

Location



Norseman is located 190 kilometres south of Kalgoorlie, 191 kilometres west of Balladonia, and 204 kilometres north of the Esperance coastline.

The history of Norseman is very much tied to gold mining. Gold mining in the Norseman area began with the chance discovery of gold at nearby Lake Dundas in 1892. A gold rush soon began. Today however the original Dundas fields now lay abandoned.

According to local legend the town of Norseman was named after a horse. It is said that in 1894 a horse named "Hardy Norseman" was tethered to a tree for the night by its owner, Laurie Sinclair. Upon returning to his horse Sinclair had the good fortune to discover that "Norseman" had unearthed a gold nugget. Since then a statue has been erected in honour of Norseman - but not surprisingly it is only cast in bronze!

Today Gold Mining continues to be a major activity with reports that the Norseman fields have produced over 5 million ounces of the precious yellow metal.

Markets & Mine Location



Targeted Markets



Norseman

Our Promise



To constantly improve and give our customers continuous Quality and Deliverables



With our massive reserves , state of the art equipment from mine to the customer with the infrastructure we will be well placed to be one of the largest suppliers of Quality Gypsum from a country with steady government and incentives to do Business

Best Mine Practice



Mining is Conducted under best Mine Practice with care of the Environment with disturbed land turned back to the pre-Mining Operations

Large Reserve



One of the largest reserves now available in the world for quality and quantity .

Current reserves are estimated in excess of 1 billion tonnes with more to be proven ! Simply enough to supply world demand for many years.

Mining



The site has a vast deposits of minerals: Precious Metals, Gold, Lithium, Cobalt, Nickel, Copper, Iron Ore, Gypsum, Concrete Aggregates, Quartz, etc.

Our aim is to be one of the largest construction material suppliers to the United States, Europe, Asia and the World. With the environmental restrictions, it is time to find an alternative that is almost inexhaustible.

Gypsum is one of the most used Minerals in the world from Civil, Manufacturing, Industrial, Chemical, Food and Pharmaceutical to name a few.

Mining, Screening, Stockpiling



Test & Result Samples

Mineral or mineral group	Sample 1	Sample 2
	GYPSUM WHITE - S32°13.817', E121°44.691'	GYPSUM YELLOW - S32°13.817', E121°44.691'
Mass %		
Hematite	0	0
Magnetite	0	0
Goethite	0	0
Zeolite	0	0
Kaolinite	0	0
Amphibole	0	0
Plagioclase	0	0
K - feldspar	0	0
Quartz	2	2
Cryptocrystalline silica	0	0
Gypsum	92	98
Halite	6	0
Dolomite - ankerite	0	0



