



AGILITUS

SHAPING TOMORROW TOGETHER

SUMMER 2025 – ISSUE 01

IGNITE

Engineering Amplified

04 Our new name

Let us reintroduce ourselves

05 Why Agilitus

16 Our value

Collaborative multidiscipline teams

Our name has changed,
but our people haven't

agilitus.com



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's 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 multi-discipline 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

Image: Co-Founders; Tony Comerford & Craig Bloxham.

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A quick word...

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.

Our agility ensures we find solutions to complex problems. We design innovative, best fit solutions for challenges that many haven't been able to solve.

We are Engineering Amplified.



Revive Eco 100 is made with 100% recycled fibres and manufactured by an ISO 14001 certified mill. Revive Eco 100 is FSC® Certified and is produced with elemental chlorine free pulp from well-managed forests and controlled sources.

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About Agilitus

Agile in approach and collaborative at its core is the mainstay of the business. It's a mindset and way of being for the team.

Recognising traditional processes strip value from projects and people, Agilitus goes beyond constraining processes. It's designed to ensure nothing is compromised to deliver excellence. In keeping things simple and focusing on quality while employing the best people, the team has created a collaborative culture with an exceptional reputation.

"We are 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," said Craig.

Having all disciplines in-house means Agilitus takes advantage of leveraging different skills and expertise to create innovative client outcomes. This creates a sense of empowerment and freedom in ensuring the best outcome that fits the client's needs is delivered. Agilitus is not constrained. Rather, they openly challenge convention, if it means a better outcome is achieved. To have a questioning nature underpins their ability to execute good work.

"Success for us is delivering successful projects and it's a great place to work. We have both," said Gavin Wearne; Director, Ports & Marine.

Acknowledgement of Country

Agilitus acknowledges Aboriginal and Torres Strait Islander peoples as the first peoples of Australia and the Traditional Owners and Custodians of lands and waterways on which we work and live.

We honour the wisdom of, and pay respect to, Elders past and present, and we acknowledge the cultural authority of all Aboriginal and Torres Strait Islander peoples across Australia.

We also acknowledge the vital contribution made by our Aboriginal and Torres Strait Islander employees and we thank those who have guided our approach and generously shared their insights.

Image: Aboriginal artwork created by Jayda Sebire (Indigenous Artist and former Agilitus People and Culture Assistant). Copyright 2024, Jayda Sebire.

Our new name



"When we were exploring a new name, we wanted a word that represented how we work with clients," said Tony Comerford; Technical Director.

Agilitus is how the team demonstrates capability through adaption, being responsive to change, and nimble for efficiency.

Principally, Agilitus is speed to solutions. We consciously remove extra layers of unnecessary decision-making because we are confident in our solutions. The Agilitus team are empowered to explore how to maximise value during all project stages. It's the team's intrinsic ability to understand client objectives, through listening, and having all executives on the tools.

Agilitus is its ability to balance between decisiveness and quality customised solutions to achieve a return on investment.

More than anything, the brand is more than just a new name for the business. It signifies a way of being and celebrates a worthy milestone in its journey.

"Everything we do is customised, so it makes sense that we would want our own name that represents our distinction," said Craig Bloxham; Managing Director.

“Operationally I’ve always thought we were agile, so this name is perfect for us. Clients tell us we’re really agile when compared to others. Clients appreciate when you can be flexible with problem solving. That fosters a reliable, trusting partnership.” Matt Watts; Discipline Lead, Geotechnical

Operationally, this translates to entering new geolocations and industry sectors, to leverage the full skill set across all disciplines. It means the 100 per cent privately owned business can control its destiny.

"Because we can control our destiny, we can give our people that same thing. Our team make decisions close to the project which creates agility and results," said Tony.

While there has been a name change, the people haven't changed. This transformation means more of the exceptional work they already do.

Clients will benefit from an ever-expanding Australia-wide footprint, broader and more expertise in new service areas; the future is limitless.

The future is Agilitus.

More than anything, the brand is more than just a new name for the business. **It signifies a way of being and celebrates a worthy milestone in its journey.**

Why Agilitus

Our distinction

“We take accountability for our designs, we’re comfortable in demonstrating the strategic value in solutions.” Gavin Wearne; Director, Ports & Marine

Our mainstay is our technical excellence.

Our difference is our connectiveness.

The result is exceptional service.

We’re our clients’ trusted advisor.

Aside from technical excellence, clients tell us they come back because we are easy to work with. We don’t add to the complexity of the work, in fact the team focuses on removing it.

Unpretentious problem-solving engineering and project management.

Intrinsically aligned to client needs, as if the project was their own and no matter the complexity, Agilitus gets it done. Delivering client value both financially and with superior engineering design solutions is a mark of team success. It’s why clients respect and trust the long-term relationships they build.

Trust has been earned by consistent delivery of quality, technically superior outcomes, across a transparent and collaborative process.

“We think whole-of-life, not just compliance. Our clients come back to us because they want solutions that find a balance between Capex and Opex for infrastructure,” said Jason Fong; Director, Transport.

Returning clients is a testament to the collaborative approach and demonstrates their way of doing business works.

“We know when we test traditional process, the result is courageous solutions. Again and again, we’ve proven we add value to projects. This gives clients more assurance and lowers the project risk profile, all because we get heavily involved. Internally we are empowered to suggest new ways and we welcome accountability. That’s why we are successful, it’s gives clients more assurance on the final solutions,” said Rhys Ledger; Discipline Lead, Electrical.

Sitting down with clients to understand drivers of success is fundamental but that approach is integrated with the team throughout the project lifecycle. This also includes being focused on giving clients what they need which sometimes is not what they originally asked for.

“We take accountability for our designs, we’re comfortable in demonstrating the strategic value in solutions which sometimes means we need to stand back to holistically review the entire scenario,” said Gavin Wearne; Director, Ports & Marine.

True to its core point of difference is understanding not all engineering businesses can deliver quality work and be good to work with – that’s the Agilitus difference.

A genuine commitment to solving clients’ problems and optimising solutions. That’s why clients choose Agilitus.

“A successful project is where both the project and the client team enjoy the process. Having robust respectful conversations that challenge ourselves to deliver stronger outcomes beyond client expectations.”

“When you break it all down, the one key thing is we deliver on promises and have a strong partnership mentality,” said Tony Comerford; Technical Director.

That’s how Agilitus works together, and with clients; to leverage more powerful outcomes than originally expected. That’s what drives the team. A sense of achievement by challenging conventional engineering design, resulting in smarter infrastructure and services.

To assume a client perspective; to understand their complex problems as if they were our own. That’s what motivates the Agilitus team, and enthusiasm for achieving a customised solution that isn’t over-engineered, rather meets the exact client needs and more.

This is only achieved because Agilitus hire the best people.

“We have a diverse range of highly skilled professionals who bring technical excellence and a broad range of experience to client projects. We’re encouraged and supported to think outside of the box, to deliver the best engineering and project delivery solutions. We are agile and willing to make quick decisions to implement value adding ideas that contribute improvements in the way we service our clients, that’s genuinely unique,” said Darran Starbuck; Design Manager.

To achieve this Bianca Taylor, General Manager of People and Culture says it’s a combination of exceptional technical skills and a caring attitude. “We get to know who our clients are, to know what they need, to find solutions. That is built on a relationship of trust. Where a client can come to you and share a problem. To know they value our opinion.”

“Our team and how we work together is our difference. We have technical specialists across all engineering disciplines, but everyone can work across projects to add value. Having a multidisciplinary team that respects each other’s input is what truly works. Our team feel included and empowered by these opportunities and advancement. This enhances outcomes for clients because they access the whole skillset of Agilitus,” said Tony Comerford; Technical Director.

“We’re easy to work with, we’re collaborative. We align our goals and objectives with the client’s priorities.” Tony Daniel; Regional Manager (Western Australia)

Our vision

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

Our agility ensures we find solutions to complex problems. We design innovative, best fit solutions for challenges that many haven't been able to solve.

We are **Engineering Amplified**.

Multidisciplinary leadership team

♥♥ Our team **deliver exceptional solutions, but even more importantly, we regularly hear clients enjoy working with our people.** It's not just because we have the technical skills, that's a given. It's because **we select team members that live our core values, and listen to understand and respect our client's needs.** It's about **caring for the project and the people involved to achieve a solution.** We are truly part of our clients team. ♥♥

Bianca Taylor; General Manager, People & Culture



Craig Bloxham

Managing Director & Co-Founder

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.

As one of the founding principals, Craig is responsible for managing, growing and diversifying the business to drive improved financial performance, robust corporate governance and positive health, safety and community outcomes.

Driven by a desire for Agilitus to be one of the pre-eminent trusted advisors, Craig leverages his considerable experience in leading major infrastructure projects to fulfil the company's growth and ESG ambitions.

He was the Delivery Director for the \$10 billion Roy Hill iron ore project, in the Pilbara region of Western Australia (WA). He served as the Project Director – Infrastructure for this mega-scale Greenfields development, managing all the early works packages for the aerodrome, access roads, bulk earthworks, utilities (power, water and backbone communications) and NPI facilities.

Prior to this, Craig spent 20 years at AECOM, commencing as a graduate civil engineer, and progressing through several roles to become the Regional Managing Director for WA and the Northern Territory. His diverse experience in engineering, contracting and major projects has contributed to building a unique blend of management and delivery skills.

Craig is the Chair of Agilitus' Executive Leadership Team (ELT) and Investment Group, and a Member of the Remuneration Group, Aboriginal and Torres Strait Islander Advisory Council and Reconciliation Action Plan (RAP) Working Group. He holds a Master's Degree in Engineering Sciences and a Bachelor's Degree in Engineering (Civil), from James Cook University in QLD.

Tony Comerford

Technical Director & Co-Founder

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.**



With more than 35 years' experience, Tony manages the technical delivery of projects for Agilitus' clients, in the fast-paced Resources, Energy and Industrial sectors.

He is one of the Co-Founders of the company and manages a team of highly experienced professionals, on both the East and West Coasts of Australia.

Tony sets the technical and engineering standards for client engagements, which spans conceptual design, detailed design, documentation, project management, construction management and commissioning of complex, multidisciplinary Greenfield and Brownfield projects.

He draws on this experience, coupled with his expertise in metals processing and refining, chemical plants, port facilities and industrial operations, to deliver tangible and measurable value to clients.

Prior to Agilitus, Tony held senior engineering and project management roles at Roy Hill, AECOM and Queensland Nickel.

Tony is the Chair of the company's Technical Leadership Team (TLT), and a valued Member of the ELT, Remuneration Group, Audit & Risk Group and the Aboriginal and Torres Strait Islander Advisory Council, and is a RAP Champion at Agilitus. He is a Chartered Professional Engineer and Registered Professional Engineer in QLD, and holds a Bachelor's Degree in Engineering (Mechanical) from the University of Southern QLD.



Bianca Taylor

General Manager, People & Culture

A **balance of high performance and inclusivity** is important to continually achieve results. This is **driven by a collective team approach with empowerment at the forefront.**

As a Director on the Agilitus Board, Bianca leads the People & Culture team for Agilitus. With more than 15 years' experience in the Oil & Gas and Resources sectors, she is focused on creating a high performance and inclusive culture.

Throughout her career, Bianca has held national roles and has been responsible for developing and delivering P&C and IR strategies for large teams. Her expertise includes talent acquisition, organisational development, conflict resolution, remuneration strategy, Indigenous recruitment and workforce management, learning and development, change management, and legal compliance.

Since joining in 2021, Bianca has built the P&C team to deliver and implement solutions tailored to the business needs across a variety of functions including, strategic leadership, talent management, employee relations, remuneration and benefits, and risk and governance, of which all have resulted in a highly effective culture. Under this leadership and approach Agilitus continues to thrive and achieve its strategic ambitions.

She is the Chair of the company's Remuneration Group, RAP Working Group, and Inclusion, Diversity, and Equity Sub-Group, and a valued Member of the ELT. Bianca holds a Graduate Certificate in Human Resources Management from RMIT and Diplomas in Human Resources and Management.





Gavin Wearne

Director, Ports & Marine

Gavin is responsible for the growth of the Agilitus East Coast operations as well as our well-regarded Ports and Marine practice, managing a large team of clever and committed professionals.

Dedicated to solving complex challenges for our clients, Gavin leverages his rich and diverse capabilities in the planning, design and construction management of port facilities, marine infrastructure and coastal works.

With more than 20 years' experience in the maritime industry, Gavin's technical competencies lie in ocean and coastal engineering, and in numerical modelling, physical modelling, metocean criteria determination, full bridge ship handling simulation, mooring analysis and coastal protection structures design.

He has led several multidisciplinary feasibility studies for port export facilities including the West Pilbara Iron Ore Project, Balla Balla Infrastructure Project and Stanley Point Berth 3 Port Expansion.

Prior to Agilitus, Gavin spent almost 14 years at AECOM. He is an advocate of using the latest technology and developing value-engineered solutions to optimise the transportation and distribution of commodities, materials and people.

Gavin is a proactive Member of the company's ELT and the Inclusion, Diversity and Equity Sub-Group. He holds Bachelor's Degrees in Engineering (Environmental) and Commerce from the University of Western Australia and is a Member of Engineers Australia.

Jason Fong

Director, Transport

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.**

Jason leads the growing Ground Engineering Agilitus practice, including developing and delivering fit-for-purpose technical solutions for clients in the Resources, Energy and Industrial sectors.

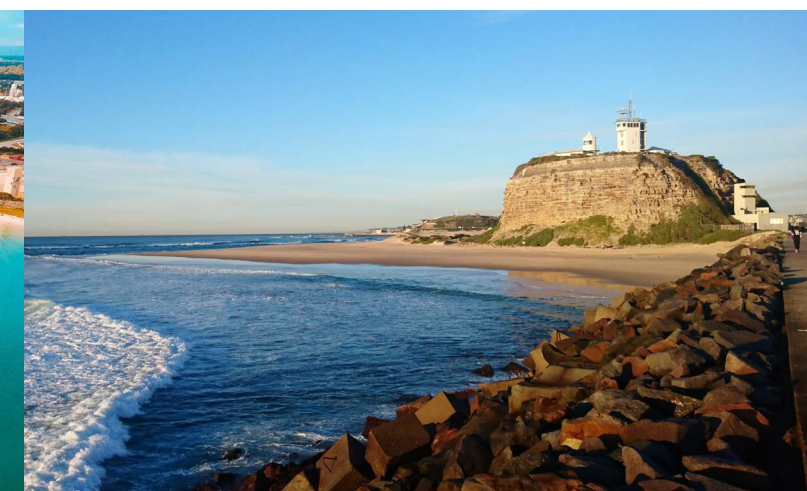
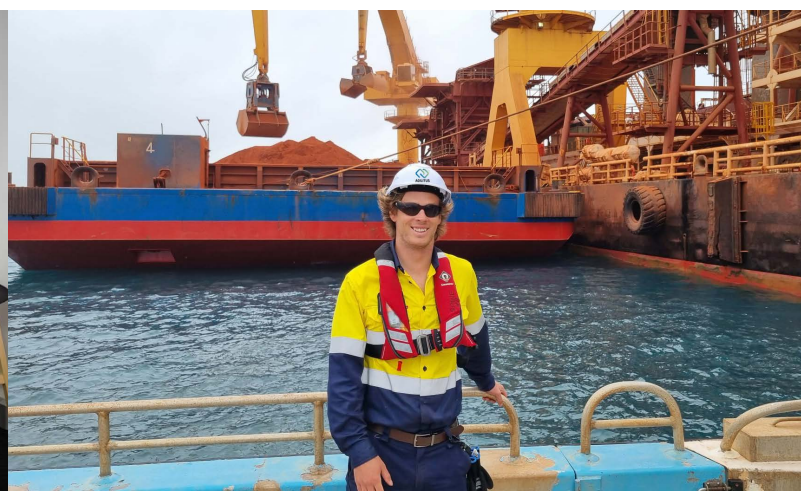
With a career spanning more than 30 years – across Australia, Indonesia and Singapore – Jason is an experienced geotechnical engineer. He is skilled at developing business strategies, leading multidisciplinary teams and managing projects for some of the world's leading mining, minerals, oil & gas, and industrial companies, as well as working with utility providers and defence organisations.

