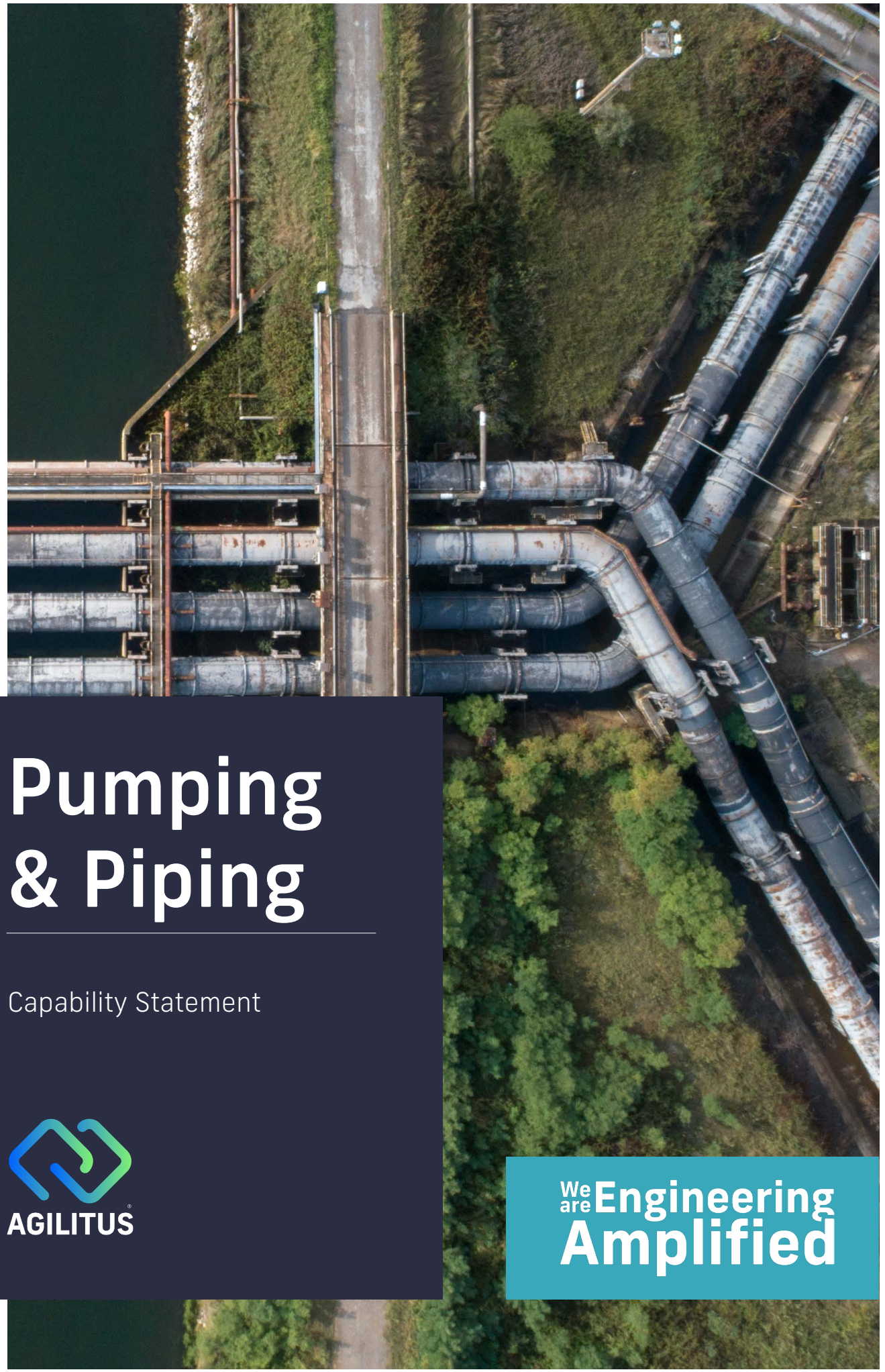




Pumping & Piping

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.



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.



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.