Plaster &
Drywall Grade



Cement and
Industrial Grade



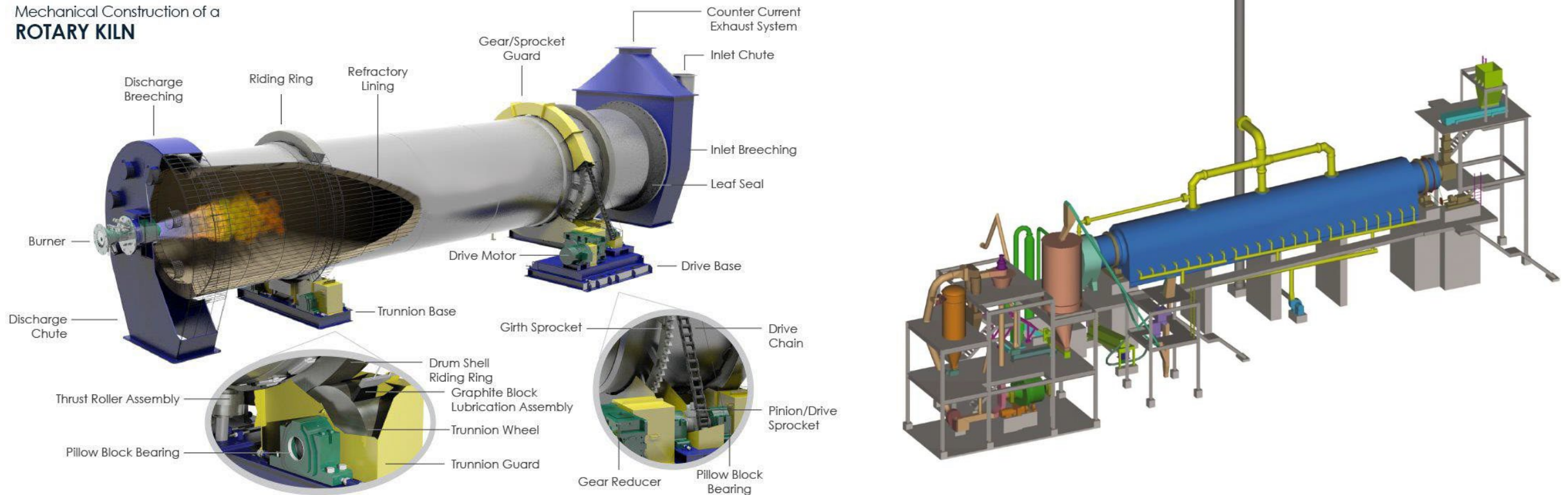
Food & Medical
Grade



Gypsum Wind
Blown Dunes

Gypsum Calcification Process

Mechanical Construction of a ROTARY KILN



Gypsum Calcification using existing heat source from onsite power station and assisted Gas Heating

Delivery



Our Product produced for Market, Tested and Certified Transported to our dedicated Trains Direct to Port short sailing schedules to the Customer in many ship configuration's for ease of unloading

Transport

Esperance Port Rail

We can load direct Mine to Truck, Train, Ship to any Customer Port



Storage



Undercover Storage up to 400,000 tonnes to keep products clean and free of contaminants for Delivery at 2,500 Tonnes Per Hour to Ship Loader

Loading & Unloading



We have capacity for various ships from 200,000 to 30,000 tonnes, Self Unloaders to Geared Ships

Esperance Port Hub

Norseman Hub to Esperance Port

1. Product delivered Norseman Hub by Customer solution (3 locations identified in pack)



USA Port

Shed storage at port required to reduce ship in port time. Direct unload train to ship when possible to reduce double handling cost



7. Bulk Ship loading Cape Class or Iron ore circuit

2. Product stockpiled adjacent to rail head



Length of siding will determine train length. Possibly split train if length restricted [= increased train dwell]

6. Unload Bulk wagons Via RCD based on Iron Ore 2mins per wagon 180 wagon train including partitioned unload = 6 hours

Limitation RCD to 11.5 mtpa. Min res utilising 6mtpa = 5.5 available



RCD Unloader

3. Load Wagons with FEL
Equip with load right systems (3 mins per wagon) additional FEL may be used to reduce cycle time



Tella Hub



4. Rail to Esperance Port

Consist length can be up to 1800m long = 160 WOE
63 blocks for port unload due to present RCD location
Consist = 63 or 106 or 160

Longer trains can be split into 63 portions in Esperance yard and consist portion ally unloaded

Esperance yard

4. Esperance yard
Split train & provision

Esperance Wharf



Esperance Port Hub



Scenario Overview Table

	Front end loaders	Rail Siding	Rail Extension	Load right system	Unloader access or additional RCD	Rail Multi user Site (permission Required)	Aurizon Esperance yard Access for train build and Provision
Norseman terminal	✓	✓	✓	✓			
Esperance Port					✓	✓	✓

Plans in place to develop infrastructure as to Rail and specific Ship Loading facilities to handle future demand

Gypsum Uses

Uses & Types Of End Uses

- ✓ Plaster Board / Drywall
- ✓ Cement Manufacturing
- ✓ Road Stabilization
- ✓ Agricultural
- ✓ Medical Grade
- ✓ Dentistry
- ✓ Food Additive
- ✓ Beer & Wine Additive
- ✓ Treating of Turbid Water
- ✓ Making of Medicines
- ✓ Toothpaste
- ✓ Cosmetics
- ✓ Bread Making
- ✓ Surgical & Orthopaedical Casts
- ✓ Filler & Fire Retardant in Plastic Products
- ✓ Source of Calcium & Sulphate Sulphur for Plant Growth
- ✓ Aid in Juice Extraction from some Fruits
- ✓ Colour Additive
- ✓ Plaster of Paris



