



Mt Rawdon operation

A long history of reliable production

Location: 75km south west of Bundaberg, Queensland

Producing: Gold and silver

Management: Owner operator

Site management: Jamie Coad - General Manager

Mine Site contact number: +61 7 4156 2222

Evolution has owned and operated Mt Rawdon since November 2011 and has a long history of reliable production with over 1.8 million ounces of gold produced to date.

Our team at Mt Rawdon exemplifies thinking differently especially when driving improvements from a safety and production perspective. Investigations are currently underway on a sustainability project utilising the post-mining open pit for a pumped hydro installation. About 85% of our Mt Rawdon workforce reside in the Wide Bay region with 50% from the local Mt Perry district.

- Strong safety and risk management culture
- Record FY20 net mine cash flow of A\$59M
- Current life of mine:
 - Stage 4 open pit ore mined through to FY23
 - Stockpile processed until FY28
- Optionality from Stage 5 has the potential to add ~4 years to mine life and 7 year production
- A positive legacy - progressing studies to convert the open pit into a pumped hydro water reservoir post completion of mining
 - Water pumped to higher elevation during periods of low energy demand
 - Water flows back into lower reservoir generating electricity

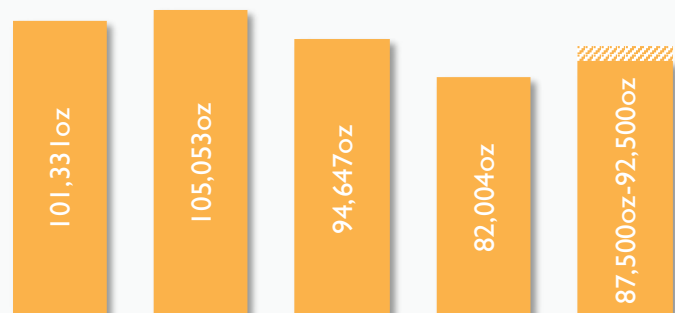
1. TRIF: Total recordable injury frequency. The frequency of total recordable injuries per million hours worked. Results above are based on a 12 month moving average as at November 2020

➔ Key Facts

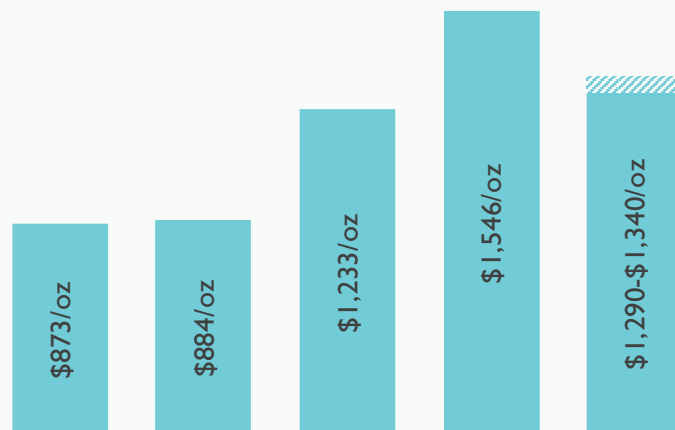
- **FY20 gold production:** 82,004oz
- **FY21:** 87,500 – 92,500oz
- **FY20 AISC:** A\$1,546/oz
- **FY21 AISC:** A\$1,290 – A\$1,340/oz
- **Net mine cash flow:** A\$59M
- **TRIF¹:** 1.9 (12mma)
- **Mineral Resources:** 50.66Mt at 0.54g/t Au for 885koz
- **Ore Reserves:** 20.08Mt at 0.62g/t Au for 398koz
- **Mine life:** to FY27
- **Mining method:** conventional open pit
- **Plant capacity:** 3.5Mtpa
- **Process method:** conventional crush-grind-CIL to produce dore
- **Recovery:** 88.5%
- **Residential:** ~240 workforce
- **Power:** Ergon transmission, AGL Energy supply 25 kwhr/t