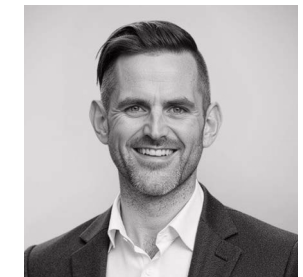
Gavin Wearne
Director – Ports and Marine
23+ years' experience

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



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.



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.



Jason Fong
Director – Geotechnical
30+ years' experience

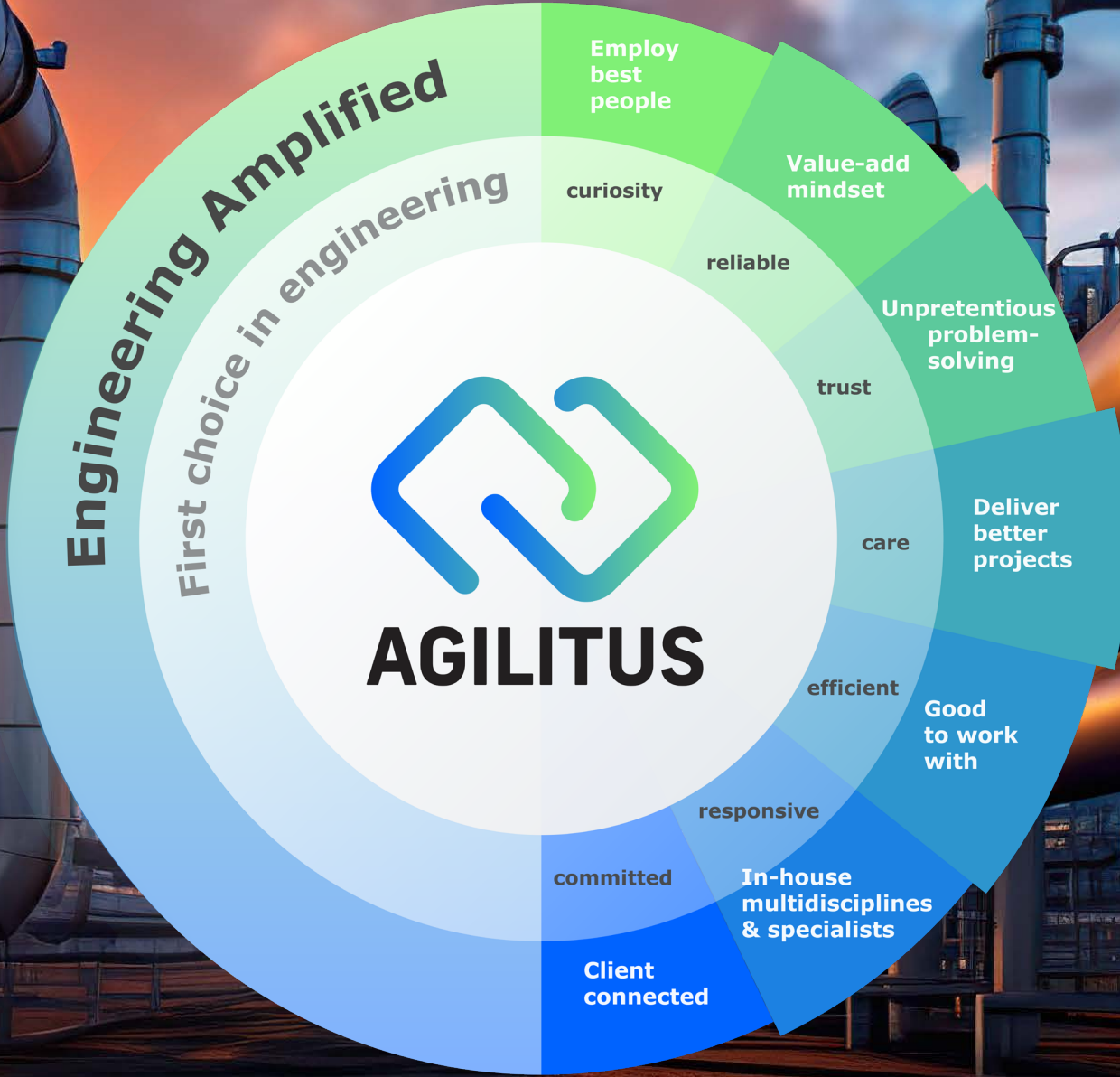
Agilitus has been built on finding innovative solutions, best fit solutions for problems that often a lot of our competitors haven't been able to solve.