Plaster Board



Cement
Manufacturer



Agriculture



Cosmetics



Medical



Dentistry
Moulds



Gypsum for Beer,
Bread, Tofu



Gypsum for water
Treatment

Cement Industry



Gyprock / Plasterboard





Industrial





Chemical



Agricultural

Soil Conditioner for Higher Crop Yields



Agricultural

Soil Conditioner for Higher Crop Yields

- ✓ Stops soil surface capping
- ✓ Improves water holding capacity
- ✓ Increases nutrient uptake
- ✓ Improves crop yields



Gypsum is commonly used as a soil amendment to improve structure and drainage of sodic soils.

When gypsum is added to the soil it has 2 effects:

1. a transient effect of dissolved gypsum in the soil solution which moves down through the soil profile with water over a few seasons
2. the other, more-lasting effect is replacing sodium adsorbed on clay surfaces with calcium. This lowers the ESP and raises the CA: Mg ratio at the same time. Sodium ions displaced by calcium can be leached deeper in the profile balanced by the sulphate ions from gypsum.



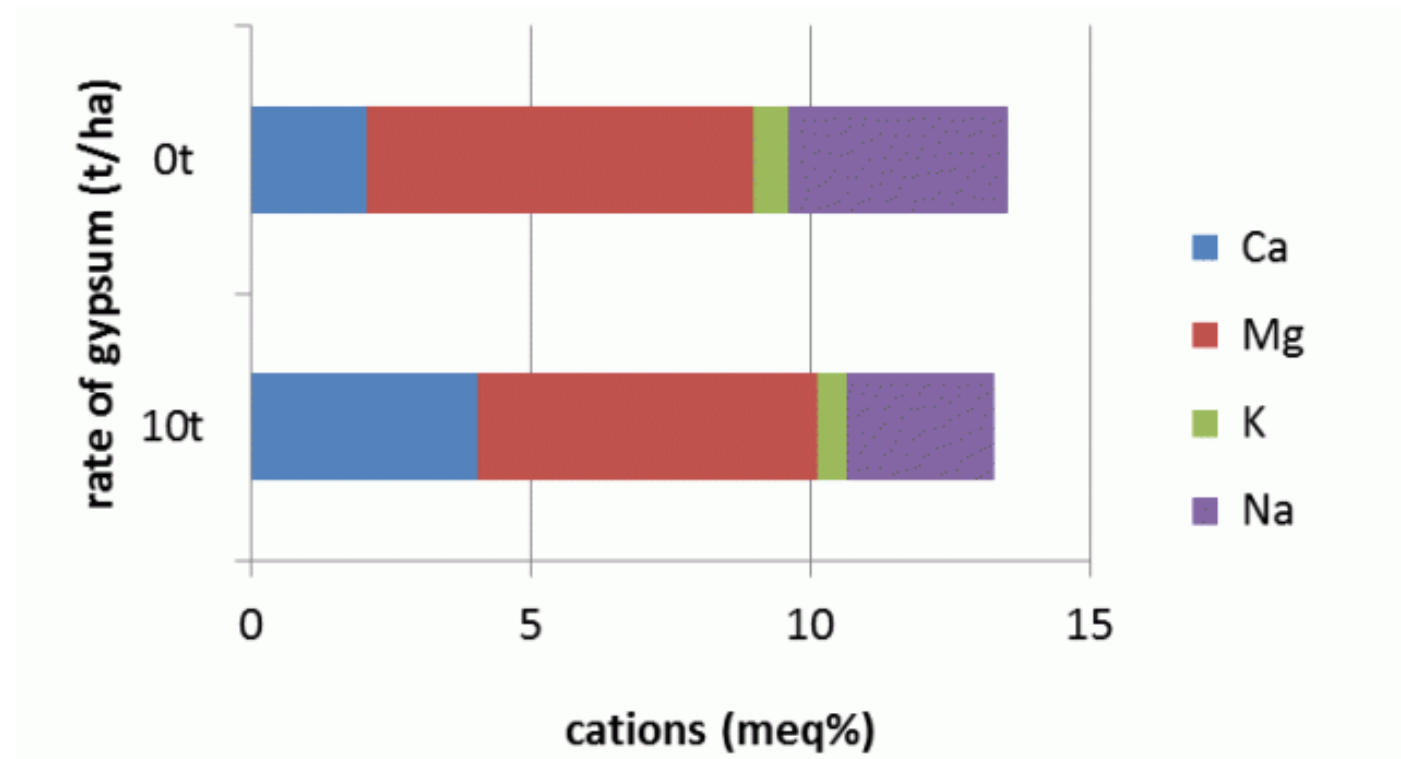
BEST FOR YOUR Growth , Yield and Water Conservation

