



Corporate Profile & Capability Statement



Introduction	2
Company Overview	3
Vision, Mission and Values	4
Our History	5
Corporate Information	7
Capability Statement	8
Project Management	9
Construction	10
Fabrication	12
Safety, Sustainability & Systems	14
The Mineforce Approach	14
Sustainability	14
Quality	14
Environment	15
Community	15
Projects	16
Diatomaceous Earth Processing Plant	16
Berth 8 Upgrade	18
Ernest Henry Mine Headframe	20
In Pit Dewatering	22



Introduction

Mineforce – Integrity, Reliability and Excellence

In the mining and civil construction industries, Mineforce proudly stands for integrity, reliability and excellence. We have built our reputation on successfully delivering challenging projects safely, on time and to a high quality standard. For us reputation is everything!



Company Overview



Mineforce Australia Pty Ltd is a leading mid-level construction and steel fabrication company based in Townsville. Mineforce Australia has built an enviable record of consistent success in the delivery of challenging projects throughout regional and remote Australia safely, on time and to a high quality standard.

Mineforce Australia has delivered positive outcomes for clients on construction and fabrication projects up to \$50 million. The company's growth has brought together a capable and diverse team of management and staff as it has continued to build the range of services it offers.

Mineforce Australia has established an efficient and well managed offshore fabrication capability, allowing the company to meet the demands of large construction projects with a quality product,

competitive price and significant time savings. This competitive edge is one of a number of factors that allow Mineforce Australia to exceed client expectations on a regular basis, across the full range of services the company provides.

Mineforce Australia offers three key services:

- Project Management
- Project Construction
- Steel Fabrication

The key to Mineforce Australia's success is the set of core values that underpins an organisation committed to understanding client and project needs, delivering flexibility in meeting these needs, consistently meeting agreed outcomes for our clients and business partners, and maintaining a focus on excellence in all areas of operation.

Vision, Mission and Values

Vision

Mineforce will at all times be -

- **respected** for our integrity when dealing with clients, partners and our workforce;
- **valued** for the quality of the products and services we deliver;
- **admired** for the enthusiasm and expertise of our people;
- **consistent** in our ability to succeed beyond expectations; and
- **recognised** across our industry for our commitment to excellence.

Mission

Mineforce will deliver construction, project management and steel fabrication services across Australia to meet or exceed our clients' expectations. In achieving this, we will maintain our commitment to quality, be flexible in our ability to meet client requirements, be honest in our dealings with others and create acknowledged benefit for our clients and our business partners.

We are committed to maintaining a safe workplace and to maintaining the sustainability of the natural environment in which we operate. We are committed to our team and to the skills, knowledge and shared values that underpin our success.

We will maintain our focus on ensuring Mineforce meets its profit, quality and growth goals.

Values

These values guide and direct all aspects of Mineforce's operations, business development and administrative activities.

- **Integrity** – we will always be fair and honest in our working relationships with our clients, our business partners and each other.
- **Reliability** – our business is built on our ability to deliver on time, every time, this is what our clients expect of us, and what we expect of ourselves.
- **Reputation** – our reputation is paramount to our business, we will always strive to enhance our reputation and to avoid any actions or activities that could damage this valuable asset.
- **Flexibility** – the wants and needs of our clients are our first consideration, we will at all times try to maintain the flexibility needed to understand and satisfy client requirements.
- **Mutuality** – our success as a company can only be sustained if that success is mutual to our clients, our subcontractors, our suppliers and our team.
- **Quality** – we seek to achieve excellence in all areas of our business, in our internal operations and through the consistent quality of the products and services we deliver.
- **Safety & environment** – we are totally committed to our safety and the safety those who work with us, as we are to the sustainability of the natural environment in which we operate.
- **Team** – our success will always be dependent on our skills, knowledge, experience and enthusiasm, how well we work for each other and our collective commitment to excellence.