Jason is highly sought after for his expertise in ground engineering and for his ability to collaborate with a diverse range of industry specialists in strategic asset management, water supply and water resources, GIS, tailing storage facilities, mine closure and rehabilitation, and community and stakeholder engagement, including First Nations.



Prior to Agilitus, Jason held senior technical leadership roles with major multidisciplinary consulting companies. He has served as a design lead and project director on major infrastructure developments covering all phases of the project lifecycle – from planning and site investigation to design, construction, operations, closure and rehabilitation.

Jason is a Member of the company's ELT and holds a Bachelor's Degree in Environmental Engineering, is a Chartered Professional Engineer, Registered Professional Engineer QLD and Fellow of the Institution of Engineers Australia. He is recognised for his capabilities in civil engineering, geotechnical engineering, management and leadership.



Tony Daniel

Regional Manager (Western Australia)

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.** This is the reason why **we have long-term relationships and significant repeat business with clients.**

With more than two decades of engineering expertise, Tony oversees Agilitus' Western Australia operations and manages multiple sustaining capital and production improvement projects. This includes management of master service contracts in the resources sector, generating more than \$50 million annually.

Throughout his career, Tony has been involved in a diverse range of activities in both Greenfield and Brownfield projects, focusing on engineering, procurement, and project management. Before joining Agilitus, Tony held key project and engineering positions at Wood, AECOM, UGL, Water Corporation, and WMC Resources.

As one of Agilitus' first employees in 2018, Tony has been a cornerstone of the businesses journey. Starting as Lead Mechanical Engineer, he was quickly promoted to Program Manager and General Manager of our Sustaining Capital division, before commencing as Regional Manager in early 2025.



Tony's can-do attitude fosters a supportive and collaborative culture. He drives successful project outcomes and promotes an innovative mindset which encourages continuous learning and development.

His impressive portfolio includes large-scale projects such as the Hope Downs 4 Primary Crusher Structural Upgrade, which was nominated for Engineers Australia Project of the Year (2023). He also was instrumental in completing the 25km Overland Conveyor Belt change-out at Rio Tinto's Western Turner Syncline operations, 54 hours ahead of schedule.

Tony is a Member of the ELT and holds a Bachelor of Engineering (Mechanical) from the University of Western Australia. As a Chartered Professional Engineer, he is recognised for his capabilities in mechanical engineering, leadership, and management.



Jamie Little

General Manager, Commercial

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.

Jamie brings more than 20 years' experience in managing the commercial aspects of projects and operations gained from the Resources, Energy and Industrial sectors. He specialises in engineering, procurement and construction management (EPCM) engagements, contract negotiations, project controls, insurance, supply chain management, governance, operational efficiency and measurable project success.

His experience encompasses robust commercial management of energy, operations and maintenance (O&M), sustaining capital and non-process infrastructure (NPI) projects.

Jamie is highly skilled in strategic planning, budgeting, forecasting and project finance, as well as working with disparate sets of data to build holistic business tools to help inform decision making.

He cultivates highly efficient and organised teams, while adding value for both internal and external stakeholders through effective collaboration, risk management, and strategic opportunity identification.

Before joining Agilitus, Jamie held commercial roles at NRW Holdings (formerly Primero Group), Civmec, ABB, Southern Cross Electrical Engineering and JSE Electrical & Communications.

Jamie is a proactive Member of the Executive Leadership Team and Chair of the Audit & Risk Group. His comprehensive studies in law, undertaken at Edith Cowan University, help strengthen our commercial management achieving our strategic objectives.

Our core purpose

We exist to provide quality, customised technical engineering solutions.

For Agilitus, success is achieved by adding value when solving a client problem and then going beyond.

“Clients tell us they are happy with the service they receive in terms of predictability, reliability, and value for money. These are our core indicators of excellent customer service,” said Craig Bloxham; Managing Director.

“Our whole mission is to deliver projects better than anyone else. That centres on how we work with each other and our clients. We get along, we have the hard discussions, we tailor, we come up with custom solutions. It’s just what we do to be successful for everyone involved.”

Agilitus is in the business of shared success, internally and externally.

💡 We’re in the **business of problem solving** for our clients and delivering value. Our team is empowered therefore they’re invested in the end outcome and clients know we’ve got their back. 💡

Craig Bloxham; Managing Director



“We want our clients to win. Then we win and solve complex project challenges. It’s mutually beneficial. When we do this our people win. They gain experience, are exposed to different complexities, and secure more opportunities,” said Tony Daniel; Regional Manager (Western Australia).

“Fundamentally we work with clients to find, design, and deliver solutions that have the lowest lifetime cost and provide the most reliable technical outcomes. While trying to achieve the lowest emissions or the best environmental outcomes,” said Nathan Tinline; Discipline Lead, Energy Innovation.

Image on the top right : Lucy Nguyen at Cape Lambert Port Facility, Karratha WA.

Our value

Our teams leverage technical ingenuity across the entire project lifecycle to help clients realise their development vision.

This includes:

- mitigating risk
- improving safety
- minimising operational disruptions
- optimising asset performance
- connecting to infrastructure and freight networks
- navigating statutory approvals
- enhancing a project’s social license

While making projects bankable and increasing value for stakeholders.



“When Agilitus is on your project, you’ve got the entire team contributing as much as they can. That’s how our clients achieve powerful results,” said Craig Bloxham; Managing Director.

According to Agilitus, this is how they have built earned trust with clients. This is further enhanced with the proximity of its in-house multidisciplinary teams. It’s this powerful proposition of maximising teamwork that achieves significant client value.

“Each engineering discipline is within arm’s reach of one another. In practice we have a conversation over a project to capitalise on the talent in the room. This helps in being agile while providing something practical and effective,” said Tony Comerford; Technical Director.

It is the Agilitus way of doing business with clear, honest communication.

“Whether it’s good or bad news, transparency is critical with a willingness to work through challenges as they come up. This keeps the projects moving. There are no straight lines in this line of work but if you approach it with an open mind the project benefits,” said Tony Daniel; Regional Manager (Western Australia).

Agilitus produces better results for clients in a mutually beneficial way, with outcomes exceeding the cost for our services.

“It’s how we think, the big picture of the project holistically. How can we add value without costing any extra money for what we’re trying to achieve. It’s about thinking smarter and outside the box. Exceeding the return on investment,” said Keith O’Connor; Discipline Lead, Structural.

“Our value is our industry recognised team. The people we’ve got here have significant experience and a solid reputation for delivering good project outcomes for clients,” said Matt Watts; Discipline Lead, Geotechnical.

“The last multinational company I was with the wheels moved very slowly. That’s what sets us apart. We make quality decisions quickly, which is really good. It’s also our culture of bringing commitment and enthusiasm to everything we do,” said Darran Starbuck; Design Manager.

Image above: Steve Ash and Kanishka Pathirana at Paraburdoo Train Load Out Facility, Pilbara WA.



Services

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

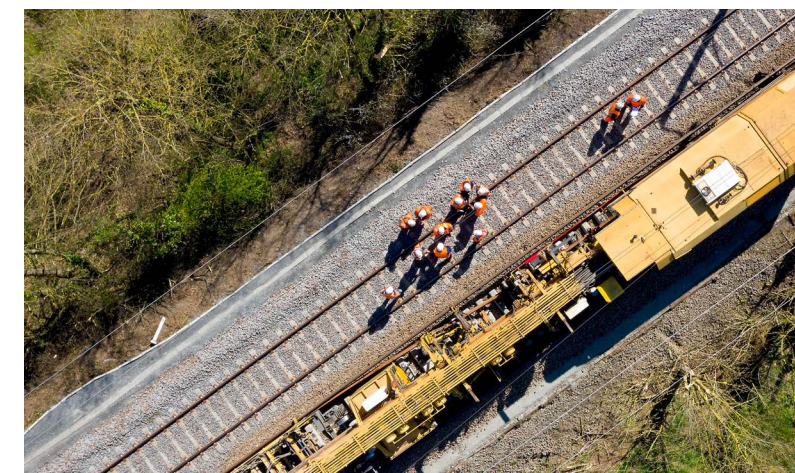
Agilitus offers a range of services to meet any project's most stringent requirements across the entire lifecycle.

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, 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.

Services

- Advisory (Environmental, Social and Governance)
- Asset Management
- Civil Engineering
- Coastal Engineering
- Decarbonisation
- Desalination
- Design and Technology
- Digital Consulting
- Electrical Engineering
- Energy
- Ground Engineering
- Heavy Haul Rail Engineering
- HSEQ Solutions for Asset Optimisation and Risk Mitigation
- Hydrology and Water
- Mechanical Engineering
- Ports and Marine Engineering
- Process Engineering
- Project Delivery
- Pumping and Piping Engineering
- Structural Engineering
- Tailings Management, Mine Closures and Rehabilitation



Bridge engineering

Offering comprehensive bridge engineering services, from planning and design to construction, repair, and asset management.



Expertise Across the Full Bridge Lifecycle

Agilitus offers end-to-end bridge engineering solutions, covering all stages of a project, from initial planning and design to construction, repair, and asset management. Our team's experience spans complex highway structures, rail crossings, and marine and pedestrian bridges, allowing us to tackle a wide variety of bridge-related challenges. We pride ourselves on providing high-quality, practical engineering solutions, ensuring each project is completed on time, within budget, and compliant with all technical and regulatory requirements.

Collaborative, Multidisciplinary Approach

We work closely with specialists from diverse disciplines, such as geotechnical, hydrology, and tunnel engineering, to ensure a holistic and integrated approach to every project. This collaboration enables us to address the full range of requirements, including foundation design, soil-structure interaction, and hydraulic analysis. Additionally we offer services including temporary works design, independent certification, and contract administration, to support clients at every stage, ensuring seamless execution and optimal project delivery.

Building a Legacy of Successful Projects

With decades of combined experience, our team has successfully managed and delivered major bridge projects across Australia. Agilitus brings together seasoned professionals who have been involved in designing, assessing, and constructing critical infrastructure. We are committed to expanding our presence in the bridge sector while leveraging our extensive knowledge to deliver innovative and sustainable solutions to meet the evolving needs of our clients.

Key Capabilities

- Planning and Design
- Proof Engineering, Independent Certification
- Remediation and Strengthening
- Construction Engineering
- Temporary Works Design
- Contract Administration and Supervision
- Asset Management
- Condition Assessment
- Feasibility Studies



Yarraman Road Portion Upgrade

Client: Glencore

Agilitus were engaged by Glencore to provide Independent Verification for the construction of Upgrades to Yarraman Road associated with the Mangoola Coal Continued Operations (MCCO).

Yarraman Road currently crosses Wybong Creek through a low-level causeway which is frequently overtopped and requires a steep descent through a series of tight bends to cross. The new bridge would improve access and serviceability for traffic using Yarraman Road and is a required piece of infrastructure to cater for future industries operating in the area.

The Scope of Works included a new bridge with 3-spans at 33m each and an overall deck length of 102m, which included 4 x 1.5m deep precast Super-T girders per span.

The project delivered all associated road and drainage works to seamlessly tie-in to the existing road. Agilitus' Civil Team provided construction support through developing the QA Management Plan, reviewing contractor methodologies and ITPs, attending site to sign off on key hold points, providing technical input to RFIs, assessing NCRs and liaising with Muswellbrook City Council.

With a proactive client, a competent contractor and a positive workplace culture, the project successfully achieved practical completion. It was completed within the dedicated timeframe, with no major non-conformances or safety incidents and a positive relationship between stakeholders maintained.



Matthew Rooney
Principal Structural Engineer

We combine our expertise in structural design, geotechnical analysis, and construction support to deliver practical, integrated solutions for both major infrastructure and regional bridge projects across Australia.

Matthew has more than 16 years of experience specialising in infrastructure, including bridges, maritime, and industrial structures. He has led major projects such as the Roe Highway/Great Eastern Highway Interchange Bridge 1661. As project lead for the Main Roads WA ETS Bridge Maintenance Contract, he has overseen the replacement, upgrade, and assessment of over 200 bridges throughout the state, developing innovative rehabilitation solutions for structures.

Civil engineering



Agilitus offers a full suite of services within the civil engineering sector, including bulk earthworks design, roadwork design, storm water design, utility services design, traffic engineering and contract management.

The team specialises in the optimisation of bulk earthworks and provide design, documentation and construction support services on all aspects of road infrastructure. In particular, the team has been significantly involved in numerous mining projects in the Pilbara Region of Western Australia for the development of heavy haulage iron ore railways.

Key Capabilities

- Civil Works including Bulk Earthworks
- Rail and Associated Infrastructure and Systems
- Access Roads
- Flood Studies and Waterways Assessments
- Hydrology & Flood Protection Design
- Non-Process Infrastructure (NPI)
- Heavy Haul Roads and Access Roads
- Guide Bank and Rock Protection Design/ Documentation
- Bore Field and Water Supply
- Hydraulic Structures and Underground Services
- Construction Phase Support

Image above: Onslow Iron, Pilbara WA.

“We’re great at connecting with different stakeholders, making sure everyone is on the same page and working together smoothly.” Brad Thomas; Discipline Lead, Civil



Odysseus Underground Mine

Client: IGO Limited

We provided quality services, civil engineering, and site-based construction support for the Odysseus Underground Mine.

Currently being developed by IGO Limited, the mine is located at the Cosmos Nickel Project, 30 km from Leinster in Western Australia.

Once in production, the mine will deliver high-quality nickel concentrates to the global market. It is among the few nickel sulphide projects entering production to meet the rising demand for nickel used in Electric Vehicle (EV) batteries.

We leveraged our expertise in risk management, quality frameworks, compliance processes, and investigative techniques to enable IGO Limited to eliminate harm, reduce risk and achieve organisational quality outcomes.

Our teams undertook an extensive Quality Assurance and Quality Control (QA / QC) review and provided a framework to IGO for implementation.