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.

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 pumping & piping team



Tony Comerford
Technical Director
25+ years' experience

Experienced in technical engineering delivery, project, construction and commissioning management with a diverse background covering metals processing and refining, chemical plant, port facilities and industrial projects. Tony is experienced in alternative project contract delivery models from client and contractor delivery sides including alliances for sustaining capital and maintenance projects.



Sam Hattar
Discipline Lead, Mechanical
10+ years' experience

Experienced in managing projects, teams, equipment, and budgets effectively. Sam is proficient in managing and coordinating multiple disciplines and functional interfaces between major contractors and stakeholders within a global multidiscipline construction project, to mitigate risks. He has strong skills in electronics engineering, communications systems implementation and upgrade projects.



Jamie Cigulev
Regional Director WA
10+ years' experience

Experienced in conveyor, piping and non-process infrastructure in the iron ore, gold, rare earths, lithium and industrial chemical sectors. He has a broad range of skills in delivering a variety of brownfield design projects and managing multidisciplinary teams. Jamie's focus is on delivering projects which exceed the expectations of clients whilst meeting budget and schedule requirements.



Matt Moreland
Director Engineering
10+ years' experience

Experienced working in the mining, minerals processing and oil and gas industries. Matt has extensive experience in mechanical design, operations, maintenance, repair and upgrade of complex utility and processing equipment. He has undertaken projects for BHP, Rio Tinto and FMG; designing and constructing reagents packages, conveying systems, processing equipment and compressed air and gas separation packages.



Kieran Maher
National Design Manager (SMP)
16+ years' experience

Experienced in structural design and detail drafting experience across the commercial, industrial and mining industries. His experience includes on-site experience working with brownfields projects, producing detailed design drawings, as well as developing scopes and providing technical support to clients.



Gary Bingham
Design Manager
18+ years' experience

18 years of design, detailing and site experience. Gary has been exposed to a wide range of materials handling and wet plant operations, in both brownfield and greenfield projects. Gary is a strong advocate for smart and effective design which promotes operability and safety while working within strict budgets. His passion for technology in design enables him to meet and exceed client expectations through 3D modelling and visualisation.



Tony Daniel
Chief Operating Officer
10+ years' experience

Experienced in design and project engineering both in the engineering office and field environments. Tony's roles have included a broad range of activities in Greenfield and Brownfield contexts. He has undertaken field-based assignments that entail the management of multiple, concurrent sustaining capital and production improvement projects within operating facilities.



Mark Todd
Technical Director - Mechanical
22+ years' experience

Experienced in mechanical engineering spanning both operational and engineering design-based roles. Mark is an industry leader in the delivery of materials handling solutions. Mark strives to simplify mechanical systems ensuring the solution implemented is cost effective, easy to maintain and operate to provide the client with the best possible facility.



Todd Molloy
Lead Mechanical Engineer
17+ years' experience

Experienced in engineering, procurement and construction management (EPCM). Proven experience as a Structural/Mechanical/Piping (SMP) Field Engineer during the construction of a multi-billion dollar project. Todd has been involved in a variety of projects and roles from large scale iron plants through to infrastructure projects, pipelines and mine dewatering roles.



Michael Ullrich
Study Lead
25+ years' experience

Experienced in the mining industry including management and engineering roles. Michael has completed various mining operations including underground and open pit mining, processing and mining supporting infrastructure. Projects undertaken cover a wide range of commodities, including; most recently, iron ore and nickel, as well as gold, platinum, uranium, manganese, copper and coal.