Snapshot

Gold production (oz)



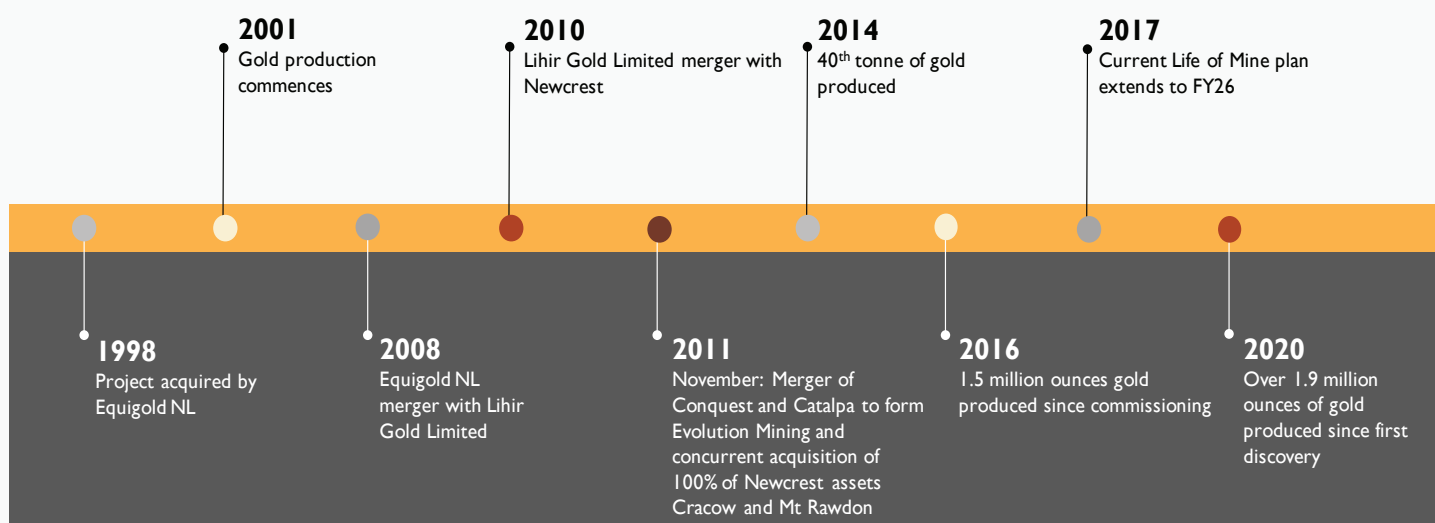
AISC (A\$/oz)



* denotes guidance for FY21

Historic performance data can be accessed at our [Interactive Analyst Centre™](#)

History - Mt Rawdon Evolution



Mineral Resources (Dec 20)



Ore Reserves (Dec 20)



1. See ASX release entitled "[Mineral Resources and Ore Reserves Statement](#)" released to ASX on 17 February 2021 and available to view at www.evolutionmining.com.au

Sustainability

The work we do on sustainability reflects our values driven approach to creating measurable value for our stakeholders through safe, reliable, low-cost gold production in an environmentally and socially responsible way. See our [2020 Sustainability Report](#) provided on our website which describes our approach and performance in the areas of health and safety, environmental stewardship, helping our communities thrive, cultural heritage, innovation and the development of our people.

Geology

The Mt Rawdon gold deposit is a massive intrusive-related low grade gold deposit that exhibits excellent characteristics conducive to low cost mining and treatment. Alluvial gold was first discovered on the hill flanks in 1946 leading to early mining endeavours however the gold grade was too low to be profitable in those times. The gold mineralisation is closely associated with fine disseminated pyrite and base metal sulphides as well as in irregular discrete veinlets within the igneous host rocks. The gold grade is statistically independent of the sulphide percentage of the host however. The host rocks are predominantly rhyodacitic intrusives, breccias and a related volcanoclastic pile, with the orebody dipping moderately to the south west.