On the ground, our civil engineering professionals were involved in developing the LV and HV access road design for the NPI area. We also supplied secondment personnel to fulfil superintendent, project engineering and quality management roles.

Image on the left: IGO Cosmos Nickel Mine, Courtesy of IGO Limited.



Brad Thomas

Discipline Lead, Civil

We make design solutions better, this means minimising waste, saving costs, or reducing our footprint on the land. It's about making a real difference for the future.

We are experts in designing sustainable solutions that minimise waste, costs, and the footprint on the land. Whether it's reducing waste, cutting costs, or preserving land for the future, we're committed to making a positive impact through our expertise in civil engineering. By integrating our civil, hydrology and geotechnical experts, we are ready to support our client's team no matter the project stage. This integrated approach ensures smooth communication between specialisations and allows us to offer our clients detailed insights across multiple areas. We function as part of our client's team to simplify processes throughout the project lifecycle.

Coastal engineering

We offer expertise in the characterisation of marine site conditions for the optimal design of coastal infrastructure and assist our clients in deciding on cost effective solutions.

Agilitus provides expert coastal and marine engineering services, offering site investigations, climate risk advisory, and design studies. We deliver resilient, cost-effective solutions for coastal infrastructure, including ports, jetties, breakwaters, and protection strategies, ensuring sustainability and environmental safeguarding.

Key Capabilities

Planning

- Stakeholder Engagement
- Site Identification and Selection
- Master Planning
- Climate Risk and Resilience Advisory

Marine Site Investigations

- Specifications and Interpretations
- Hydrographic Surveys
- Geotechnical Geophysical Investigations
- Metocean Investigations
- Design Criteria Determination

Design Studies

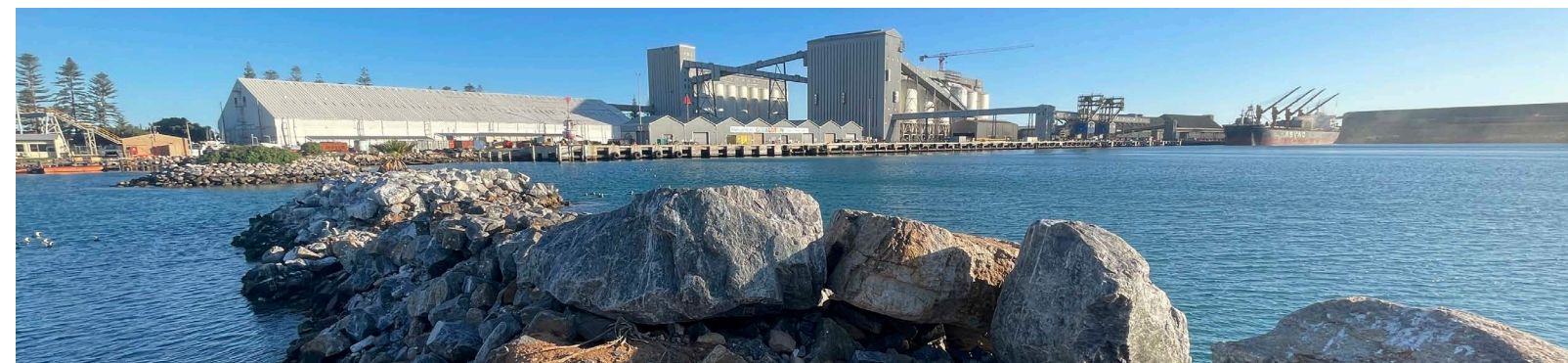
- Numerical Modelling – Winds, Waves, Circulation and Sediment
- Physical Modelling
- Coastal Impact Assessments, Hazard Definition Studies and Hazard Assessment Strategies
- Coastal Processes
- Wind, Wave and Water Level
- Cyclone and Storm Surge
- Harbour Wave Penetration and Tranquility Studies
- Wave Overtopping Assessments
- Wave Forces on Caissons and Piled Structures
- Current Induced Scour Assessments

Maritime & Coastal Engineering

- Navigation Channels, Dredging and Reclamation
- Marine Structures including Jetties, Bridges, Wharves, Ro-Ro, Barge Ramps and other boating facilities
- Coastal Protection including Breakwaters, Revetments, Causeways, Seawalls, Geotextile Sand Containers and Temporary Protection

Cartography and Drafting

- Marine Cartography, Digitising and Mapping
- Interpretation and Analysis of Hydrographic and Topographic Surveys
- 3D Terrain Modelling and Volume Calculations
- Civil Drafting for Maritime Works
- Tender Drawings and Cartographic Presentations



Geraldton Port Maximisation Project (PMaxP)

Client: Mid-West Port Authority (MWPA)

Delivered over four years, PMaxP is designed to facilitate growth, increase trade and provide future resilience to inundation from wave overtopping, storm surge, flooding and erosion of beaches through coastal protection structures.

In May 2022, the State Government announced its investment into MWPA's PMaxP in response to growing demand from industry in the region.

The \$350 million infrastructure project will enable MWPA to facilitate diverse and emerging trade opportunities and significantly increase throughput capacity over the next 10 years.

In September 2022, Agilitus was engaged to provide EPCM project delivery services.

Our teams have made great progress, advancing to detailed design of the new harbour breakwater, tug harbour revetments and seawalls.

Adam Bartle

Discipline Lead, Coastal

Providing detailed inspections and comprehensive assessments of coastal assets to ensure their long-term health and performance. We develop customised remediation strategies, balancing factors such as sustainability, safety, cost, and operational impact to minimise downtime and extend asset life.

Adam has more than 19 years of experience in Coastal and Maritime engineering, with expertise in both technical and project management roles. He has managed projects ranging from \$1M to \$150M, including tug harbours, dredging, breakwater construction, and mooring structure replacements. His technical work covers design, project implementation, on-site supervision, and remediation of coastal structures, as well as dredging studies, tendering, and contractor management.



Decarbonisation

Providing exceptional engineering solutions for energy generation and supply that optimise value and help decarbonise operations.

Our Energy team's pragmatic approach enables us to reduce capital expenditure in both energy generation and supply while achieving an overall reduction in Levelised Cost of Energy.

We design solutions to minimise risk in system reliability and energy supply while managing both short and long term uncertainty in energy pricing, technology development and regulatory requirements.

Utilising Net Zero in Design™ (NZiD™), we successfully navigate the rapidly evolving technology and regulatory landscape to provide a clear strategy to Net Zero.

From mining, industrial and energy – Agilitus delivers world-class engineering to assist clients in optimising the performance of assets, increase productivity, improve safety and create positive ESG outcomes.

As the Energy sector moves through an unprecedented level of change and development, Agilitus performs as a trusted partner to capitalise on the opportunities available while managing the ever increasing risks.

With a strong team containing a diverse range of skills and experience, we offer services throughout a project lifecycle covering Concept, Pre-Feasibility, Feasibility, Detailed Design, Delivery and Construction Management.

Key Capabilities

Advisory

- Energy and Power Option Studies (Demand, Generation, Centralised and Decentralised Systems)
- Energy Resource & Technology Studies
- Risk Management (Supply & Contractual Risk)
- Market & Commercial Advisory (Inc. PPA, BOO & EPC)
- Demand Side Management, Energy Efficiency & Auditing

- Lifecycle Assessments, Decarbonisation & Net Zero Strategies
- Regulatory Advisory Services for Energy Supply and Carbon Emissions (incl. Safeguard Mechanism, NGER Reporting, STCs, LGCs)
- Governance Advisory Services
- Life of Project Energy Management Plans
- Life of Project Decarbonisation Plans

Technology Experience

- Solar PV, Wind, H2, BESS, Hydropower, Biofuels, Thermal, etc.
- Scaling from kVA to GVA and kWh to TWh

Engineering & Design

- Standalone Power, Remote Area Power, Hybrid Power & Microgrid Solutions
- Energy Generation, Storage, Distribution & Monitoring
- Electrification, Energy Transition & Technology Integration
- Total Energy Optimisation (TESO) & NZiD™
- CEC Accredited Design & Installation of Grid Connected & Standalone Power Systems
- Network Connections & Transmission Studies

Delivery

- Procurement Management & Supplier Review
- Technology FAT, Installation & Commissioning Support

Net Zero commitments are reshaping the business landscape worldwide. Traditional strategic business metrics such as costs, risks, regulatory environment, the use of materials and resources, and changing consumer preferences must be rethought in a systematic way with sustainable, responsible and safe engineering at the centre.

Reducing Emissions

Our multidisciplinary teams proactively work with clients to help them understand and minimise their emissions impacts by quantifying baselines and recommending net zero strategies to meet targets.

We have worked with large scale emitters across the mining, oil and gas, energy, chemical manufacturing, transport and waste industries to capitalise on the opportunities available while managing the ever changing risks.

“We work with clients to **find, design, and deliver solutions** that have the **lowest lifetime costs** and provide the **most reliable technical outcome** with the **lowest emissions** or the **best environmental outcomes**.”
Nathan Tinline; Discipline Lead, Energy Innovation

60% Renewable Wind, Solar and BESS Feasibility Study

Client: Confidential

A leading proponent has engaged us to complete a pre-feasibility study to power a Western Australian gold mine with 60%+ renewable energy generation.

To achieve their reaffirmed commitment to sustainable production per year, Agilitus provided advice to reduce net emissions by 30% by 2030, thereby supporting their ESG priorities.

Following our work on the pre-feasibility for renewable energy generation, we have been given the green light to further develop this design by providing a Basis of Design, Capital Estimate, and Schedule Estimate.

Our Energy and Electrical engineering professionals are collaborating with the proponent to develop solar, wind and hybrid system capabilities for the mine. We are also providing value engineering with geotechnical, hydrogeology, site integration and powerline considerations.



Nathan Tinline

Discipline Lead, Energy Innovation

We are trying to produce the most reliable technical solution that just so happens to have the lowest lifetime costs and is the best environmental solution.

We are experts in driving meaningful change in the growing energy sector. Our depth of knowledge allows us to provide tailored guidance, helping clients navigate the complex energy landscape with confidence. We are dedicated to empowering our clients through a journey of discovery.

Our multidisciplinary energy team, seamlessly integrated with the broader business, combines diverse strengths and specific expertise in the energy sector. This enables us to adapt to the evolving energy landscape, including managing decarbonisation projects in electrical and civil components.



Desalination



Desalination is a drought resilient source for providing reliable fresh water no matter the climate conditions.

With a drying climate in Australia, we cannot rely on our traditional systems for the collection of fresh water for our towns, cities and industrial needs.

Agilitus are applying their unique knowledge and skills in marine engineering to assist in the selection of the optimal intake and outfall solutions for future desalination projects around Australia. Whilst reverse osmosis technologies are now common and well understood, specialist skills are required to identify the site specific marine risks associated with each plant location.

In addition to core engineering disciplines, Agilitus have in house marine structures, durability, coastal and geotechnical specialists to assist clients in de-risking the marine solutions that can have significant cost benefits to desalination projects.

Key Capabilities

- Material Durability Assessments and Specification in Marine Environments
- Marine Geotechnical Surveys and Interpretation
- Metocean Design Criteria Determination
- Marine Inlet/Outfall Structural Design
- Dredging, Seabed Preparation and Scour Protection
- Intake and Outfall Conveyance Options - Seabed Pipeline, Sub Seabed Tunnel, Causeway, Jetty and Channel

Desalination Plants

Seawater desalination plants require a multidisciplinary team of highly skilled and experienced engineers and scientists.

At Agilitus we have the engineering capability and experience to undertake the entire non-process engineering (NPI) work for a desalination plant. We also have specialists who apply the focus on the following key areas where the right value for money decisions can be achieved.

Key Capabilities

- Performance Specifications
- Material Durability
- Coastal and Marine Engineering for Inlet/Outlet Design
- Geotechnical Engineering
- Plume Modelling for Dredging and Brine Dispersion
- Plant Commissioning

“When taking on a project, we put ourselves in our client’s position and think about what we would like to see out of it, or what benefit it is to them by providing a certain solution.” Ben Knowles; Discipline Lead, Ports & Marine.

Image above: Salt Stockpile in Port Hedland, WA.



Battery Anode Material (BAM) Project - Hydraulic Review

Client: Renascor Resources

We were engaged to undertake a detailed hydraulic review of all the pipelines and conduct ocean wave loading studies on the pipelines for the desalination plant.

Located 55 km south-west of Karratha in the Pilbara Region of WA, the ESSP is a new solar salt production and export facility targeting production of 5.2 Million tonnes (Mt) per annum of industrial salt to Asia-Pacific markets.

Completed in April 2023, the BFS builds on our previous work, where we delivered Preliminary Engineering and Trade-off Studies, which have facilitated scope definition for this latest engagement.

We assembled an expert team of engineers and designers with considerable experience in the development of solar salt fields to undertake this study, which is helping inform the robust nature of the project.

The new salt project includes the development of a series of Concentrator and Crystalliser ponds, Jetty, Washplant, and Processing Plant.

Supporting infrastructure includes seawater intake, bitterns outfall, desalination plant and groundwater bores, power supply and other infrastructure.

The salt will be transported via road train across a haul road to the approved trestle jetty at Cape Preston East Port facility for export. This would include dumping, stockpiling, reclaiming, and shipping across a marine transshipment barge facility within the Pilbara Port Authority (PPA) lease footprint.

Concurrently to the BFS, Leichhardt has progressed the collection of key input data (topography, bathymetry, geotechnical and metocean) as well as progressing Environmental and Heritage Studies.



Gavin Wearne
Director, Ports & Marine

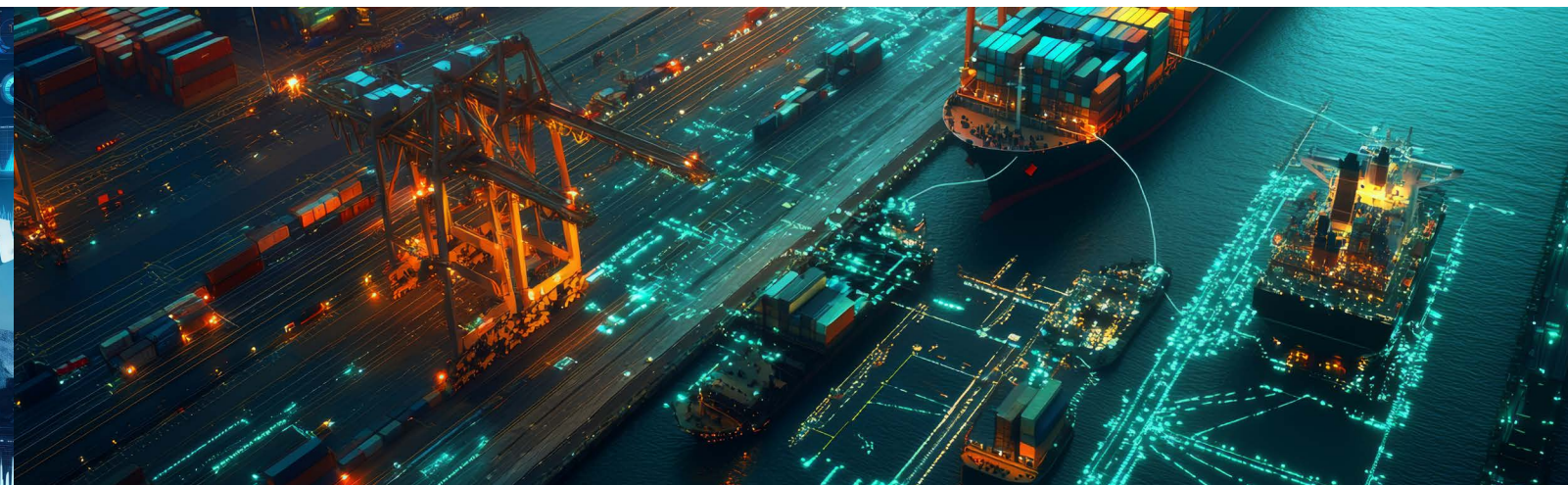
We use leading-edge technology that makes a real difference in how we work with our clients. We’re exploring 3D design in exciting new ways and using virtual reality to give clients a hands-on tour of our models. It’s a great way for us to collaborate in a fully immersive and interactive way.

