

Capability Statement

15 Sep 2020

MICRONISED MINERAL SOLUTIONS PTY LTD



INDUSTRIES SERVED

CONSTRUCTION &
ENGINEERING

LAND &
AGRICULTURE

MANUFACTURING

MINING

OIL, GAS & ENERGY

WATER

Company Details

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ICN Gateway Company ID: 95614

Employees: 5

ABN: 67 126 378 318

Local Manufacturer: Yes

Importer: Yes

Works in Remote Locations: Yes

Contacts

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Environmental Transformation

Our passion for environmental transformation drives us to design and manufacture the best products and implement solutions with innovative technology using earth minerals.

Based in the Northern Territory Micronised Minerals are specialists in the supply of high-quality mineral products and whole of service for environmental management in informed, economic and innovative ways and the sole manufacturer of speciality reagent products in Northern Australia.

Our fully integrated service from mine to equipment design to fabrication and accurately blend specialty products to suit clients' requirements provides the expertise and resources expected from a top-level environmental management company. Our environmental treatment programs are long term solutions.

Australian agents for Chememan Ltd products throughout Northern Australia.

Summary

Micronised Minerals are minerals specialists and have developed a comprehensive suite of minerals with proven results with the added capability to tailor blend specialty products to suit each client's unique requirements for environmental management in the mining, oil and gas, industrial, civil and agricultural industries.

Purpose built minerals processing facility strategically located close to Darwin Port and Rail terminal with a range of specialised logistics in handling and delivery options supported by dedicated overhead storage and warehouse.

Sole major manufacturer of speciality reagent products in Northern Australia supplying Calcium Carbonate, Quicklime, Hydrated Lime, Gypsum, Dolomite and Barite.

We have a sound reputation for professional service and the application of know-how to ensure our minerals optimise production and quality and ensure natural resources are used efficiently to minimise a project's environmental footprint.

Description

Based in East Arm, Northern Territory Micronised Minerals are minerals specialists and proven to be a progressive, dynamic force in Darwin's environmental sector. With a vibrant work history, it is a company defined by exceptional financial capacity, reliability and a reputation for transparent communication. Our hands-on approach has gained the respect of industry and provided access to remote mining sites and given our company the opportunity to trial engineering techniques and mineral chemistry solutions for remediation of acid mine drainage.

Micronised Minerals delivers key environmental treatment programs and solutions and is a leading Territory company. We take pride in this legacy and the lessons it instils.

We have the ability to provide whole of service technology from engineering and chemical design - including product development, in-house and third-party laboratory testing and construction of large-scale water treatment systems.

Micronised Minerals provides the Northern Territory mining industry with gold ore processing reagents and solutions to treat acid water inventory. Our innovative treatments provide an economic and positive long-term environmental solution to their mine site remediation responsibilities.

Manufacturer of high-quality industrial calcium carbonate and blended lime reagents to the civil and industrial sectors used for the treatment of acid sulphate soil/soil preconditioning for the construction industry, road

construction stabilisation and mangrove soil treatment projects.

Supply a range of minerals to the Northern Territory agricultural sector as soil treatments for fruit, crop production and broad acre farms to reduce the acidity of soil, restore the pH balance and to assist soil structure.

Our modern purpose-built facility strategically located close to the Darwin Port and Rail terminal has the capability to provide a complete service vertically integrated from mine to product. Designed around Raymond Mills this minerals processing technology provides efficient control of product size resulting in flexible cost-effective production of superior mineral product.

Capability to provide integrated solutions tailored to meet national and international requirements with our range of specialised logistics in handling and delivery options supported by dedicated storage of overhead and horizontal silos, laydown area of 8,000 sqm and fleet of ISO and road tanker trailers.

Micronised Minerals products: Calcium Carbonate, Quicklime, Enviro Catalyst (mine water reagent), Hydrated Lime, Roadmaker Stabiliser, Barite, Gypsum, and Dolomite.

Our Expertise

Micronised Mineral Solutions was awarded Australian Patent 2013209309 for Method and Apparatus for Acidic Surface Water Treatment (Micro Reactor Technology) in 2018 and is continuing the patent development of its locally developed reagent Enviro Catalyst. The innovative in-situ acid mine water treatment process is an informed economic innovation for decontamination of acid mine water containing high levels of dissolved metals stored on active and legacy mine sites. When compared to common treatment options used on mine sites, the improvement in water quality and subsequent reduction in toxicity after

using the MMS Reagent has proven favourably in price and detoxification outcomes.

Using our patent technology and locally developed reagent, MMS successfully completed decontamination at Vista Gold Australia's Mt Todd mine water pit of 10.3 billion litres of acidic water. The body of water has transformed from a level of high toxicity to aquatic life to one where 99.8% of metals have been removed. The local fauna and flora recovery including the native frog population were evident post treatment.