Image courtesy of Ernest Henry Mine

Our History

Mineforce Australia was founded in 1997 by Martin Hansen, who brought to this new business considerable rigging and steel construction experience in both the mining and civil sectors, along with experience in mine maintenance and plant and equipment demolition. One of the first challenges for the new business was demolishing redundant furnaces and associated equipment from the MIM Copper Refinery in Townsville, a challenge that required removing over 2000 tonnes of equipment. Mineforce quickly established its reputation with MIM as an efficient and reliable operator and went on to undertake a range of MIM projects at the copper refineries, the Port of Townsville and Ravenswood Gold.

In 1998, Mineforce Australia was approached by Prok Major Projects to undertake the mechanical installations for the WMC Phosphate Hill fertiliser project at Townsville Port. This included installing a wide range of material handling infrastructure such

as feeders, conveyors and trippers for both the rail unloading system and the ship loading system. Mineforce successfully completed the project on schedule, building the company's reputation and providing a solid platform to engage on a range of larger projects.

Xstrata's acquisition of MIM Holdings in 2003 led to a further strengthening in business relationships, and Mineforce was invited to tender the supply of all rigging and scaffolding services for the annual re-bricking shutdown at the Mount Isa Mine site, including the replacement of insulation and stainless steel cladding to the mine's main gas stack. Mineforce was successful with its tender submission and completed all the work to tender requirements. The company went on to provide services to a range of Xstrata divisions across the Mount Isa region over the next six years, growing its workforce to over 100 personnel in the process.



From the beginning, Mineforce was involved in work that required refurbishment or small scale fabricated items to complete construction and installation projects. The company initially established a small fabrication facility for this purpose, but the diversity of jobs offered by Xstrata made the need for a full steel fabrication and machining workshop obvious. Mineforce established its current workshop facility in Townsville in 2005, then expanded the facility to double its size in 2009, installing over \$1.4 million in new machinery. This expansion was undertaken to retain key personnel during the global financial crisis and proved an astute decision, as the facility has strengthened the company's long-term competitive position. Mineforce now operates one of the best equipped steel fabrication and machine shops in North Queensland.

At the urging of a colleague, Martin Hansen visited China in 2007 to inspect a range of major steel fabrication workshops. It was evident that, with a strategic approach to managing quality, Mineforce could develop the capacity to deliver large scale supply projects not previously available to, or be considered by, a company of this size. Seizing the opportunity, Martin established a partnership with a major workshop and most importantly, developed a detailed strategy for quality control. Ongoing research and effective management has resulted in offshore fabrication becoming a major factor in the growth and success of Mineforce.

Since 2008, Mineforce has grown its capability to deliver major steel fabrication projects from its offshore partners, within schedule, meeting or exceeding all Australian standards and with substantial cost savings for the client. Mineforce

augments its international fabrication capacity with the Townsville-based fabrication and machine workshops, providing the ability to separate and fabricate individual sections and deliver on very short timeframes.

In 2012, it was this combined local and international fabrication capability that enabled Mineforce's engagement in Stages 2 and 3 of Ernest Henry Mine's new Headframe, part of the 'Life of Mine' extension and transition from open cut to underground mining. This project comprised the fabrication, delivery and construction of 1,200 tonnes of steelwork. Mineforce was contracted to meet a delivery time of 16 weeks and delivered all steel on site, to specification and prior to it being required for construction. Mineforce achieved similar outcomes in undertaking construction of Glencore's new bulk handling facilities on Berth 8 at the Port of Townsville, with the first of the major steel deliveries on site one month ahead of scheduled requirements.

In 2013, Mineforce undertook a major review of its operating structures and strategic planning processes resulting in a new five-year Strategic Plan for the company. This strategic plan is reviewed annually and forms part of the overall commitment to continual improvement by Mineforce and will ensure the continued growth and viability of the company into the future.

Mineforce has developed its project management capabilities to successfully undertake SMP and EPCM contracting roles. Mineforce maintains a professional and specialised Project Management team with the appropriate skills to manage the range of projects the company undertakes.