We guide our clients through every stage of their project, turning their ideas into reality. From the very beginning, we dive into concept and master planning. Once the foundation is set, we handle design, approvals, and construction, transforming visions into fully operational facilities.

What sets us apart is our blend of specialised and multidisciplinary expertise. Our team doesn’t just focus on one area; we understand how different elements of a project fit together. That’s why clients come to us: we offer integrated solutions that tackle complex design challenges and deliver exceptional results.

Digital consulting

We provide tailored strategies in data, technology, digital transformation, and operational improvement. We support clients with AI integration, Net Zero planning, scenario analysis, and expert peer reviews to drive efficiency, innovation, and sustainable growth.



Tailored Digital Strategies for Industry-Specific Success

We understand each industry has unique challenges and opportunities. Our Digital Advisory services are customised to meet the specific needs of each client, offering data-driven insights and innovative solutions to enhance business outcomes. Whether it's improving operational efficiency, advancing digital transformation, or integrating AI technologies, our expert team works closely with clients to design impactful strategies.

Driving Transformation with Data and Technology

We help clients navigate the complexities of digital transformation, utilising the latest technologies and data analytics tools to optimise business processes. From developing AI-driven solutions to implementing advanced data models, we ensure clients are empowered with the insights and capabilities needed to make informed decisions. Our approach includes improving operational processes to drive tangible, measurable improvements in performance and productivity.

Supporting a Sustainable Future with Net Zero Expertise

In a rapidly evolving energy landscape, Agilitus offers comprehensive Net Zero advisory services to guide clients through the challenges of decarbonisation and energy efficiency. By leveraging our expertise in energy resource studies, risk management, and scenario analysis, we help clients develop actionable Net Zero strategies.

Our solutions balance risk, cost, and technology, supporting clients in achieving sustainability goals while optimising energy systems for the future.

Key Capabilities

- Advanced Data Analytics
- Operations Simulation
- Artificial Intelligence
- Digital Advisory

Kieran Maher National Design Manager (SMP)

At Agilitus, we believe in the power of collaboration and innovation. Our use of leading-edge technology enhances our designs, so they are not only extremely accurate, but also provide an immersive experience for our clients, enhancing their understanding and satisfaction.



With 20 years of experience, Kieran excels in managing and leading multi-disciplinary SMP teams, where he currently supports over fifty designers nationwide at Agilitus. Kieran has extensive project experience across the mining and industrial sectors including refinery expansions, materials handling, crushing plants, and detailed design for export facilities. Kieran's diverse background demonstrates his ability to manage complex projects and deliver high-quality results across a range of engineering design challenges.



James Marshall Technical Director, Digital Consulting

With expertise in AI, Net Zero strategies, and advanced analytics, we empower clients to optimise performance, reduce costs, and navigate complex industry challenges effectively.

James has more than 25 years' experience applying data science to solve real world problems. This has been in the transportation, resource, health and defence sectors across Australia and internationally, with a particular focus on supply chain and capacity simulation. James's experience covers the use of a wide range of analytics, simulation and operational modelling tools which resulted in leading the Digital Consulting practice at AECOM.

Discrete Element Modelling (DEM)

Agilitus is a premier provider of **Discrete Element Modelling (DEM) & Smooth Particle Hydrodynamics (SPH)** modelling, offering cutting edge solutions driving efficiency and innovation across industries.

We deliver precise and reliable modelling services for our clients to optimise their processes, reduce operational risks, and enhance performance.

Our team is committed to quality and when coupled with a profound understanding of complex systems, we ensure every project benefits from tailored, data-driven insights.

Whether you're looking to refine material handling systems, optimise fluid dynamics, or simulate intricate particle interactions, Agilitus provides the expertise and technology necessary to achieve superior results.

Key Capabilities

- Model Calibration
- Model Validation & Optimisation

Daniel Ausling
Principal Mechanical Engineer

Our proactive approach leverages the extensive experience of our team and guides clients towards effective solutions. We **prioritise the most efficient and effective methodologies, even if that means recommending an alternative path to achieve their required outcomes.**

Daniel is a Materials Handling Specialist with more than 20 years of experience in the bulk solids handling industry. He has been involved in the design of various materials handling systems or components including conveyor systems, transfer stations, stockpiles, and feeders. Previously with TUNRA Bulk Solids, Daniel gained experience in management and participated in research projects in conjunction with the University of Newcastle.



Coal Plant Upgrades

Client: Undisclosed

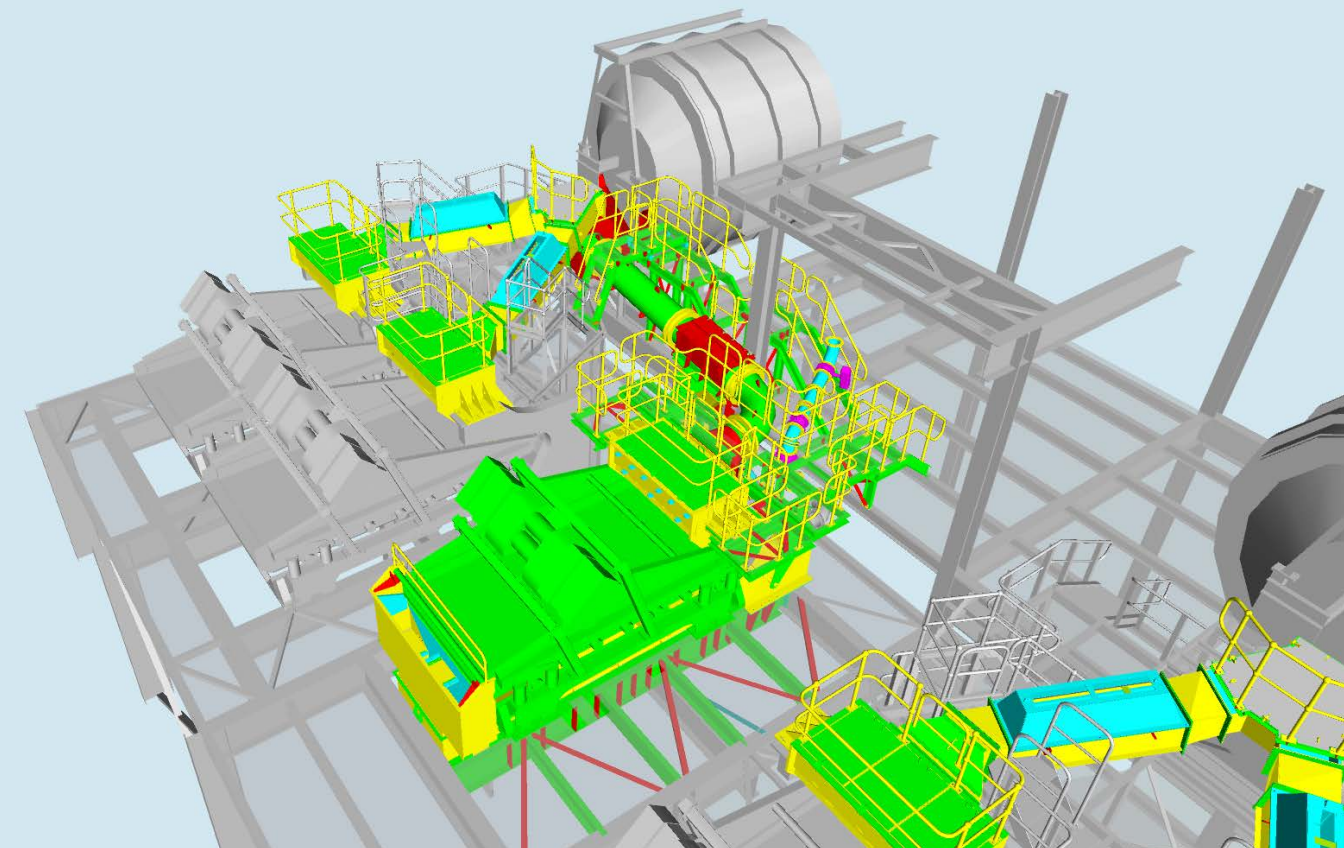
Agilitus was engaged to conduct a Pre-Feasibility Study for the major upgrades to the ROM Circuit and Coal Handling Preparation Plant (CHPP).

After an intensive review of the processing and materials handling equipment, necessary infrastructure upgrades for tailings dewatering and ROM debottlenecking were identified.

The upgrade works, by Agilitus' Newcastle team, include incorporating a new thickener and flocculation plant. Major upgrades to the ROM circuit require the addition of various types of equipment to improve the handling of difficult coal types.

In combination, these works will enhance the operational and environmental performance of the CHPP and wider site. DEM and SPH modelling were used across the project to optimise the following areas:

- **Transfer Chutes** – Designed to be simple and effective, minimising wear and controlling distribution according to the different material characteristics and particle size distributions (PSDs) expected around the site.
- **ROM Pad Grizzly and Feeder Breaker Arrangement** – Used as another reference when calculating complex material loading arrangement and to ensure throughput can be maintained for a range of operational scenarios.
- **Launder/Static Screen** – DEM – SPH coupled modelling used to ensure sufficient flow and distribution of material over the screen.
- **Reject Bin** – An in-depth analysis was conducted on the proposed reject bin used to store both dewatered tailings and waste rock. Currently, there are no reject bins used for this combination of dewatered tailings and rejects. This created a high level of uncertainty, requiring an extensive calibration process to develop a DEM – SPH coupled model capable of recreating the tested results and scale modelling. This model was used to drive design decisions in tandem with best practices to deliver a reliable product.



Electrical engineering



Focusing on the design of electrical, instrumentation and control aspects of mining and resources projects in both process and non-process infrastructure.

Agilitus has a strong track record of providing cost effective and easy to build solutions. Our consolidated experience draws upon our involvement in numerous projects where the team has been instrumental in the development of process plants as well as industrial and commercial buildings.

Key Capabilities

Electrical Engineering

- Power Generation
- HV Power Distribution Design (Substations, Switchgear, Cables and Transformers)
- Power System Studies (Load Flow, Fault Levels, Protection, Motor Starting, Harmonics, Arc Flash)
- ETAP, PowerFactory, PowerCAD, Safegrid, SKM PowerTools (PTW), CDEGS
- Earthing Design
- Lightning Protection Design
- Temporary and Permanent Power Systems Design
- HV and LV Cable Calculations
- MCC and Switchgear Upgrades
- Transformer Specification and Selection

- Variable Speed Drives (LV and HV)
- Lighting Design
- Battery Energy Storage Systems
- Renewable Energy Integration (Solar, Wind)
- 3D Modelling
- Selection of Electrical Equipment for Hazardous Areas
- Civil Design of Substation Buildings and Transformer Compounds
- Non-Process Building Services

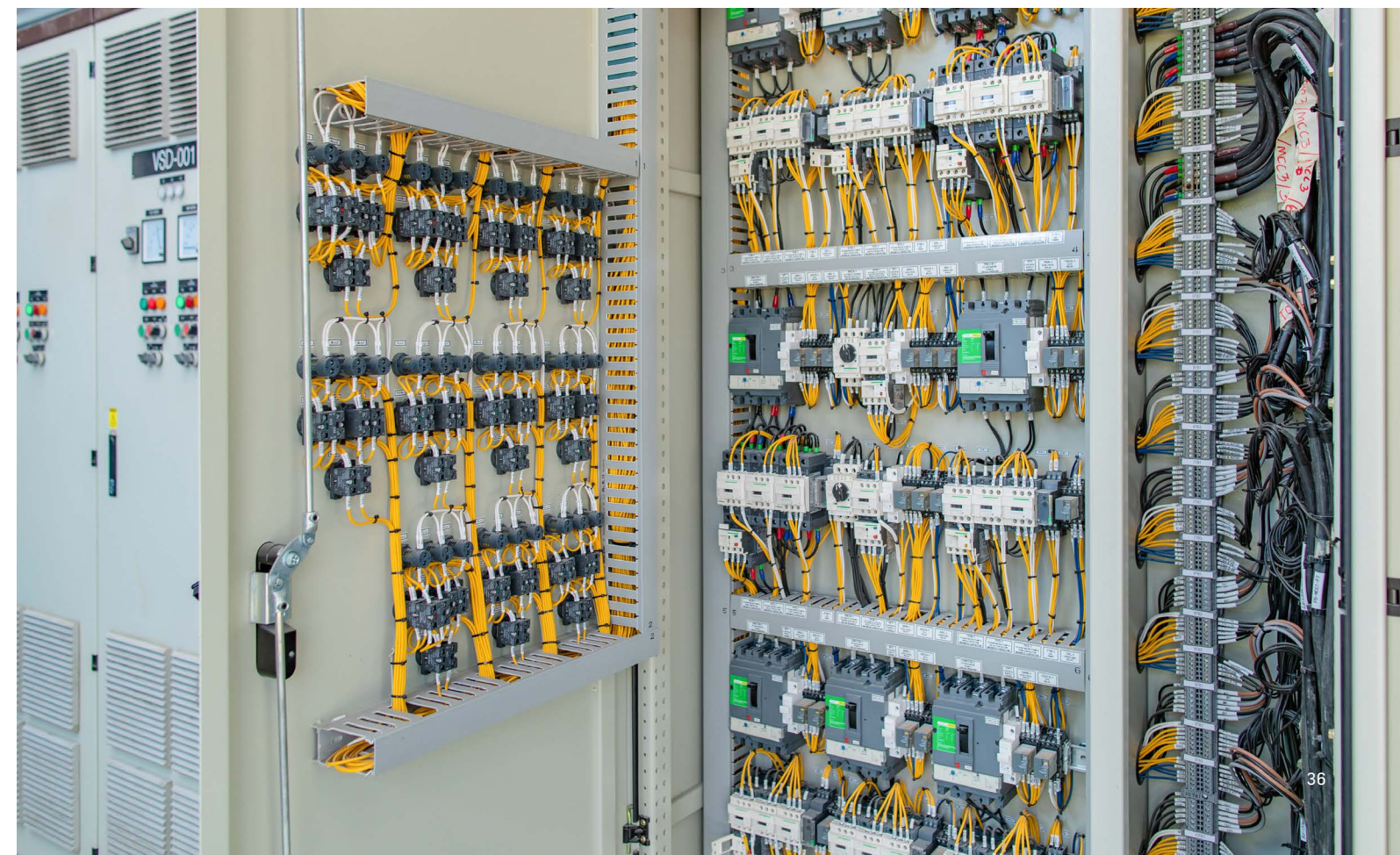
💡 **Our electrical engineering team is made up of a group of people who have a wide breadth of experience and end-to-end EIC design.** We are capable of anything — **from generation and transmissions through to automation design for a tank** if that is what a client wants. **Our expertise is unmatched.** 💡 Rhys Ledger; Discipline Lead, Electrical