How added gypsum affects ESP and the Ca: Mg ratio

Change in cation balance in the 10–20cm soil layer 20 years after gypsum application at Cascade, 100km north-west of Esperance. The Ca: Mg ratio changed from 0.30 to 0.67 and the ESP of 29 was reduced to 20

After 20 years, gypsum still replaces about one-third of the adsorbed sodium on the clay. This is measured as a reduction in the amount of sodium and an increase in the amount of calcium on the cation exchange sites and can be expressed as a reduction in the ESP and an increase of the Ca: Mg ratio. There have been small changes in the amounts of exchangeable magnesium and potassium in the upper layers.

The soil in all layers and gypsum rates at this site remains well below the 'ideal Ca: Mg ratio' of 7, yet crops grow successfully and profitably across this site. For the layer presented, the ESP is approaching the critical subsoil value of 16, the ESP of the surface layer at this site was reduced from 17 to 11 after 10t/ha of gypsum was applied, but remains above the suggested level of 6 for surface soil.



Agricultural

How added gypsum affects ESP and the Ca: Mg ratio

Rate of gypsum applied	Ca cmol _{c+} /kg*	Mg cmol _{c+} /kg	K cmol _{c+} /kg	Na cmol _{c+} /kg	Ca:Mg	ESP
Nil	2.08	6.92	0.63	3.92	0.30	29
10t/ha*	4.06	6.08	0.53	2.61	0.67	20

* cmol_{c+}/kg = centimoles of positive charge per kilogram of soil; t/ha = tonnes per hectare

Changes in cation balance in the 10–20cm soil layer 20 years after gypsum application at Cascade, 100km north-west of Esperance



Test Results

The sample(s) referred to in this report were analysed for the following determinant(s):

Analysis	Laboratory
Analysis of Gypsum	Agro Nutritional Laboratory

The following sample was analysed:

Sample ID		
B2019-06026	Your Reference	NB13537
	Sample Type	Gypsum
	Sample Desc.	Gypsum Daisy Powder 1m - 2m

Analysis Results

Determinant		Result Value
Analysis of Gypsum (FDA VGB-M701 2nd ed 2008)		
B2019-06026	Calcium	21.9 % WW (dry wt)
B2019-06026	Gypsum - CaSO ₄ x 2H ₂ O	94 % WW (dry wt)
B2019-06026	Sulphur	18.3 % WW (dry wt)

The sample(s) referred to in this report were analysed for the following determinant(s):

Analysis	Laboratory
Analysis of Gypsum	Agro Nutritional Laboratory

The following sample was analysed:

Sample ID		
B2019-06027	Your Reference	NB13538
	Sample Type	Gypsum
	Sample Desc.	Gypsum Daisy Powder 2m - 4m

Analysis Results

Determinant		Result Value
Analysis of Gypsum (FDA VGB-M701 2nd ed 2008)		
B2019-06027	Calcium	24.3 % WW (dry wt)
B2019-06027	Gypsum - CaSO ₄ x 2H ₂ O	95 % WW (dry wt)
B2019-06027	Sulphur	17.6 % WW (dry wt)



Agricultural



Business-to-Business Solutions for Success

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