Corporate Information

Mineforce Australia Company Information

Full legal name of the Company	Mineforce Australia Pty Ltd
Trading or business name/s	Mineforce Australia
Legal status of the business (e.g.: registered company, sole trader, partnership)	Registered Company
State of incorporation	Queensland, Australia
Australian Company Number (ACN) or other entity identifier(s)	ACN – 080 955 648
Australian Business Number (ABN)	ABN – 82 080 955 648
GST Status	100% registered
Head Office Address	7-8 Reward Court, The Bohle QLD, 4818
Postal Address	PO Box 7566, Garbutt QLD, 4814
Telephone	07 4759 0300
Fax	07 4759 0333
E-mail	info@mineforce.com



Capability Statement

Mineforce Australia is a privately owned Townsville based company that offers project management, construction and fabrication capabilities.

Project Management

At Mineforce Australia, we help our clients achieve their organisational objectives through offering EPC and management services.

We deliver a range of key benefits to our clients based on our operational flexibility, our reliability as a partner and our commitment to delivering mutual success for our clients and our suppliers.

Our Approach

Our project management approach is based on ensuring we have an initial comprehensive understanding of our clients' specific needs in relation to the project and more importantly, the outcomes they are striving to achieve. With this knowledge, we are able to:

- Review proposed construction methods and apply our expertise to develop initiatives and ideas for achieving efficiencies in both time and cost.
- Form close partnership with our clients, including project managers, contract representatives and operational managers, to ensure key drivers of safety, cost, time, quality, scope and above all, client satisfaction are understood and delivered across all areas of the project.
- Establish a tailored fit of people and processes to achieve targeted project outcomes, as we understand that every client and every project is unique.
- Mobilise a project team that owns and understands the Mineforce values and integrates these values with those of the client.
- Initiate risk management processes that ensure input from all project stakeholders and facilitate early risk identification and regular review.

Core Capabilities

- Identifying and delivering benefits to our clients through all stages of the project life cycle.
- Providing the full suite of services including design, detailing, fabrication, construction and commissioning.
- Utilising the strengths and expertise of our multi-disciplined team to deliver results in Civil, SMP and E&I projects
- Providing people and services that complement our clients existing internal systems and people.
- Being flexible and adaptable to meet client's needs, including assisting with change management to identify risk and corrective actions.
- Measuring and monitoring the project variables against project management plans and performance targets.
- Manage all areas of the project through:
 - i) Beyond Software – a cloud based collaborative program with an automated time and billing system and real time visibility into projects. This software streamlines our project processes creating efficiencies in delivery.
 - ii) Microsoft Project – Facilitates project planning and scheduling including critical path identification and monitoring to keep projects on track.

Projects Experience

Our experience in delivering benefits for our clients has come from projects throughout Northern and Central Queensland. We have successfully delivered projects up to \$50 million, and target work in minerals processing, materials handling and general heavy construction.

See Projects



Construction

Mineforce Australia has been successfully delivering projects in mining, marine, industrial and civil construction for over a decade. During that time, we have built our reputation for reliability by consistently delivering projects on time and on budget. We support this with the operational flexibility needed to meet client demands and the ability to deliver innovative and effective solutions. We have a track record of successfully completing projects in challenging environments.

Mineforce provides high levels of project control and productivity through a multi-disciplinary and experienced team of construction specialists. We support our projects with quality onshore and offshore fabrication services.

Our approach

When initiating any construction project we consider it critical to ensure our planning and documentation clearly highlights the required project outcomes and deliverables. With this knowledge, we can:

- Prioritise safety in our work processes through Safety Management Plans, Risk Assessments, Project Risk Registers, Safe Work Method Statements and Job Safety and Environment Analyses.
- Establish systems of work with our client that address the safety, quality, scope and schedule requirements and that are benchmarked against our minimum standards.