Associations

- > National Lime Association
- > NT Farmers Association
- > Civil Contractors Federation NT (CCFNT)
- > Energy Club NT
- > Extractive Industry Association NT
- > Chamber of Commerce NT
- > NT Manufacturers Council
- > International Business Council

Major Clients

- > Kirkland Lake Gold - Northern Territory
- > Northern Minerals Ltd - Western Australia
- > Halliburton Australia Pty Ltd - Northern Territory
- > Energy Resources of Australia - Northern Territory
- > Vista Gold Australia Pty Ltd - Northern Territory
- > Australian Mud Company - Western Australia
- > Monadelphous Group Ltd - Northern Territory
- > MacMahon/John Holland JV - Northern Territory
- > Leightons Contractors - Northern Territory
- > Pacific Aluminium / Rio Tinto - Northern Territory
- > Compass Resources NL - Northern Territory

Industries Served

- > Construction & Engineering
- > Land & Agriculture
- > Manufacturing
- > Mining
- > Oil, Gas & Energy
- > Water

Products & Services

- > Quicklime
- > Hydrated Lime
- > Roadmaker Stabiliser
- > MMS Enviro Catalyst
- > Calcium Carbonate
- > Gypsum
- > Barite
- > Soda Ash Dense

Facilities and Equipment

- > Purpose-built facility close to Darwin Port and Rail
- > Well appointed office, workshop and yard facilities
- > 8,000 Sqm laydown area
- > Loading/unloading of 20'/40' containers up to 32mt's
- > ISOs and road tanker trailers up to 80mt payloads
- > 800sqm undercover storage
- > Secure moisture-controlled container storage
- > Pallets for transport and containerised logistics.
- > Overhead silo storage
- > ISO and mobile horizontal silo storage
- > Front End Loader
- > Forklifts up to 32 tonne
- > Bagging and Debagging equipment
- > 50 tonne weighbridge
- > Provider of vendor and logistical services

Accreditations

- > 2020 Telstra Business Women NT Small Business Award
- > 2018 Awarded Australian Patent 2013209309
- > 2016 Awarded Accelerating Commercialisation Grant
- > 2016 Short listed for Aust Technologies Competition
- > 2016 Finalist - NT Dept Business Ind Innovation Award

Previous Significant Projects

2018

Browns Range project, WA - Reagent supply for HRE Mineral processing
\$500,000

Client: Northern Minerals Ltd

Ongoing supply of fine ground Quicklime for heavy rare earths mineral processing.

2017

ERA Ranger Mine Site - Jabiru Northern Territory
\$700,000

Client: Rio Tinto / Energy Resources Australia

Supply and delivery of 2,000 tonne Quicklime and flocculants for acid mine water treatment

2014

Supply Drilling Grade Barite
\$500,000

Client: Australian Mud Company

Manufacture and supply of drilling grade barite and Vendor services for onshore oil and gas exploration - Beach Energy Kununurra WA.

2013

Mt Todd Mine Pit
\$5,000,000

Client: Vista Gold Australia Pty Ltd

Ongoing treatment of acid mine drainage, Specialists in acid mine drainage treatment and set the benchmark with our whole of service approach in the treatment of 10.3 billion litres of the Mt Todd mine pit acid mine drainage within a four month time frame.

2018

**PowerWater Waste Water Treatment Plant
Ludmilla Northern Territory**
\$700,000

Client: Halliburton Australia Pty Ltd

Supply and delivery of 700 tonnes Quicklime for on-site waste water treatment plant.

2016

Cosmo Howley Mine Site - Acid Mine Water Treatment services
\$4,500,000

Client: Kirkland Lake Gold

Ongoing supply of 8,000 tonnes Quicklime and specialised discharge equipment for water treatment services at Cosmo Howley mine

2014

Supply Reagent to treat acid sulphate soils
\$150,000

Client: Monadelphous Group Ltd

Manufacture and supply of reagent for the preconditioning of backfill for gas pipeline trench for the Inpex Site.

2013

Supply Reagent to treat acid sulphate soils
\$100,000

Client: Leightons Contractors

Manufacture and supply of reagent for the treatment of acid sulphate soils for civil construction works at Inpex Site.

2013

Supply Reagent to treat acid sulphate soils
\$500,000

Client: John Holland & Macmahon Contractors

Manufactured and supplied 2,500 metric tonnes of reagent for the treatment of acid sulphate soils at Inpex Site.

2008

**Alumina Refinery, Nhulunbuy NT
\$25,000,000**

Client: PACIFIC REFINERY

Provision of contingent Quicklime and in-house engineered container discharge equipment system and personnel for the Aluminum refinery at Nhulunbuy, Gove. Managed the supply and transport of over 100,000 tonne of containerised product from 2008 to 2012 into Gove Port until the Refinery Plant closure in 2012. MMS supplied production timelines to Gove Procurement to ensure product was ordered, manufactured, shipped and available when required.

2007

**Brown's Creek Copper, Nickel, Cobalt project,
Batchelor NT
\$2,000,000**

Client: Compass Resources

Mine Site Based Owner Operators of calcium carbonate production facilities
Construction of CaCo₃ 100,000 tonnes per annum milling plant. Manufacture and supply of neutralisation lime for base metal production.



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