Instrumentation & Controls Engineering

- Instrumentation Design and Selection
- Datasheets
- Valve Selection
- Functional Safety (5 x certified Functional Safety Engineers)
- Functional Safety Lifecycle Management
- Safety Requirements Specifications
- Control Philosophy
- Functional Specifications
- User Requirements Statements
- Design of SIS, PLCs and DCS Systems
- Design of Process (OT) Networks
- Programming of PLCs and HMIs
- Historian and MES Systems
- Systems Integration
- PLC and DCS Testing & System Commissioning
- Experienced with Allen Bradley, Rockwell, Schneider Quantum M340 M580, PlantSCADA (Citect), ABB 800xA, Honeywell RTU, GE Fanuc
- Civil Design of Equipment Rooms

Electrical & Controls Project Delivery

- Specialist Energy Team (Power Generation and Renewables)
- Electrical & Controls Project Management
- Electrical Design Feasibility & Option Studies
- Arc Flash Studies
- HAZID, HAZOP, LOPA & Electrical Safety & Operability
- Operation and Maintenance Support and Improvement
- Maintenance & Operability Documentation
- Electrical Equipment Repair Technical Support
- Electrical & Instrumentation Equipment
- Procurement Support
- Electrical Commissioning & Completions Support
- Specialist Team – Site Delivery





Stanley Point 3 Port Expansion

Client: Roy Hill

We played a key role in the expansion of one of the largest bulk commodities ports in the world, completing three engagements to date.

To support the long-term strategic planning of its existing mine and port infrastructure, Roy Hill commenced the detailed design phase of the proposed Stanley Point 3 Port Expansion Project to increase the current export capacity from 60-64 Mtpa to 102 Mtpa.

Agilitus was engaged to provide a range of multidisciplinary capabilities including civil, structural, mechanical, and electrical engineering.

Concept Engineering Study

Our completed study determined optimal solutions for magnetite handling from within the Ridley Development Envelope at Port Hedland, and into the Stanley Point 3 shiploading circuit.

As part of this study, our team provided a detailed assessment of the options including identifying and developing feasible conveying and transport routes. Delving deeper they undertook a high-level assessment of the proposed assets and identified mitigation measures to prevent issues relating to handling the higher-density product.

Feasibility Study

Further to the Concept Engineering Study, we were asked to complete the Feasibility Study. Our team incorporated sufficient engineering definition (15%) to support a Class 4 cost estimate for a base case integrated stockyard and split yard solution.

Progressive delivery combined with 3DEGlobal's Indian Design Modelling Centre was effectively utilised to facilitate rapid development of the design documentation in an aggressive 16-week schedule to achieve the Financial Investment Decision milestone.

Energy & Power Feasibility Study

During our third engagement on this project, we determined the overall power and energy demand for the new infrastructure planned for Berth 3.

The Agilitus NetZero in Design™ approach was integrated throughout the project lifecycle to enable Roy Hill to achieve its targets efficiently.

Engineering design and approvals are now well advanced for the Stanley Point 3 expansion, which will support the rising demand in exports in the coming years for the global energy transition.

Rhys Ledger

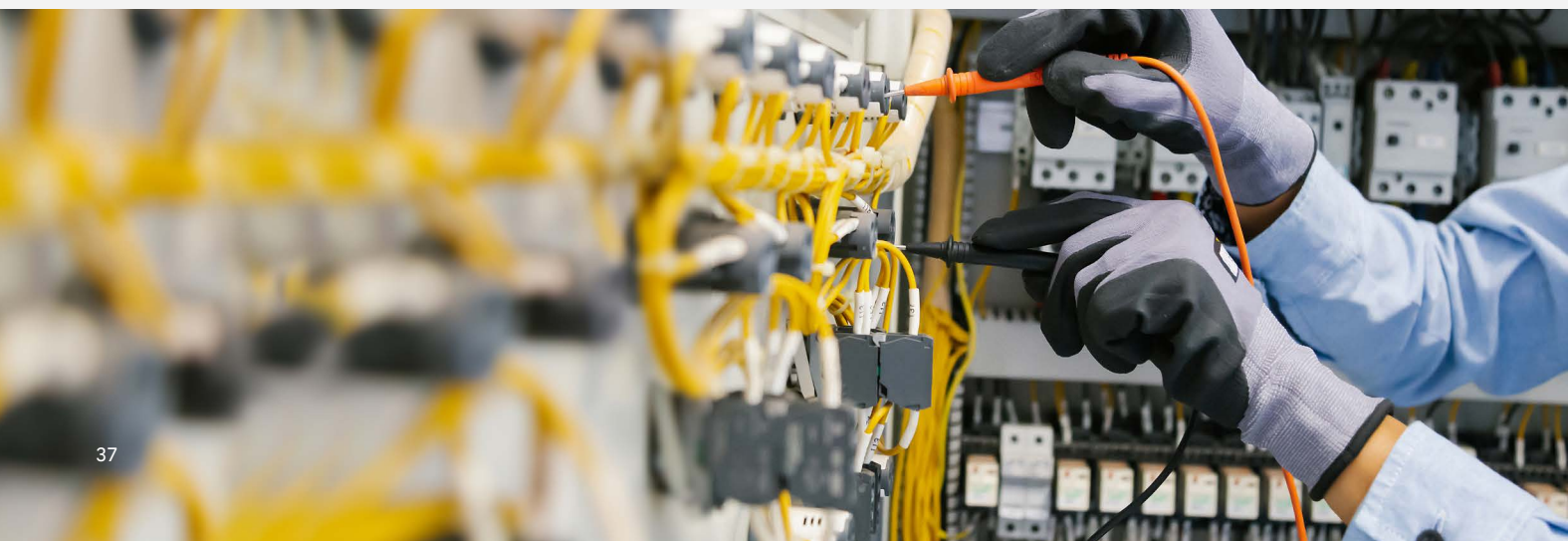
Discipline Lead, Electrical

We are experts in electrical engineering, ready to power up any project. From generation and transmission to automation design, we've got every angle covered. Whether you need a process plant, a gold elution plant, conveyors, or material handling, **we turn your vision into reality with unmatched expertise.**



We provide compliant alternative pathways that enhance collaboration, as seen in our work with clients such as Rio Tinto. With our deep understanding and experience in compliance, we propose solutions that not only meet standards but also improve project efficiency and mitigate risks. We focus on building lasting client relationships to achieve smarter, more effective outcomes together.

From powering operations to lighting up new possibilities, we're experts in optimising a wide range of electrical systems. Whether it's refining power distribution, enhancing lighting, or integrating renewable energy, we ensure our solutions are both innovative and compliant. We focus on crafting smart, client-centred solutions that blend with existing setups to drive the future.



Energy



When it comes to solving energy challenges, **we provide customised advice on the most effective strategies for accessing energy resources.**

Our dedicated in-house energy team seamlessly integrates technical expertise, environmental impact, and financial viability considerations to offer real and practical solutions.

We have extensive experience in solar, wind, hydrogen, battery energy storage systems (BESS), hydropower, biofuels, and thermal systems. Our tailored solutions span the power generation, transmission and distribution, decarbonisation, energy storage, and renewable energy sectors.

The Agilitus energy team's pragmatic approach enables them to reduce capital expenditure in both energy generation and supply while achieving an overall reduction in Levelised Cost of Energy (LCOE).

The team is focused on designing solutions to minimise risk in system reliability and energy supply while managing both short and long term uncertainty in energy pricing, technology development and regulatory requirements.

The team successfully navigates the rapidly evolving technology and regulatory environment in the provision of a clear strategy to net zero.

Key Capabilities

Advisory

- Energy Resource & Technology Studies
- Risk Management (Technical, Project and Commercial)
- Market & Commercial Advisory (Inc. PPA, BOO & EPC)
- Demand Side Management, Energy Efficiency & Auditing
- Site Identifications
- Network Node Analysis
- Life Cycle Assessments, Decarbonisation and Net Zero Strategies
- Regulatory Advice for Energy & CO₂e

Engineering & Design

- Grid Connected and Standalone Power Systems
- Remote Area Power, Hybrid Power & Microgrid Solutions
- Energy Generation, Storage, Distribution & Monitoring
- Electrification, Energy Transition & Technology Integration
- CEC Accredited Design & Installation of Grid Connected & Standalone Power Systems
- Network Connections & Transmission Studies

Technology Experience

- Solar PV, Wind, H₂, BESS, Hydropower, Biofuels, Thermal, etc.
- Scaling from kVA to GVA and kWh to TWh

Delivery

- Procurement Management & Supplier Review
- Technology FAT, Installation & Commissioning Support
- Construction Management
- Owner's Engineer Services

“We are **dedicated to offering practical advice that empowers our clients with confidence** in finding the right solutions.” Nathan Tinline; Discipline Lead, Energy Innovation





Nathan Tinline
Discipline Lead, Energy Innovation

We bridge the gap between the technical, environmental and financial aspects of energy projects.

We are experts in driving meaningful change in the growing energy sector. Our depth of knowledge allows us to provide tailored guidance, helping clients navigate the complex energy landscape with confidence. We are dedicated to empowering our clients through a journey of discovery.

Our multidisciplinary energy team, seamlessly integrated with the broader business, combines diverse strengths and specific expertise in the energy sector. This enables us to adapt to the evolving energy landscape, including managing decarbonisation projects in electrical and civil components.

McPhee Energy Study

Client: Atlas Iron

We were engaged to refine the power and energy demand for the McPhee Creek mine, enabling an overall reduction in energy demand by 46%.

Atlas Iron engaged our Energy team to refine the power and energy demand for the McPhee Creek mine, which is currently undergoing statutory approvals and planning. Our work helped to optimise the site's energy supply configuration for the lowest levelised cost.

The McPhee mine site is located in the northeast Pilbara region of Western Australia, approximately 100 km north of the Roy Hill Mine and 30 km north of Nullagine, with an expected production rate of approximately 9.5-9.7 Mtpa. Primary crushed ore will be hauled via road train from McPhee to Roy Hill for processing, transport to the port and shipping.

The interrogation and optimisation of the mine site design and load list by Agilitus enabled an overall reduction in power and energy demand by around 46%. This, combined with refining the power system design enabled a saving in CAPEX for the power station of over 28%, improved OPEX, reduced supply risk and enhanced vendor management.

Atlas is collaborating with other Hancock Prospecting Group companies on long-term growth options including the McPhee project. The Final Investment Decision (FID) is expected in mid-2023.



Environmental, social & governance

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

To achieve a sustainable future, resources and energy companies, port authorities and other utilities, need to strike a balance between reducing carbon emissions, maintaining a social licence to operate and maximising financial returns. Increasingly, investors, shareholders, employees and community groups are turning their attention to developing, deploying and embedding ESG into their operations.

From an institutional/organisational-level, we help clients establish a cohesive ESG Strategy (among other capabilities), which is the first step in charting a course to net zero. This usually includes:

- Alignment with the overarching company or government agency strategy and business plans;
- Identifying and responding to their ESG material issues, vulnerabilities and/or performance gaps;
- Responding to externalities (i.e. mega trends and market forces);
- Conducting Board and leadership reviews to assess and/or enhance corporate governance;
- Conducting scenario analyses to assess and/or mitigate climate risk and enhance resilience;
- Developing decarbonisation roadmaps; and
- Scoping data capture to enable monitoring of ESG datasets and/or undertaking user acceptance testing (UAT) for data automation for Environmental Management Systems (EMS), ESG Management Systems, etc.

Agilitus also partners with clients to mitigate the impacts of emissions at a project specific level, across the entire lifecycle.

Our design, engineering, project delivery and advisory teams work seamlessly with clients and communities to pursue their vision.

We challenge the status quo, optimise innovation and deploy best-practice technical capabilities to transform Brownfield operations, and to help bring low-carbon Greenfield projects to market.

Our low-carbon solutions are delivered by the most qualified talent and provides the following benefits:

- Understanding of and adherence to regulatory instruments and technical Standards;
- Efficient navigation through Australia's statutory development approvals;
- Protection and preservation of our cultural heritage, and the environment and waterways;
- Healthy, transparent and trusted relationships with stakeholder groups;
- Respectful liaison with Traditional Owners; and Fair and equitable outcomes for local communities

Looking through an ESG lens, Agilitus' collective ESG and engineering capabilities include:

- Stakeholder Consultation and Engagement
- First Nations Engagement and Cultural Heritage Management
- Sustainability
- Climate and Resilience
- Decarbonisation
- Energy Transition and Renewables
- Governance, Reporting and Disclosures

“To achieve a sustainable future, resources and energy companies, port authorities and other utilities, need to **strike a balance between reducing carbon emissions, maintaining a social licence to operate and maximising financial returns.**”

Ground engineering



Focused on getting the geology right, we develop robust geotechnical designs underpinned by an accurate representation of the subsurface profile.

Providing a full suite of geotechnical engineering services from onshore and nearshore site investigation through to detailed foundation design.

Successful project outcomes start from an early understanding of geological hazards and ground risks, followed by active management of these risks throughout the project lifecycle.

Our engineering geologists and geotechnical specialists work collaboratively to plan and execute site investigations, analyse and design while using the latest software and technology to provide construction phase support and undertake asset condition assessments.

The team's experience gained on projects in Australia, New Zealand, Indonesia and Africa, allows us to assess key geotechnical risks and adopt practical design measures to manage them. We leverage historical project learnings to better inform solutions to unforeseen ground conditions, construction difficulties, construction material characterisation and supply.