- Implement recruitment processes to build a team with the experience, skills and qualifications needed to complete the project, along with the attitude, enthusiasm and commitment to embrace the Mineforce Australia values and express these values across all areas of the project.
- Develop innovative options and solutions to the challenges and issues that inevitably arise in any project to enable our clients to make informed decisions on the best way forward.
- Maintain strong and effective partnerships with all stakeholders in the project through the integrity of our dealings with clients, business partners and employees, and by establishing a working environment based on fairness, honesty and mutual respect.
- At all times work to meet or exceed industry standards.
- Reinforce our company value of reliability by delivering on our promise.

Core Capabilities:

- Structural steelwork
- Platework, including chutes, hoppers, silos, tanks
- Wear linings
- Mechanical including pumps, motors, feeders, screens, grizzlies, trommels, pulleys, drives, conveyor belting,
- Steel and alloy Piping
- Civil and concrete works
- Water storage systems
- Production, storage and distribution facilities
- Plant relocation
- Heavy lift craneage
- Plant maintenance and shutdown services
- Material handling systems
- Electrical and instrumentation
- HDPE piping
- HVAC and other service ducting



Fabrication

Mineforce Australia offers clients significant flexibility in the range of fabrication services it can deliver, from production of small individual items that may be needed on site urgently to large construction fabrications over 1000 tonnes. This flexibility is based on a well-equipped fabrication and machining workshop facility in Townsville (over 2400m² undercover), and offshore fabrication facilities with the capacity to deliver large project fabrication requirements on time and to Australian quality standards.

Mineforce has achieved outstanding success in the production and delivery of offshore fabrication services through our rigorous adherence to production quality systems and our requirement that Mineforce representatives monitor all production activities in the country. Further to this, we ensure all offshore fabrications are subject to comprehensive testing prior to leaving the workshop, delivering a high quality product that consistently exceeds client expectations. Mineforce understands quality is paramount, and while this approach means we will not be the lowest cost offshore fabricator, it does ensure we can consistently deliver a quality, cost competitive product, within agreed timeframes.

Fabrication Services

- Detail drawings
- Plate work
- Structural Steel
- Vessels and tankage
- Stainless steel chutes and piping
- Conveyor components
- Heavy machining
- CNC machining and bulk components
- Pipe work and rubber lining
- Linings including wear and hardfacing
- Large scale offshore fabrication facilities (over 500 tonnes)

Fabrication Facilities

- 1600m² undercover
- 3 x 10 tonne Overhead Traveling Cranes
- 1 x 5 tonne Overhead Traveling Crane
- Plate Rollers: 25mm grade 250 plate x 3,200 mm wide capacity
- Brake Press: 12mm grade 250 plate x 4,000 mm wide capacity
- Guillotine: 12mm grade 250 plate x 4,000 mm wide capacity
- CNC Profile Cutter: Bed 3,200mm x 9,000mm, Plasma cutting to 10mm thick plate , Oxy Fuel cutting to 80mm thick plate.
- Punching: 22mm diameter in 20mm plate / 50mm diameter in 12mm plate
- Flat Bar Shearing: 300mm x 20mm flatbar capacity
- Round Bar Shearing: 45mm Diameter capacity
- Square Bar Shearing: 45mm x 45mm capacity
- Angle Shearing: 150mm x 150mm x 12mm Equal Angle capacity
- Welding Rotator: 1,200mm diameter x 3 tonne capacity
- Welding Manipulators
- Mig, Stick and Tig welding processes

Machine Shop Facilities

- 800m² undercover
- 1 x 2 tonne Overhead Traveling Crane
- 1 x 5 tonne Overhead Traveling Crane
- Conventional Lathe 2,700mm between centres with 1,200mm swing over bed
- Conventional Lathe 1,900mm between centres with 270mm swing over bed.
- CNC Lathe – 1,450mm between centres with 300mm swing over bed
- CNC Milling –1,000mm x 550mm x 550mm
- 300 tonne H Press





The Mineforce Approach

The Mineforce approach to sustainability in our business is based on an Integrated Management System committed to delivering continual improvement across our health and safety, environmental, quality and industrial relations performance.