Daniel Fullwood
Lead Mechanical Designer
15+ years' experience

Experienced in engineering design and project management of both brownfields and greenfields projects. He has effectively project managed operational support projects, from acquiring the task to completion and delivery. He has strong practical skills in structural, piping, mechanical and industrial project planning and design drafting.



Terrence Tarboton
Lead SMP Designer
38+ years' experience

Experienced providing mechanical design in various mineral and processing plants, with attention to detail and dedication to the task ensuring positive and professional outcomes.

Pumping and piping engineering and design for asset optimisation

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

Agilitus has a longstanding track record in brownfield and greenfield projects including detailed engineering design, assessment of existing pump and piping assets, construction support and process design.

Our experience spans the full suite of large bore water and slurry transfer projects including marine works, bore fields, raw water, wastewater, firewater and process water handling.

We use the latest technology, software applications and inhouse methodologies to complete complex calculations and analyses as required, depending on the individual project requirements.

Our team has a deep understanding of the potential issues with pumping system installations, having been involved with numerous plant commissioning and start-up activities, as well as investigation into pump operations.

Capabilities

- Slurry Pumping and Piping Systems
- Computational Fluid Dynamics (CFD)
- Process Water Pumping and Piping Systems
- Settling Velocity Calculations
- Network Analysis using Fluid Flow Software
- Site Troubleshooting
- Slurry Storage Tank Design
- Oxygen Injection Recirculation Circuits
- Thickening and Filtration Circuits
- Multistage Pumping Systems – Series and Parallel
- Chemical Storage and Dosing Systems
- Fire Water Systems
- Process Plant and Infrastructure
- Air, Water and Wastewater Services
- Gravity Flows and Launder Designs
- TSF Pumping System



Project phases

Our Pumping and Piping team offers services throughout the project life cycle covering concept, PFS, FS, Detailed Design through to construction and commission support.

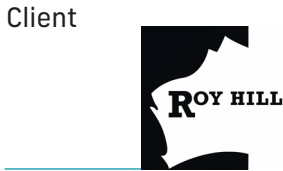
Capabilities

- Concept Studies
- Pre-Feasibility Studies
- Bankable Feasibility Studies
- Front End Engineering Design
- Detailed Design
- Independent Review
- Construction Support
- 2D & 3D Design

Ultrafines Detailed Design WHIMS 1.5



Hydrology and Waterways Study for Mine Road Upgrade



Client

Value
Undisclosed

Location
Newman, WA

Duration
2018, 2021 - 2023

Ultrafine recovery is extremely important for incremental tonnage costs, grade quality and extending the mine lifespan.

Agilitus provided detailed design to optimise ultrafine Hematite product recovery at the Roy Hill Processing Plant.

Our Mechanical team delivered pump designs, hoppers and tanks, piping support and piping and instrumentation diagrams. The new processing units required different process water consumption depending on the desired operating mode. We identified that the existing process water system was insufficient and required modifications.

Modifications included the addition of a new 1,200 kW process water pump to join the three existing that supply a DN1200 header pipe. This pipe supplies the WHIMS building with process water, before reducing to a DN500 header that supplies the WHIMS Expansion and Spirals buildings.

Our team also verified the pump selection and delivered the design for the new DN1200 and modifications to existing large bore pipework. Due to the complex desired operating capability, the entire process water system was hydraulically modelled across several scenarios.



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' Geotechnical and Civil teams have been working in a joint effort with Pilbara Minerals 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, produces a Spodumene concentrate and a Tantalite concentrate, and the Ngungaju Plant, located to the south and produces a Spodumene concentrate.