Mining

Mining production is derived from a single open pit, utilising conventional drill and blast, load and haul methodologies, mining 10-15m benches. The operation is scheduled to continue until FY25 at current estimates with a remaining life of mine strip ratio of 2:1.

Mining method/s:	Drill, blast, load and haul
Ore mined:	4.43Mt per annum (FY18)
Waste mined:	7.26Mt per annum (FY18, includes 2.6Mt capital waste)
Mining contractor:	Owner operator since July 2014
Mine work roster:	7/7 (operators and maintenance, 8/6 blast crews, 5/2-4/3 technical staff
Haulage / mine trucks:	10 x MT3300 Terex, 2 x Komatsu 785-7
Shovels / excavators / loaders:	3 x Komatsu PC3000, 1 x Komatsu PC1250
Dozers:	3 x Komatsu 375-5 , 1 x Cat 854G wheel dozer
Haul road maintenance regime / equipment:	2 x CAT16M graders, 1 x Komatsu 465-7 water truck, 1 x CAT777D water truck, 1 x CAT988F loader
Drilling equipment:	1 x DPI1500, 3 x Atlas D65
Explosives:	Maxam watergel emulsion / Unitronic detonation
Mine survey equipment / products:	Surpac / Trimble and Topcon survey equipment
Geotechnical equipment/products:	InSAR, Sirovision, Geomos, Radar, Piezometer
Mine planning software:	Deswik and MineSched



Processing

The Mt Rawdon processing plant consists of primary and secondary crushing, SAG and ball milling, followed by conventional cyanidation leaching. Gold feed is recovered through a gravity circuit prior to the flotation circuit to produce doré gold bars which are sold to the ABC Refinery in Sydney.

- Ore treatment/processing method/s:**
 Conventional crush-grind-CIL to produce gold doré
- Annual average throughput rate:**
 3.24Mtpa (FY19)
- Nameplate capacity of plant:**
 3.5Mtpa
- Crushing plant total capacity**
 720tph (two stage crushing)
- Power**
 Ergon transmission, AGL Energy supply 25 kw/hr/t
- Primary crushing/grinding plant/machinery**
 Allis Chalmers 42/65 superior gyratory
- Secondary crushing/grinding plant/machinery:**
 Jaques J65. Pre screen with double deck Joest vibrating screen. Synton feeder to screen and bypass using an overflow bin for lump. Nominal reduction ratio of 5-1 (125mm primary crush to 25mm secondary crush)
- Grinding plant equipment:**
 Dominion 28' SAG, Nordberg 42/70HG ball mill
- Grinding media:**
 High manganese steel, 125mm ball (steel lined SAG mill) 64mm balls (rubber lined ball mill). Grind size 60% -106µm
- Screening plant/equipment:**
 Wet screen
- Recycle crusher:**
 Autofine 736 Cone Crusher (Allis Chalmers)
- Mineral liberation/recovery method:**
 CIL
- Mineral liberation plant/equipment:**
 1 x 1,500m³ leaching tank, 5 x 1,500m³ adsorption tanks
- Mineral recovery plant/equipment:**
 Tanks
- Gravity circuit:**
 Knelson Concentrator 13% of gold recovered by gravity
- Process pumps:**
 Warman 10/12 split casing
- Chemical/reagents used:**
 Air Liquide (oxygen), Unmin (lime), Elgas (LPG), IXIM (HCl, caustic), Orica (cyanide), Jacobi (carbon)
- Refining plant/equipment:**
 8t AARL elution column
- Process control system:**
 Wonderware
- Maintenance system:**
 Pronto
- Work roster:**
 7/7 - operations, 8/6, 5/2 4/3 - maintenance, 5/2 4/3 - technical

Process flowsheet