This approach focuses on four key areas of responsibility:

- Protecting our people and those who share the workplace with us
- Delivering a consistent and quality product
- Nurturing the community in which we work and live
- Maintaining the natural environment in which we operate.

As we expand our capabilities to deliver more complex and diversified projects and complete project delivery solutions for our clients, our existing policies and systems are being continually reviewed and revised to support alignment and growth, and to add value for our clients. All policies and systems are actively communicated to personnel to ensure we achieve compliance and continuous improvement.

Sustainability

Sustainability is integral to the governance of our company and at all times we strive to deliver sustainable outcomes for our clients, our people, our suppliers and the community in which we work. We constantly identify opportunities to improve our safety and environmental practices and seek to balance the interests of all stakeholders against the demands of business to achieve sustainable health, safety and environmental outcomes.

We recognise our clients' expectations that we deliver exceptional safety and environmental practices at all times. We accept our responsibility to understand our clients' safety and environmental policies clearly and ensure we consistently meet or exceed these requirements.

We consider our integrated Health, Safety and Environmental (HSE) system, aligned with Australian Standards AS 4801 (Occupational Health and Safety Management Systems) and ISO 14001 (Environmental Management Systems) to represent best practice in safety and environmental management.

Safety

At Mineforce, the safety and security of our people and those we work with is our number one priority. Our health and safety management system has been RABQSA assessed as compliant to AS/NZS 4801:2001

We aim to achieve and maintain best practice in our approach to workplace safety at all times. We have worked consistently to develop a strong workplace safety culture within Mineforce, based on integrating safety as a core value of our business. This approach is based on all staff members understanding they are responsible both individually and within their teams for maintaining a safe workplace, for themselves and for those who work beside them.

Our approach to workplace safety is proactive, based on a thorough approach to identifying and documenting risk in the planning phase of projects, in the day-to-day operation onsite and in the workshop environment. This is managed through a comprehensive safety program aimed at:

- Providing safety leadership in all areas of operation while encouraging input from staff and stakeholders
- Communicating operational risks and constantly updating risk information
- Accurate reporting and analysis of safety performance including feedback from clients and other stakeholders
- Achieving best practice in workplace safety across all areas of operation.

Quality

Mineforce Australia is accredited with a well-recognised Certifying Body for ISO 9001:2015 Quality Management System. To ensure



compliance and continuous improvement in our quality systems, we undertake a regular auditing programme. Our auditors have completed the Internal Auditor Training program with a well-recognised Certifying Body to provide independent and objective assessment of compliance.

All local and offshore fabrication activities, from material procurement to packaging, are consistently monitored and undergo comprehensive and rigorous inspections to ensure quality of products is maintained at all times. Our overseas alliance companies are accredited in accordance with National GB/T 19001-2000 ISO and ISO 9001-2000 standards.

Environment

Mineforce recognises its responsibility to maintain sustainable environmental practices across all areas of our operation. We believe our approach based on constantly pursuing opportunities to reduce our environmental footprint and minimise our carbon output is not just good for the environment, but is also good for business.

We encourage our staff to have an input in our environmental management systems and generate ideas to make our business operations more energy efficient and environmentally friendly.

At all times we take account of the environmental policies of our clients and work within these policies to support and sustain the environmental objectives of each project we undertake.

Community

Mineforce Australia recognises the importance of community and its responsibility to engage with the communities across the areas in which we operate. As a company, we are particularly focused on supporting young people of our community, our future, and providing sponsorships and other support to youth based activities and organisations.

Wherever possible we seek to engage with Australia's Indigenous community, to provide opportunities for employment, training and development. We recognise that many of our business partners work closely with the Traditional Owners of the country on which they operate to provide business opportunities for Indigenous suppliers and training and development opportunities for Indigenous staff. Mineforce Australia is fully committed to working with our partners to support and assist their Indigenous engagement programs.