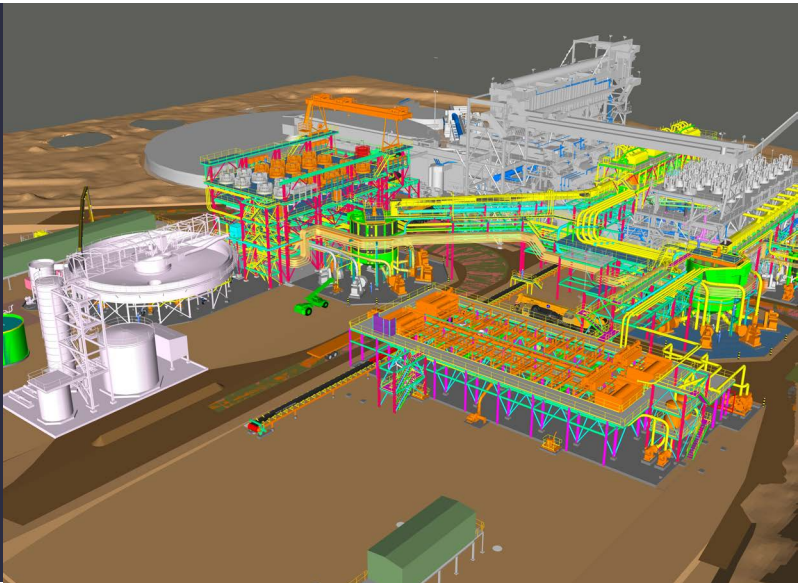
The Wodgina Access Road to the Pilgangoora Mine Site is situated between Port Hedland and Mulga Downs in Western Australia's Pilbara Region. The road is currently unsealed and extends approximately 24 km from Great Northern Highway, where a new intersection will be required.

The design scope involves upgrading 24 km of the Wodgina Road to a sealed road to facilitate increased haulage capacity via super quad road trains. This includes 11 major floodway crossings, 12 km of site access and haul roads, and a new intersection at Great Northern Highway.

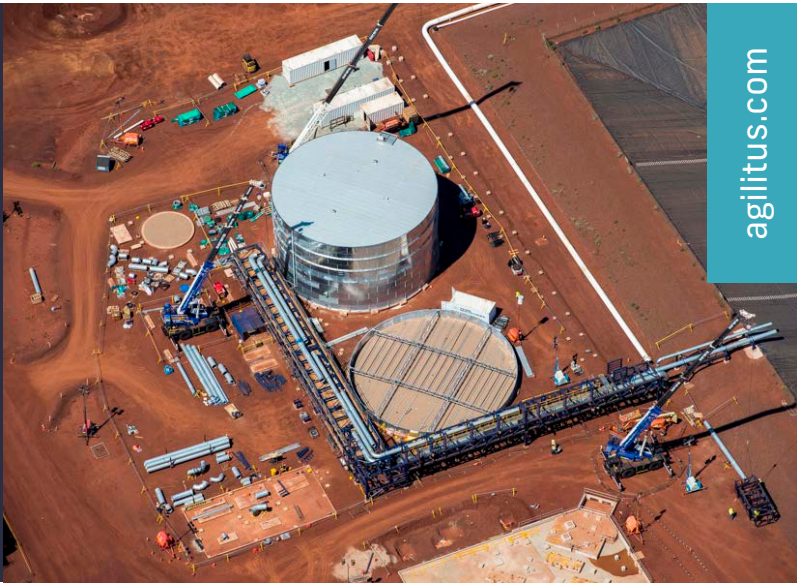
Our involvement initially commenced in Dec 2022 with completion expected in November 2023.

When complete, the road upgrade will improve the efficiency and safety of transporting critical minerals to Port Hedland to meet the increased demand for resources to enable the global transformation toward clean energy and a sustainable future.

PBO Tertiary Hydrocyclones Plant



Process Water System – Brownfield Debottlenecking



agilitus.com

Client

RioTinto

Value

\$7.5M

Location

Paraburdoo, Western Australia

Duration

2022 - 2023

To improve Processing Plant recovery, Rio Tinto required future recovery of high-grade SOP of the operational life in the Paraburdoo TSF.

Agilitus is executing the study for the proposed Tertiary Hydrocyclone Plant upgrade.

There is a significant opportunity to recover alternate size range particles from future plant feed. Recovering this material will decrease plant per/ton operation costs, increase production and reduce Life of Mine (LOM) TSF costs.

