
- Protection and preservation of our cultural heritage, the environment and waterways
- Healthy, transparent and trusted relationships are established with stakeholder groups
- Respectful liaison with Traditional Owners is undertaken
- Fair and equitable outcomes are achieved for First Nations' communities
- Project knowledge is retained, including lessons learned
- Innovation is embraced and deployed.

The quality and excellence of our work and ability to deliver the best technical and cost-effective solutions for our clients is guided by our Technical Leadership Team.

Technical Leadership Team

Led by the most senior members of our business, this team facilitates learning and knowledge transfer, professional collaboration and mentorship to drive continuous excellence in our technical capabilities. It also encourages our people to perform to high technical standards and rewards staff for incorporating innovation into projects.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.



Safety is at the heart of our business

Our diverse and culturally aware teams embrace safe work practices that are environmentally sound.

Safety is integral to everything we do at Agilitus. We care about our people, clients, and the communities in which we operate, and strive for zero harm in everything we do.

Health, safety and quality are embedded in our work practices, while heritage and sustainability are considered throughout the entire project life cycle.

We recognise the importance of continuously reviewing safety in design issues at all stages of a project, from investigation, design, construction, operation (including maintenance), closure and rehabilitation.

Exceeding regulatory obligations, we leverage a formalised Health, Safety, Environment and Quality Management framework that allows us to analyse and implement practical measures to mitigate risks.



Our vision is to be the most sought-after global multidiscipline engineering business; attracting and employing the best people with like-minded values while working on projects that make a difference to our communities.

We are **Engineering Amplified**

Let's talk about your project

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Leadership

- Understanding of client needs
- Technical Leadership Team governance
- Strong chartered presence
- Adherence to technical standards & regulatory instruments
- Committed to technical excellence
- Striving for low-carbon impacts



Systems

- ISO Accredited Quality Management System (QMS)
- Design assurance
- Engineering verification procedures
- Safety in Design
- Net Zero in Design
- Risk mitigation & management
- Project governance (action tracking, monitoring, performance and auditing)
- Continuous improvement (lessons learnt)



Characteristics

- Client centric
- Risk adverse
- Reliable
- Accountable
- Innovative
- Simplification
- Community and culture



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