Projects

Diatomaceous Earth Processing Plant

Client:	Agripower Australia Pty Ltd
Location:	Charters Towers North Queensland
Timeline:	June 2018 – September 2019
Contract Value:	\$20.5 million
Contract Type:	Lump Sum and SOR
Services:	Principal Contractor including Concrete construction, Structural Detailing, Structural, mechanical and Piping, Electrical and Instrumentation

Client Need

Greenvale Silicon Pty Ltd is a wholly owned subsidiary of Agripower Australia Limited. They currently own the mining rights to the world's largest freshwater deposit of diatomaceous earth located approximately 130 kms north of Greenvale in North Queensland. Due to increasing world demand for superior silicon fertilisers and soil amendments Agripower have invested in a new 240,000 tonnes p/a processing plant in Charters Towers North Queensland as the first part of the overall strategy in producing in excess of 1 million tonnes per year.

Project Description

Mineforce were engaged as the principal contractor and was responsible for Project Management, structural detailing, concrete construction, structural mechanical and piping, electrical and instrumentation. Mineforce and our strategic subcontract partners completed the works on time, without injury and to the complete satisfaction of our client.

Scope of Work

- EPC Contract
- Principal Contractor
- Structural steel detailing
- Concrete construction
- SMP Fabrication and installation
- Electrical and instrumentation
- Commissioning assistance

Highlights & Achievements

- Contractor of choice for a turnkey operation first of its type in Australia.
- Completion on time ensuring our clients production commitments were met.
- In excess of 30,000 man hours without injury.



Berth 8 Upgrade

Client:	Xstrata Copper
Location:	Townsville Port
Timeline:	2012 - 2014
Contract Value:	\$22 Million approx.
Contract Type:	Lump Sum
Services:	Design & Detailing, Offshore & Onshore Fabrication, Structural, Mechanical, Piping, Civil & Electrical Installation

Client Need

Xstrata Port Operations undertook a major initiative at the Townsville Port to relocate its shipping operations from Berth 7 to Berth 8 and in the process to significantly increase the loading capacity of mineral concentrates and other bulk materials. As part of the upgrade, two new conveyors were installed, as well as a new ship loader and associated bulk material handling infrastructure that was designed to increase capacity from 1200 tonnes per hour to 3000 tonnes per hour. The project involved delivery of more than 1000T of steel and the completed works by Mineforce plays an integral part in safeguarding future exports for Xstrata Copper and its partners.

Project Description

Mineforce was responsible for the design, detailing, fabrication and construction of the CV10 tubular conveyor and detailing, fabrication and construction of the remainder of the new bulk material handling infrastructure. The new infrastructure links storage facilities adjacent to Berth 7 to the new shiploader on Berth 8. Mineforce was responsible for civil, structural, electrical, mechanical and piping works.

Scope of Work

- EPCM Contract
- Design, fabricate and erect CV10 Conveyor
- Fabricate and erect 3x Transfer Towers
- Fabricate and erect CV11 Conveyor
- Fabricate and erect steelwork and precast panels for MCC Building
- Install Tripper Car and 400T shiploader
- Carry out electrical works on all the above
- Tie-in and commissioning of system

Highlights & Achievements

- The new infrastructure has more than double the capacity of current facilities and allows for significant future expansion of bulk materials exports including zinc concentrates, lead concentrates, magnetite and fertilizer.
- Timely completion ensured our client's critical operations were removed from aging assets on Berth 7.



Ernest Henry Mine Headframe

Client:	Ernest Henry Mining
Location:	Ernest Henry Mine, Cloncurry
Timeline:	2011 - 2013
Contract Value:	\$6 Million approx. (combined)
Contract Type:	Lump Sum
Services:	Detailing, Onshore & Offshore Fabrication, Structural Installation

Client Need

The Headframe Erection project for EHM is an integral part of the mines transition from open cut to underground mining. It involved the construction and installation of a temporary Skyshaft and Winder Building for the shaft sink, followed by the installation of a 70m high Headframe and permanent Winder Building. This infrastructure was fundamental in boosting efficiency and effectiveness of mining operations and subsequent extension of life of mine.