Installing this process infrastructure will also enable increased potential for future recovery of high-grade SOP that has been deposited over the course of the operational life in the Paraburdoo TSF.

The project aims to improve plant recovery, through improvement of fines production, reducing per ton operation costs and decreasing LOM capital costs.

Client

ROY HILL

Value

Undisclosed

Location

Undisclosed

Duration

Undisclosed

We were engaged to design a new process water system to complete Roy Hill's debottlenecking studies.

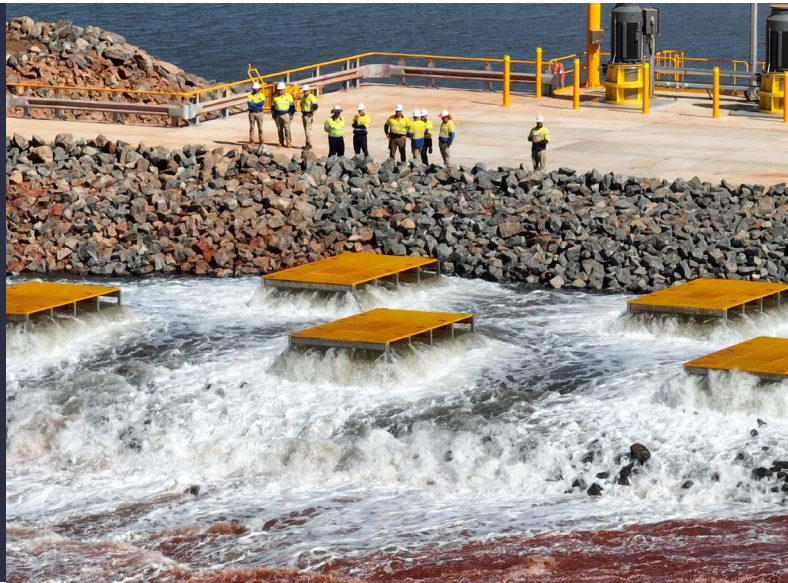
Further to completing a series of debottlenecking studies – to enable Roy Hill to achieve 60 Mtpa throughput at one of its processing plants – we were engaged to design a new process water system to support future demand.

The new system included tie-ins to existing borefields piping, a dam, a pump station, a return discharge arrangement, and interconnecting pipework ranging from small bore piping to DN1200 Galvanised steel.

The pump station consists of seven 1,200 kW pumps connected to three buried DN1200 pipelines (>750 m in length total) that feed two different processes within the plant. Tie-ins into existing underground piping, extension of existing distribution, new valve stations and new booster pumps were required.

The return arrangement comprises of >1.6 km of DN1000 distribution manifolds complete with expansion loops and a total of eighty DN300 discharge spigots.

Pump Transfer Station – Mardie Salt and Potash



Client



Value

Undisclosed

Location

Pilbara, WA

Duration

2021 – Ongoing

Delivering the detailed design of the pump transfer stations at the Mardie Salt and Potash Project.

We have supported BCI Minerals Limited in its development of the Mardie Salt and Potash Project, a sustainable opportunity to develop a large-scale, multi-generational solar evaporation operation on the Pilbara coast of Western Australia.

The facility utilises nine evaporation ponds across the site. Due to topographical constraints, gravity feed of the brine was not possible across all the seawater evaporation ponds. Agilitus was engaged to deliver the detailed design of the pump transfer stations.

Pump Station 2-3 consisted of three 250 kW pumps with a combined capacity of 25,000 m³ per hour feeding three DN1200 pipelines between Pond 2 and 3. Pump Station 3-4 included two 250 kW pumps capable of supplying 20,000 m³ per hour to two 300 m long buried DN1200 pipelines crossing underneath a flood plain.

The high saline environment was a challenge for material selection. Co-extruded High-Density Polyethylene (HDPE) was selected for the pipeline to maximise value as it is not susceptible to degradation by seawater brines, has a high UV degradation resistance and ease of installation / maintenance.

You're in good company

We work alongside many notable companies across Australia.



Technical excellence

We are passionate about leveraging their 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 world 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.



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

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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