Key Capabilities

Ground Investigations

- Foundation Design
- Design of shallow footings and piles
- Settlement and groundwater analyses
- Ground improvement design and monitoring
- Back analysis of foundation performance
- Pile drive-ability studies
- Ground anchor design

Slope Stability

- Assessment of existing slopes
- Instrumentation and monitoring
- Risk assessment, quantitative and qualitative
- Slope remediation works design

Nearshore and Marine Geotechnics

- Offshore drilling, geotechnical investigation
- Design of foundations – piles, mooring points, monopods, dolphins
- Design of retaining structures
- Reclamation, dredging, ground improvement design
- Materials sourcing for breakwaters

Tunnels & Retaining Structures

- Assessment of deep excavations
- Design of temporary and permanent retaining structures
- Advice during construction, site specific design
- Rock bolting, soil nailing and ground anchors
- Cut and cover tunnel design
- Back analysis of failed structures

Tailing Storage Facilities

- Pre-feasibility to definitive studies
- Site selection and storage options
- Instrumentation and monitoring
- Geotechnical site investigation
- Tailings characterisation
- Water balance and recovery
- Dam break and inundation studies
- Deposition/stacking modelling
- Independent and annual audits
- Construction management
- Construction quality assurance
- Forensic investigation

Specialist Services

- Geohazard / Geotechnical risk assessment
- Site selection / high level feasibility assessment
- Forensic geotechnical analysis
- Seismic engineering and liquefaction analysis
- Specifications for earthworks, piling, retaining systems and ground improvement
- Integrated geological / geotechnical assessments
- Construction support
- Asset condition assessment
- Construction material assessment

Ground Improvement

- Design surcharge / PVD, vibro compaction, vibro replacement (stone columns), controlled modulus columns, jet grouting, deep soil mixing and dynamic compaction

“We get to know our clients, we understand their drivers, what they need and how it may affect their business. We go beyond for our clients, delivering the best fit-for-purpose solution tailored specifically to their needs.” **Matt Watts; Discipline Lead, Geotechnical**



Hydrology and Waterways Study for Mine Road Upgrade

Client: Pilbara Minerals

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 engineering teams worked collaboratively 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; the Ngungaju Plant located to the south produces a spodumene concentrate.

The Wodgina Access Road is the main access road to the Pilgangoora Mine Site and is situated approximately 110km south of Port Hedland in Western Australia's Pilbara region.

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.



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.

Image: Ngungaju Plant - Courtesy of Pilbara Minerals.



Matt Watts
Discipline Lead, Geotechnical

We have the ability to react, and it's not just the capacity of employees but it is the way the business is set up. **We are designed in a way that allows us to react quickly and that is what makes us unique.**

Matt is a commercially minded discipline lead with strong communication and leadership skills. He has extensive experience in soil mechanics and has worked on diverse government infrastructure and major mining projects across Australia, New Zealand, Indonesia, and Africa. He is particularly interested in large scale scoping studies and enjoys collaborating with clients to produce quality engineering outcomes.



Heavy haul rail engineering



Providing structural and civil engineering services for major intermodal facilities, refurbishment/upgrade projects and new rail lines.

Agilitus has a strong reputation for heavy haul projects through our ongoing involvement in railway infrastructure. Our experience extends to the field of hydrology models, waterways analysis, bridges and culvert design.

“As dedicated experts we 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. We provide fit-for-purpose design solutions for our clients in the Resources, Energy and Industrial sector.” Brad Thomas; Discipline Lead, Civil.

Key Capabilities

- Rail Alignment
- Drainage and Scour Protection
- Hydrology and Waterways
- Track Structure
- Rail Access Roads
- Bridges and Culverts
- Formation and Earthworks
- Corridor Access Permits
- Rail Maintenance and Operational Facilities
- Systems Capacity Modelling
- Signalling
- Overhead Wire and Traction Power
- Quantity Surveying
- Geotechnical Investigations and Design
- Environmental Management

Abrolhos Overpass

Client: Fortescue (Central Systems)

We enabled autonomous mining access over an existing live rail network at Fortescue’s Cloudbreak site.

Collaborating with Central Systems, we designed both the concrete and steel plate arch structures.

As a consultancy who prides itself on being client focused and technically excellent, it is exciting to see our knowledge and expertise contributing to such an impressive solution to a complex problem.

The project involved the construction of a concrete arch over a live rail network which provided some unique challenges and additional safety considerations. Significant planning and effort were required to safely complete the project while accommodating regular interruptions of the Fortescue trains. Full credit to the entire team and their ability to consider, plan and deliver the project safely.

We delivered the project through the COVID-19 lockdown, meaning a significant component of the design was delivered by our team in their home offices. The increased communication between Fortescue, Systems and Agilitus was beneficial to the design process and has been adopted by us moving beyond the project.

A combination of steel plate and concrete arches enabled the team to take advantage of the benefits each arch provided and deliver the most efficient and cost-effective solution for Fortescue.



Brad Thomas
Discipline Lead, Civil

We are usually the first to receive the designs, analysing how our clients will get materials from A to B, and optimising it in terms of designing roads, drainage solutions, haul roads, bulk earthworks and everything in between.

We are experts in designing sustainable solutions that minimise waste, costs, and the footprint on the land. Whether it’s reducing waste, cutting costs, or preserving land for the future, we’re committed to making a positive impact through our expertise in civil engineering. By integrating our civil, hydrology and geotechnical experts, we are ready to support our client’s team no matter the project stage. This integrated approach ensures smooth communication between specialisations and allows us to offer our clients detailed insights across multiple areas. We function as part of our client’s team to simplify processes throughout the project lifecycle.

HSEQ solutions

for asset optimisation and risk mitigation

Leveraging years of delivering complex projects for our clients in the Resources, Energy and Industrial sectors. Agilitus provides comprehensive HSEQ capabilities across the entire asset lifecycle. Delivering solutions that optimise asset performance, mitigate risk and achieve quality outcomes.

From concept and scope definition, to establishing a detailed understanding of client requirements and mobilising technical resources, through to the on-time delivery of HSEQ capabilities, Agilitus provides fit for purpose solutions that meet our clients' risks and compliance requirements.

Our team brings its expertise in risk management, quality frameworks, compliance process, and investigative techniques to enable our clients to eliminate harm, reduce loss and achieve organisational quality outcomes.

Key Capabilities

- HSEQ Management Systems
- Document Control/Information Management
- Risk Management
- Construction QA/QC
- HSEQ Compliance
- Emergency Management
- Incident Investigations
- Equipment Compliance

HSEQ Management Systems

We tailor HSEQ Management Systems to client needs, project requirements and legislative obligations. We help guide and develop the appropriate tools and processes to ensure a method of continual and proactive improvement.

Document Control and Information Management

A core component to our business is the superior management of engineering, construction and operational documentation. Our Document Control team provides a wide range of internal and external information management services across numerous platforms including Aconex, Team Binder and QDMS.

Risk Management

Risk management is the foundation of successful engineering, construction, completions, commissioning, operation and closure. From the initial identification of risk, analysis and evaluation, through to mitigation, control, and risk monitoring, Agilitus develops superior risk management practices to help our clients reduce the potential for injury, loss and business impact. Our capabilities drive technical efficiencies through the asset lifecycle, identifying opportunities and mitigating risks.

HSEQ Compliance

Ensuring our clients are compliant across organisational standards and legislative requirements. Agilitus has considerable expertise across all industry sectors to enable the identification, verification and monitoring of our clients' HSEQ Management Systems to ensure compliance to organisational standards and legislative requirements.

Construction QA and QC

Across all phases of the Construction Quality Management lifecycle, Agilitus provides support in all aspects of QA and QC to ensure the goal of zero defect is achieved.

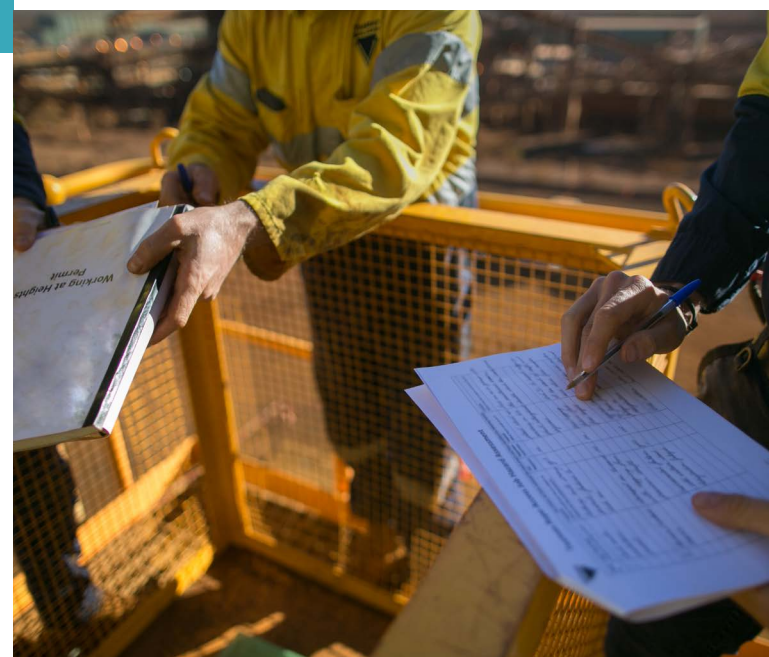
Equipment Compliance

Equipment operability and safety is essential for regulatory compliance, and to ensure operator safety. From equipment identification to safe operability, maintenance, and decommissioning, Agilitus has the experience to support your requirements.

Incident Investigations

Ensuring the right expertise is utilised during investigations ensures the root cause is properly identified and mitigated. When an organisation has sustained an injury, physical loss, or unplanned business impact, Agilitus can assist with incident investigation support.

💡 **We prioritise an energetic and motivated work environment, working together to achieve common goals.** 💡 **Matt Moreland;**
General Manager, Engineering



Document Control Services

Client: Leichhardt Industrials Pty Ltd

Increasing document control efficiency to reduce risk and help projects have a higher likelihood of consistency.

Leichhardt spearheads the Eramurra Solar Salt Project which is located 55 km southwest of Karratha. The new salt project will help combat the predicted 20 Mt shortfall of salt supply which is predicted for 2027.

Agilitus' HSEQ team provided dedicated Document Control Management Support covering both corporate and project information management through various opportunities being explored by the organisation.

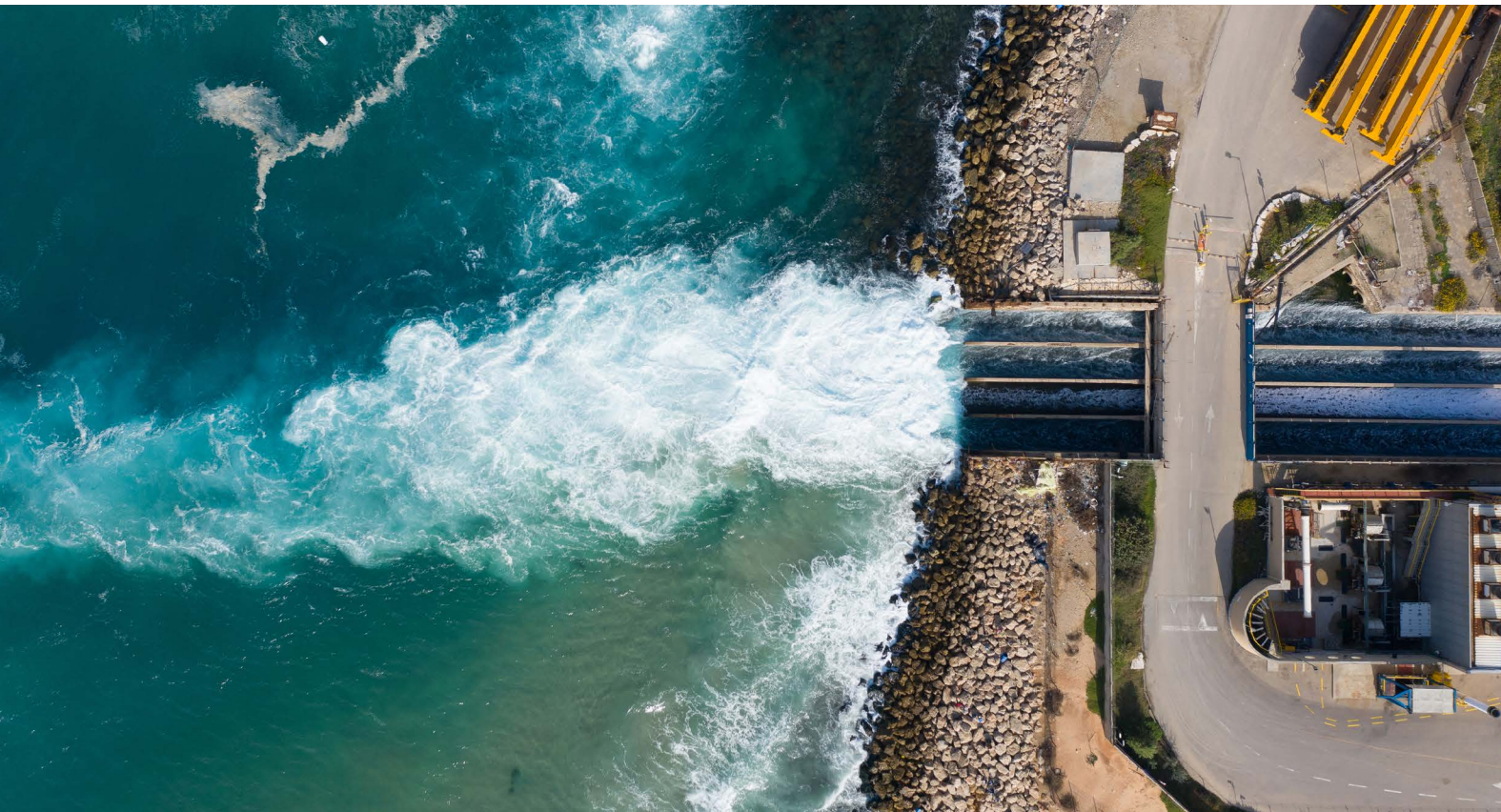
From day one, our focus has been on building a proactive safety culture. It's not just about meeting industry standards—it's about creating an environment where everyone feels supported and valued.

Morgan has more than 20 years of senior HSEQ experience in international organisations, leading safety performance in major projects worldwide. For the past 14 years, he has coached managers in leadership roles. Morgan excels in promoting a zero-defect culture and reducing injury rates across diverse environments, inspiring stakeholders to achieve the highest safety standards.