Project Description

Mineforce was initially engaged for the erection of the new permanent Headframe. During stage one erection, Mineforce was further engaged to fabricate stages two and three, being approximately 700T for the upper Headframe steelwork and a further 400T for the permanent Skyshaft. The award of these further fabrication contracts to Mineforce was in an endeavor to expedite the remainder of the Headframe installation that had fallen behind schedule due to shaft sinking activities.

Scope of Work

- Erection of temporary Skyshaft and Winder Building
- Erection of lower Headframe – 530T
- Fabrication of upper Headframe in overseas facility and Townsville workshop
- Erection of upper Headframe – 700T
- Fabrication and erection of Winder Building
- Fabrication of Skyshaft in overseas facility and Townsville workshop – 400T
- Mineforce consistently collaborated with the client and used its construction expertise to complete the structure with minimal disruptions to shaft sinking activities, which were on critical path for project completion.
- Mineforce recommended design changes during constructability assessments to achieve significant cost savings in craneage to the Principal and minimised risks associate with working at height.
- Mineforce was able to mitigate major delays in Principal supplied steelwork by taking over the fabrication of the upper Headframe and Winder Building, driving the course of the project.
- Supply and delivery of 1100T of heavy fabricated steelwork from both our local and offshore fabrication facilities happened well ahead of schedule and without defect.
- Mineforce introduced its new Liebherr LR1300 SX 300T Crawler crane, which safely carried out all major lifts.

Highlights & Achievements

- A challenging concept of this project was working in a limited space onsite with the Shaft Sink contractors. This required significant and thorough coordination between all parties to achieve completion in a safe and timely manner.
- The project was achieved on time.
- This Headframe is only the second to be built on the east coast of Australia in the last decade.



In Pit Dewatering

Client:	Ernest Henry Mining
Location:	Ernest Henry Mine, Cloncurry
Timeline:	2011 - 2012
Contract Value:	\$6 Million approx. (combined)
Contract Type:	Lump Sum and Schedule of Rates
Services:	Structural & Piping Fabrication, Structural, Mechanical & Piping Installation

Client Need

The In Pit Dewatering system at Ernest Henry Mine is used to control accumulation of water within the open pit, following major rain events and emergency water inflows. Mining operations have been severely affected in previous wet seasons and production significantly reduced.

Project Description

Mineforce was responsible for the structural, mechanical and piping installation of four pump stations and interconnecting pipe work. The four pump stations were installed throughout the working levels of the open pit mine. The water is collected in sumps via drainage channels along the pit haul roads, then pumped via interconnecting rising mains (approximately 16km) from one pump station to another, and finally discharged into a designated surface water storage facility for recirculation within the Concentrator.

Scope of Work

- Fabrication of 139T structural steel for all pump stations
- Fabrication of 61T pipe work for all pump stations
- Installation of structural steel and pipe work onsite
- Installation of electrical switch rooms, 10 x 850 kW KSB centrifugal slurry pumps
- Installation of 16km HDPE pipe 630 - 450 diameter
- Joint commissioning of all the pump stations with Xstrata

Achievements and Highlights

- Although the installation of the pump stations was a Greenfields project, it was still necessary to carry out most of the installation during the final stages of the open cut mining process at EHM. Each of the pump stations were constructed on narrow switchbacks and roads, and access ways were shared with heavy mining equipment and haul trucks. No lost time injuries were recorded in this hazardous working environment.
- Safe handling and installation of 16km poly pipe works.
- Project completed to the approved schedule.
- Resolved pipe route clashes with over/under excavation through our detailers and collaboration with the client's team.
- Supply and delivery of 200T steelwork and piping from both our local and offshore fabrication facilities ahead of schedule.





MINEFORCE

Australia

Mineforce Australia Pty Ltd.
ABN 82 080 955 648

7-8 Reward Court
Bohle QLD 4814

PO Box 7566
Garbutt QLD 4814

P 07 4759 0300
F 07 4759 0333
E info@mineforce.com

www.mineforce.com