Morgan Davis
HSEQ Manager



Hydrology & water



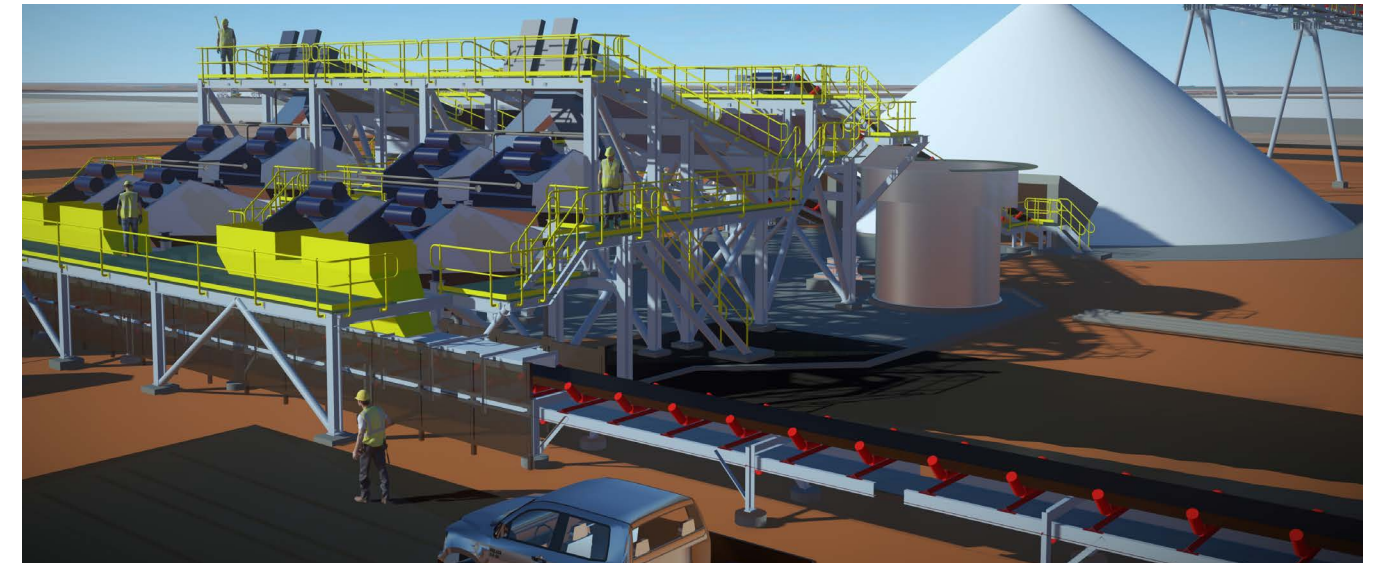
Providing specialised hydrological services and advice, Agilitus assists clients through the planning, design, construction and operation of process and non-process infrastructure.

The dedicated Agilitus hydrology team are skilled in the use of the most up-to-date software and trained in the application of the latest tools and hydrology methods.

The team prides itself on providing site-specific, quality, accurate services and advice. Our 'boots-on' leaders are experienced in project delivery, of all scales and many global locations.

Key Capabilities

- Waterways Investigation and Design
- Surface Water Modelling
- Flood Risk Assessment
- Hydrological and Hydraulic
- Water Supply and Yield Studies
- Water Balance
- Modelling
- Mine Site Water Management
- Yield Assessment Studies
- Dam Design, Dam Failure Assessment
- Environmental Hydrology
- Water Quality Assessment



Ashburton Salt Feasibility Study

Client: K+S Salt Australia

We have completed the Full Detailed Feasibility Study for a new solar salt production and export facility in Western Australia.

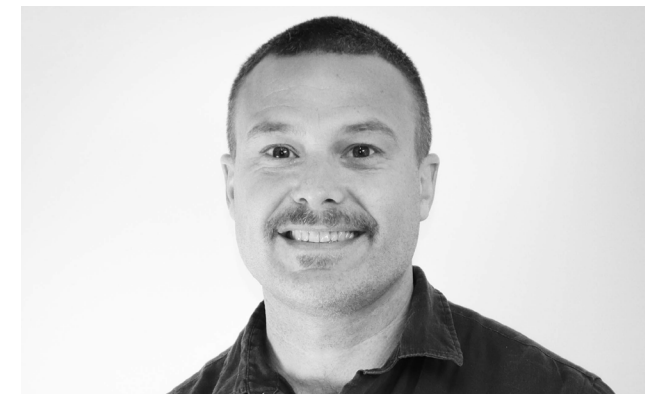
K+S Salt Australia Pty Ltd (K+S) is seeking approval for the construction of the Ashburton Solar Salt project located 40 km southwest of Onslow.

The proposed facility is situated across existing coastal salt flats at the top of the Exmouth Gulf on a greenfield site, and is ideally positioned for solar salt evaporation and production. Once completed, the project will generate 4.7 million tonnes per annum of high-purity salt.

Work delivered by Agilitus included designing all components of the project including the seawater intake, transfer pump stations, salt concentration ponds, salt crystallisers, brine transfer systems, salt wash plant, stockyards and reclaim circuit, NPI facility, overland conveyor, and a new trans-shipment port marine facility.

As part of the study, we also assessed the capital cost and project implementation schedule and developed the project execution strategy. Our team also undertook Value Improvement Practice (VIP) activities to identify capital cost savings.

Image above: Ashburton Salt Project, Western Australia.



Matt Stovold
Principal Civil Engineer

Within the drainage and flooding discipline, we are conscious of cultural sensitivities and provide design solutions that are cost effective, consider constructability and material availability, and minimise environmental impacts.

Matt is a surface water and highways specialist with more than 19 years of experience leading teams on major infrastructure projects in Western Australia. He excels in road design, flood management, and drainage. Matt is known for creating practical, sustainable solutions and fostering a positive workspace through genuine relationships and open communication. He's also experienced at providing solutions for water-driven erosion and slope stability to protect key assets.

Mechanical engineering

Drawing on our consolidated experience, Agilitus provides client-centric mechanical engineering services for small and large projects.



The Agilitus team of engineers are proficient in the use of dynamic analysis and non-linear Finite Element Analysis (FEA), on a wide range of small and large projects.

Our mechanical engineering team thrives on tackling projects that blend various disciplines—civil, structural, mechanical, and piping. We're expert problem-solvers who collaborate closely with project engineers to understand our clients' needs inside out. Whether it's devising the perfect mechanical solution or delving into project complexities, we bring creativity and technical expertise to every challenge. Our mission is clear: to help our clients achieve success with precise and reliable outcomes, every time.

Key Capabilities

- Bulk Materials Handling Design
- Mining including Crushers, Overland and Transfer
- Conveyors, Stockyards with Stackers and Reclaimers, Process Plant Equipment, Loading Systems
- Plant and Equipment Trouble Shooting
- Port including Train Unloaders, Conveyors, Stockyards and Shiploaders
- Mining Process Plant including Equipment Design and Selection
- Process Improvement
- Tailings Storage Facilities and Pumping Design
- NPI Equipment Design and Services
- Mining Workshops
- Water Treatment Plants
- Site Technical Support Services
- De-bottlenecking and Optimisation Studies
- Process Upgrades and Modifications
- Site Support During Shutdowns and Commissioning



Overland Conveyor Belt Change Facilities

Client: Rio Tinto

We developed a low-risk belt replacement solution on Rio Tinto's longest overland conveyors to minimise lost production and lower impacts on existing road networks.

We supported Rio Tinto through multiple project phases that included option identification, optioneering, equipment selection and detailed design through to implementation and close out support for the Overland Conveyor (OC) replacements at Western Turner Syncline (WTS). We provided multidisciplinary services spanning civil, structural, mechanical and electrical engineering.

Our scope of work encompassed the suitability and modification of belt changeout sites and the design of belt reeling platforms, splicing stations, clamp stations and belt flaking layouts for the four overland conveyors and the stacking conveyor, including auxiliary belt pulling drives specific for the changeouts.

During the WTS1 greenfield project construction phase, cost optimisation led to the OCs being constructed without belt replacement or belt splicing facilities. Since installation in 2014, these belts had not been replaced and were approaching their end of usable life.

In particular, the CV2104 conveyor belt which is 12 km long (25 km tape length) and the longest in the company's fleet is a critical component for both plant and production operations. Rio Tinto required a solution to allow these belts to be replaced according to their planned maintenance schedule which involved years of pre-planning.

Through our involvement over the past 4-5 years, Agilitus identified an innovative approach to develop layouts that maximised the efficiency of the belt replacement and minimised impacts on existing road networks.

Tony Daniel, Regional Manager (Western Australia) said, "This allowed the rest of the plant to continue operating during belt changeout, minimising the risk of lost production and work required during shutdowns."

The low-risk solution optimised belt changeout to simplify earthworks, eliminating the need to source fill materials as well as reducing risk to ethnographic sites. By developing a relocatable solution, the scope of the project was optimised, thereby removing the need for the fabrication of duplicate items and overland power supply by utilising portable, temporary power controls.

"This complex multidisciplinary brownfield project is a testament to Agilitus' commitment to delivering high quality sustaining capital works," adds Tony.

Sam Hattar
Discipline Lead, Mechanical



We work closely with our clients to identify the best options and uncover valuable cost-saving opportunities. We take a personable approach to ensure our clients are informed and confident throughout every step of their journey with us.

We start by listening closely to our client's challenges and goals, taking the time to understand their needs. Collaboration is key for us — we work closely to ensure we get every detail right. At the heart of our work is building long-lasting relationships with our clients.

We believe in investing the time and effort needed to build mutual understanding throughout our partnership. This commitment goes beyond initial project discussions — we're here, ready to support our clients every step of the way.

Ports & marine engineering



Offering expertise in the characterisation of marine site conditions for the optimal design of port facilities.

The Agilitus Ports and Marine team have decades of experience in port planning, marine site investigations, port design studies and marine and coastal engineering.

Our deep expertise in Marine and Coastal engineering is balanced with a broad knowledge of mine to port supply chains, facilitating fit-for-purpose technical solutions meeting our clients' functional requirements.

Key Capabilities

Port Planning

- Stakeholder Engagement
- Site Identification and Selection
- Master Planning including Strategic Staged Expansion
- Supply Chain Modelling Input and Interpretation

Marine Site Investigations

- Hydrographic Surveys
- Geotechnical and Geophysical Investigations
- Metocean Investigations
- Design Criteria Determination
- Brownfield Site Inspections

Port Design Studies

- Numerical Modelling – Winds, Waves, Circulation and Sediment
- Physical Modelling
- Under Keel Clearance (UKC) Simulation
- Ship Handling Simulation – Desktop and Full Bridge
- Dynamic Mooring Analysis
- Feasibility Studies and Cost Estimating

Maritime and Coastal Engineering

- Navigation Channels, Dredging and Reclamation
- Marine Structures including Jetties, Wharves, Ro-Ro, Barge Ramps and Floating Docks
- Coastal Protection including Breakwaters, Causeways and Seawalls
- Port Landside Infrastructure including Laydown, Buildings, Access Roads and Services



Onslow Iron Project

Client: Mineral Resources Limited (MRL)

MRL is developing a 30 Mtpa transshipping operation at the Port of Ashburton, servicing the West Pilbara region, as part of the Onslow Iron Project (OIP).

As a trusted partner, we were engaged to provide concept engineering through to detailed design and construction support for the port facilities of MRL's 30Mtpa Onslow Iron Project at the Port of Ashburton.

The facilities included:

- Dedicated Haul Rd within Port boundary,
- Port landside Civil & Drainage Works
- Lease lot pad for truck unloading, storage shed and NPI facilities
- Rock armoured seawall revetments

- Approach jetty trestle including access ramp and abutment
- TSV loading wharf supporting fixed loader
- Mooring and berthing dolphins
- Berth pocket to -7mCD
- Temporary causeway and construction laydown

As part of the design services our team developed the necessary engineering documentation to support Stage 3 Development Application and Stage 4 Construction Approval submission to the Pilbara Port Authority.

Image above: Onslow Iron Project - Pilbara WA.

**Ben Knowles**

Discipline Lead, Ports & Marine

Our team spreads across Perth, Mandurah, and Newcastle, and brings together structural engineers, coastal engineers, and materials durability experts. What ties us all together is our enthusiasm for working close to the water. For me, staying connected to the water is a big part of what I enjoy, so being involved in this work feels incredibly rewarding.

Few engineering firms have the specialist discipline and capability focus in Ports and Marine, as we have at Agilitus. We do anything from port master planning and concept work, all the way through to detail design, construction and asset management of mainly onshore or close to onshore structures.

We are truly multidisciplinary and locally connected, as opposed to being siloed, which allows a full picture, streamlined approach to solving a problem for our clients.

•• **Our Project Directors are actively involved in every project, and we pride ourselves on being approachable and transparent.** This means clients can always count on us for clear, reliable support. •• Gavin Wearne; Director, Ports & Marine



Process engineering

Agilitus' process engineers have amassed considerable experience in mining, mineral processing, hydro and pyro-metallurgy, with specialist expertise in areas such as metallurgical test work management, process modelling, flowsheet development, commissioning, operations and maintenance.

Delivering bespoke design for projects with a focus on optimising costs and increasing circuit efficiencies.

Our team is committed to delivering renewables-based hydrogen and ammonia projects. We bring relevant experience in H₂ and NH₃ production. This includes process design and novel technology development for H₂, process safety, hazardous area classification as well as operations and management support for large scale air separation unit.

From concept/trade-off studies to detailed engineering and commissioning support, our specialised team offers full engineering and design services, procurement management and construction management services.

Collaborating with our clients, we tailor our approach to meet project requirements. We provide support in process activities, such as process design, mass and energy balances, process optimisation, and concept studies, whilst maximising the use of recycles and renewable resources.

Key Capabilities

- Alumina (Bayer Process) and High Purity Alumina (HPA)
- Lithium plants (Hard Rock and Brine)
- Rare Earths
- Nickel
- Vanadium
- Phosphate
- Gold
- Iron Ore
- Copper
- Petrochemicals & Chemicals

Project Phases

Our Process team offers services throughout the project lifecycle covering concept, PFS, FS and Detailed Design through to construction and commissioning support.

Key Capabilities

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



Gold Mine Operation

Client: Undisclosed

An Australia gold producer engaged us to conduct a Safety Study and Process Engineering Review of an existing elution circuit at its mining operation.

The extensive study included the delivery of a HAZOP workshop to address engineering improvements, resulting from the site's recent production upgrade.

Agilitus works package included reviewing and updating the Process and Instrument Diagrams and the operational documents.

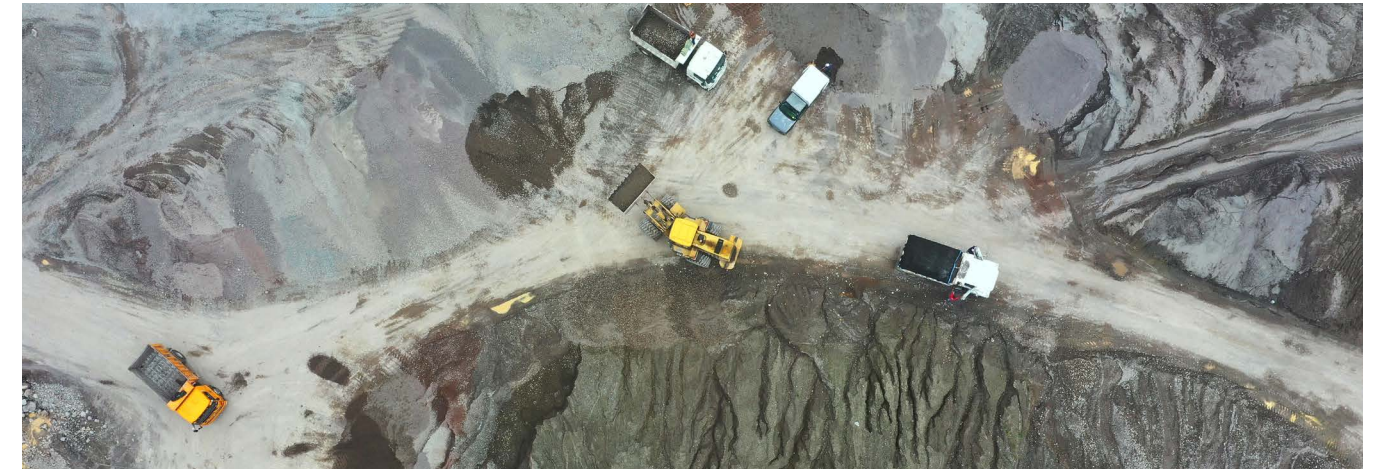
Our team assessed the elution columns, acid wash columns, and other ancillary equipment in the gold recovery area. Detailed design for few major upgrades have also been completed.

After the update of the elution circuit, we reviewed hazards and risks associated with acid wash and elution columns which included:

- Assisting with action plan post regulatory inspections from Western Australia Department of Mines, Industry Regulation and Safety (DMIRS)
- Designing the valves that enable dam operations to isolate elution columns
- Identifying hazards and operability issues based on the design post upgrade
- Conducting a HAZOP workshop
- Improving the procedures and permits for safe operation and maintenance of Elution Circuit



Project delivery



Providing end-to-end project delivery services for Greenfield developments, Brownfield improvements and fully integrated mine-to-port projects to maximise capital expenditure and asset performance.

Building on our technical expertise, the Agilitus team has developed a reputation for successfully delivering projects under a range of models, including Owners' Engineer and Engineering, Procurement and Construction Management (EPC). We are a trusted Project Delivery partner, delivering value-adding benefits to clients.

We also act as a single point of contact for our clients working as an EPC Contractor, Owners' Engineer, Project Manager, Engineering Consultant or Commissioning Manager. Our flexibility enables us to tailor the project delivery model best suited to your needs.

Our Approach

As a preferred project delivery partner, we coordinate all design, procurement and construction work on behalf of our clients to ensure projects are delivered safely and sustainably, on-time and on-budget with quality and performance integrated throughout.

The foundation of our success in project delivery lies in having a flexible and efficient approach, understanding our clients' drivers, influences and objectives and establishing appropriate governance and controls.

Our end-to-end technical capabilities are comprised of quality engineering and design, effective procurement strategies including contracts, and tenders alongside robust construction.

Our Difference

Fostering trust and teamwork is at the heart of our approach. We take the time to understand the needs and objectives of our clients, and partner to develop the optimal delivery strategy for projects.

Our comprehensive services and unprecedented depth of knowledge across all phases of the delivery lifecycle enable our clients to maximise the life and profitability of their assets while minimising risk and downtime.

Agilitus applies advanced technologies, value engineering techniques and industry best practices to minimise schedule and cost variations while optimising the constructability, maintainability and operability of assets.

Leveraging our team's ingenuity, multidisciplinary engineering skills and in-house expertise, we provide contemporary advice on program strategies with support and leadership to enable a seamless transition throughout the delivery process.

Our strengths are in the development of innovative designs and our pragmatic approach to providing unique solutions to complex engineering problems. We understand the importance of communication and collaboration and always adopt a best-for-project lens to the decisions we make.

Client Benefits

- Rapid deployment of projects
- Flexible delivery model
- Client-led decisions
- Staged engagement
- Resource certainty
- Efficient systems & processes
- Lower risk and operational disruption
- Best-for-project outcomes

Key Capabilities

Engineering

- Scoping and Feasibility Studies
- Concept Design, Detailed Design and Documentation
- Value Engineering and Optioneering
- Remedial Works and Durability Assessments
- Asset Management and Optimisation
- Inspection and Maintenance
- Independent Verification and Certification
- Decommissioning and Rehabilitation

Procurement

- Pre-Contract Support including ECI and Tender Management
- Bid Evaluation including Technical, Commercial, Schedule and Construction
- Post-Contract Award including Package Management and Progress Reporting
- Quality Management including Inspections, FATs and ITPs/MDRs

Construction Management

- Sub-Contractor Management
- Client Engineering Representation
- Project Controls (i.e. Scheduling, Cost Management, Quality, etc.)
- HSE Management and Support
- Progress Claim Assessment and Certification
- HSE Support

Completion and Commissioning

- Completions Management
 - Systemisation Plans
 - Walkdown and Handover Planning
 - A-ITR Coordination
 - Vendor Coordination
- Commissioning Management
 - Commissioning Management (from Pre-Commissioning to Handover)
 - Commissioning Management Plans
 - Commissioning Planning and Schedule Development
 - ITR matrix, ITR Management and Handover Dossier
 - Compilation
 - Vendor Management
- Operations Readiness Support
 - Stakeholder Management
 - Ramp-Up Planning

Commercial

- Project Controls including P6 Planning, Scheduling and Impact Analysis
- Project Commercial Guidelines, Templates and Flowcharts
- Clarifications and Claim Management
- Supply Chain Management and Strategies
- Cost Management
- Risk Management and Root Cause Analysis

Crusher Structural Remediations

Client: Dacian Gold

We assisted with the resolution of the structural dynamics with on-site vibration monitoring.

Initially engaged to undertake independent structural analysis and recommend remedial works required to mitigate risk of future damage; Agilitus also worked with ALS who undertook on-site measurement to confirm high risk areas and provide Dacian Gold with a strategy to minimise risk of future damage without loss of production.

Our specialist engineers completed engineering and design for the brownfields crushing system structural remediation.

Following the completion of the design to IFC stage, Agilitus' Project Delivery Team managed the works on behalf of the client both off-site and on-site including:

- Estimating, planning, scheduling and procurement on behalf of the client.
- Management of procurement.
- Project Construction Management of subcontractors during the execution phase.

Image: Crusher at Mt Morgans Gold Mine, Laverton WA.



Pumping & piping engineering

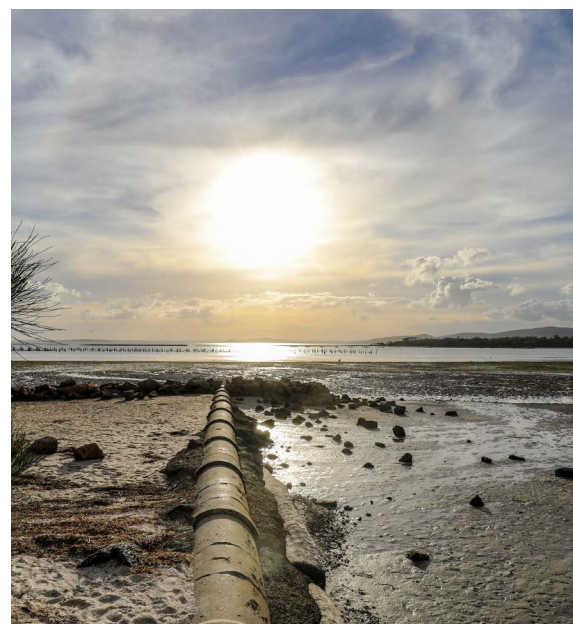
Specialising in mineral and chemical process pumping and piping engineering.

Agilitus has a long-standing 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 and process water handling.

We use the latest technology, software applications and in-house 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 investigations into pump operations.



Pump Transfer Station – Mardie Salt and Potash

Client: BCI Minerals

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 300m 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.

Key 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
- Multi-stage 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
- Gravity Flows and Launder Designs



Jamie Cigulev
Program Manager, Sustaining Capital

At Agilitus, we pride ourselves on being **innovative thinkers who consider every angle to deliver holistic, effective, and cost-efficient solutions.** We're big enough to handle large-scale projects but nimble enough to adapt and communicate easily, ensuring we make the most of what's available.

Jamie leads our mechanical engineering team, bringing expertise in conveyors, piping, and non-process infrastructure across iron ore, gold, rare earths, lithium, and industrial chemicals. He thrives on tackling brownfield design challenges and leading multidisciplinary teams. With a focus on collaboration and smart design, Jamie delivers projects that exceed client expectations while staying on budget and schedule.

Structural engineering

Leading the development of advanced construction techniques in the areas of process plants, industrial buildings and large infrastructure assets.

Agilitus has expertise in both traditional and prefabricated construction techniques including heavy lifting of oversized pre-cast structures, temporary works and strengthening of existing structures for construction loading.

We specialise in addressing complex technical challenges that directly impact asset performance. Whether we're improving existing structures or developing new solutions, our goal is to deliver practical and cost-efficient outcomes. We approach each project with a focus on creativity, constantly seeking better ways to achieve results.

Key Capabilities

- Mines and Process Plants
- Non-Process Infrastructure (NPI)
- Ports and Loadout Facilities
- Aerodrome/Airport Facilities
- Modular Accommodation Villages and Housing
- Tailings Storage Facilities
- Diesel Fuel and Liquid Natural Gas (LNG) Infrastructure
- Industrial Facilities
- Water Treatment Plants
- Value Engineering



“We champion empowerment at every level. Seeing both **junior and senior team members step up with bold ideas and fresh perspectives** is a testament to how our **supportive culture fuels growth and creativity.**” Keith O'Connor; Discipline Lead, Structural



Transport Steel

Client: Laing O'Rourke

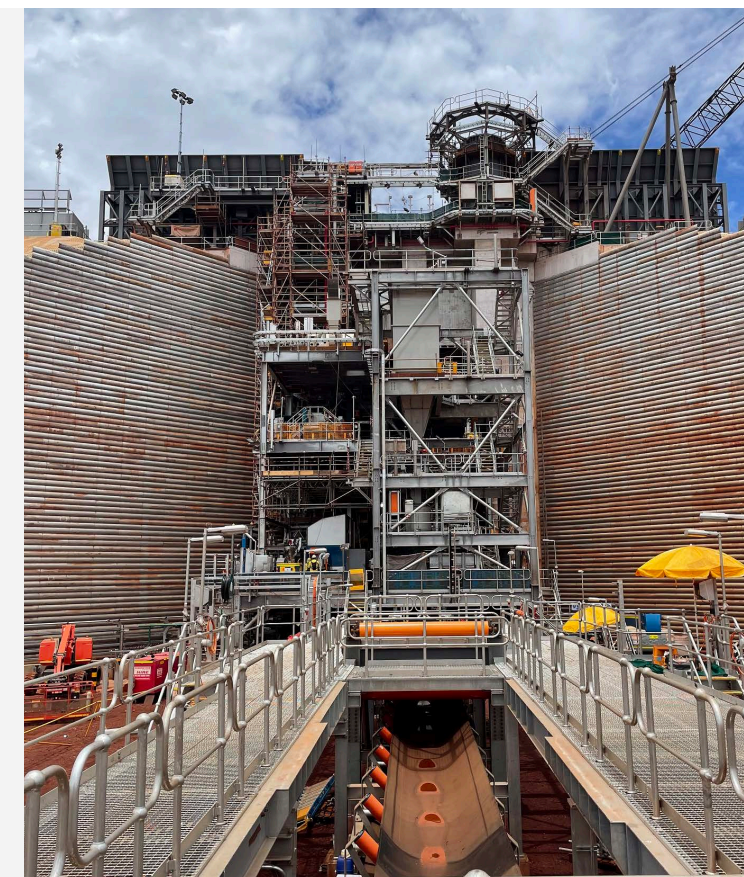
Laing O'Rourke required the design and documentation of transport steel to allow a modularised solution for construction.

Agilitus was engaged to design and document the Transport Steel to allow a modular construction solution for Rio Tinto's greenfield mine expansion project - the Koodaideri Phase 1.

Transportation Steel incorporates all steelwork that is required to strengthen or support the modules during transport by land or sea and during lifting.

A few years ago, members of our Structural Engineering team completed a similar transport steel design for Laing O'Rourke for the Roy Hill Package 3 steel modules. Many of the lessons learned during this project were implemented for the Koodaideri modules project.

Images above and on the right: Koodaideri Phase 1 – Pilbara, WA.



Keith O'Connor
Discipline Lead, Structural

Think of us as your problem-solving partner. We're always ready to go the extra mile to deliver results that truly make a difference.

Our strength is built on our team's diverse skills and knowledge, which span from design and structural integrity to project management. What sets us apart is our inclusive ethos—we promote open communication within our teams, encouraging different perspectives and approaches to problem-solving. This collaborative spirit ensures a comprehensive approach to every project.

We not only manage risks but also collaborate closely with clients to find solutions that solve immediate issues and prepare for future needs. This proactive approach helps our clients thrive in a competitive landscape by ensuring sustained success and growth.

Tailings management, mine closure & rehabilitation

Optimising Tailings Storage Facilities and Managing Mine Closures and Rehabilitation.

Agilitus offers an integrated approach to managing tailings and mine waste for minerals across the full lifecycle of TSFs including meeting all standards – GITSM, TSM and others.

Our experienced ground engineering specialists collaborate with our clients to create holistic solutions at any stage of the lifecycle of TSFs. This is achieved by developing a thorough understanding of the specific risks and hazards of your site.

Our expertise with tailings includes hydraulically-placed slurry, thickened paste and filtered drystack operations. Our designs consider the overall site-specific constraints and opportunities for optimal disposal, such as upstream, downstream, centreline, and integrated waste landforms or in-pit disposal.

•• The team has a reputation for **finding more cost-effective design solutions** for our clients' problems which meet all regulatory requirements within the ANCOLD guidelines, GITSM and regulatory authority requirements. We **start with a big picture view of our client's challenge and develop a thoughtful approach. This enables us to develop agreed fit-for-purpose designs.** ••

Jason Fong; Director, Transport

Key Capabilities

Mine Closure and Rehabilitation

- Landform Design
- Closure Support
- Cost Estimation & Provisioning
- Risk Assessments & Gap Analysis
- Water Quality Assessment & Management
- Stakeholder Engagement Strategies including Cultural Heritage Management
- Groundwater and Hydrogeology
- Mine Waste Characterisation
- Soil Assessments
- Geospatial Modelling, GIS, UAVs
- Integration of Closure & Rehabilitation Plans into LoM Plans
- Rehabilitation Advice and Supervision



Mt Marion TSF

Client: Mineral Resources

We developed a TSF Operating Manual for an existing in-pit disposal site in consideration of new environmental operating requirements and the practical needs of the Operations team on site.

Change management was required to address some of the new compliance requirements and historical disposal activities.

Change of project Engineer of Record part way through the process caused some disruption and delays to project delivery.

Outcomes

A live tailings operations manual was developed following facilitated meetings between the Operations, Environmental and Corporate management teams.

The site is now operating under the new manual with no identified issues.

Jason Fong

Director, Transport

The team **approaches challenges with the experience of seasoned specialists with expertise across the entire whole lifecycle of tailings storage facilities.** This includes design focussed on whole-of-life costs and operational optimisation. Few teams have a mix of personnel with deep operational experience who can enhance the safety and functional performance of TSFs.



Jason has led numerous geotechnical design projects aimed at optimising the functional performance of tailings storage facilities, waste rock dumps and other mine infrastructure. He has also been involved with construction phase services to ensure that the built product meets design requirements, monitoring and auditing of facilities for safety, and more recently, engineering related rehabilitation. Jason enjoys identification and management of site-specific challenges.

You're in Good Company

We work alongside many notable companies across Australia.
Some of our clients include:



RioTinto



BHP



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We have a new name.

Allow us to reintroduce ourselves.
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