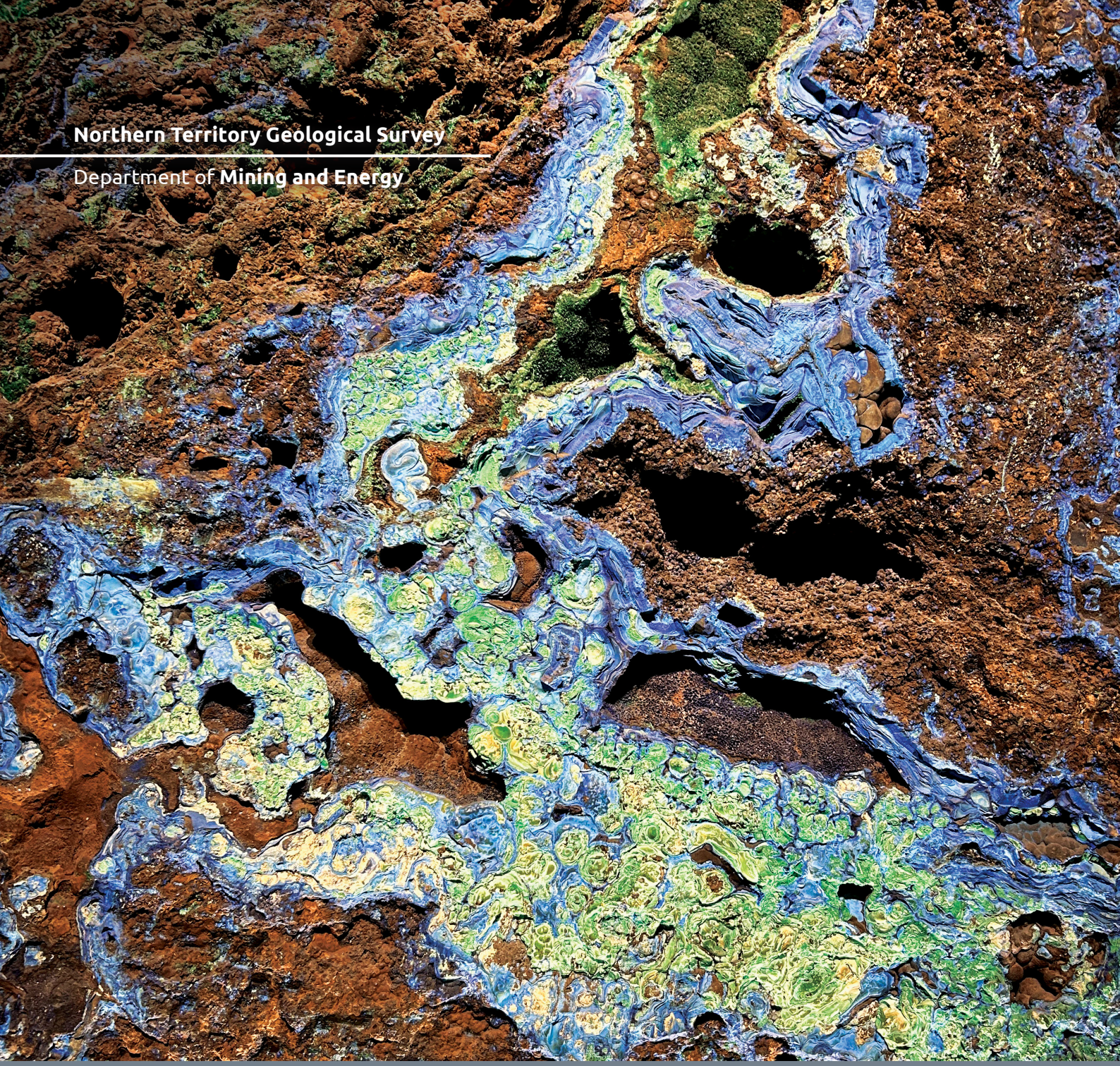


Critical Minerals and Gold in the Northern Territory 2026

resourcingtheterritory.nt.gov.au

NORTHERN TERRITORY GOVERNMENT

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Acknowledgement

The Northern Territory Government respectfully acknowledges Aboriginal and Torres Strait Islander peoples as the First Nations people of this country. We acknowledge the continuing connection to lands, waters and communities, and the evolving cultures of all our First Nations peoples. We pay our respects to all Aboriginal and Torres Strait Islander cultures, and to their leaders - past, present and emerging.

Cover image: Oxidised copper mineralisation

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Foreword

The Northern Territory is rich in critical minerals, strategic materials and precious metals that are essential to economic resilience, emerging technologies, defence capability and the energy transition.

Critical Minerals and Gold in the Northern Territory 2026 is the NT Government's annual overview of the Territory's exceptional mineral resources across 21 globally recognised critical minerals. This includes five new additions to the Territory's critical minerals list - bismuth, iron ore, lead, silver and uranium.

For the first time, the guide also includes a comprehensive inventory of the Territory's gold resources, making this document the first complete inventory of the Territory's mineral resource base.

Together with case studies on key projects, these insights provide an accurate snapshot of the scale, diversity and strategic importance of the Territory's mineral potential.

The Northern Territory Government is focussed on rebuilding the economy and our minerals and resources sector plays a critical role in this mission.

The Territory's gold sector is going from strength to strength, with Newmont's Tanami operations near the final stages of a major expansion, and with large-scale gold mining recommencing in Tennant Creek in 2025 after more than two decades. Gold has underpinned the Territory's mining sector for nearly 150 years, and with a strong pipeline of developing projects that is set to continue. The Territory also has world-class operating mines for manganese and zinc-lead, and a long history of uranium mining.

Our critical minerals sector is set for a major expansion, with Australia's first integrated mine-to-rare-earth-oxide project at Nolans, just north of Alice Springs, advancing towards a Final Investment Decision. The Jervois copper project is also approaching FID, while Finniss lithium mine is also preparing to restart operations, and the Leliyn graphite project continues to emerge as a project of potentially global significance.

Exploration remains fundamental to sustaining a strong pipeline of future mining projects, and this is why the NT Government is committed to supporting exploration through targeted investment, providing $9.5 million annually to a range of geoscience and grants programs to stimulate the sector through the *Resourcing the Territory* program. This includes an innovative $4 million per annum industry grants program that is designed to support projects throughout the exploration lifecycle, from early-stage targeting through to resource appraisal.

The mineral endowment and projects in this guide highlight the Territory's increasing importance as a reliable and long-term supplier of in-demand minerals to our international partners.

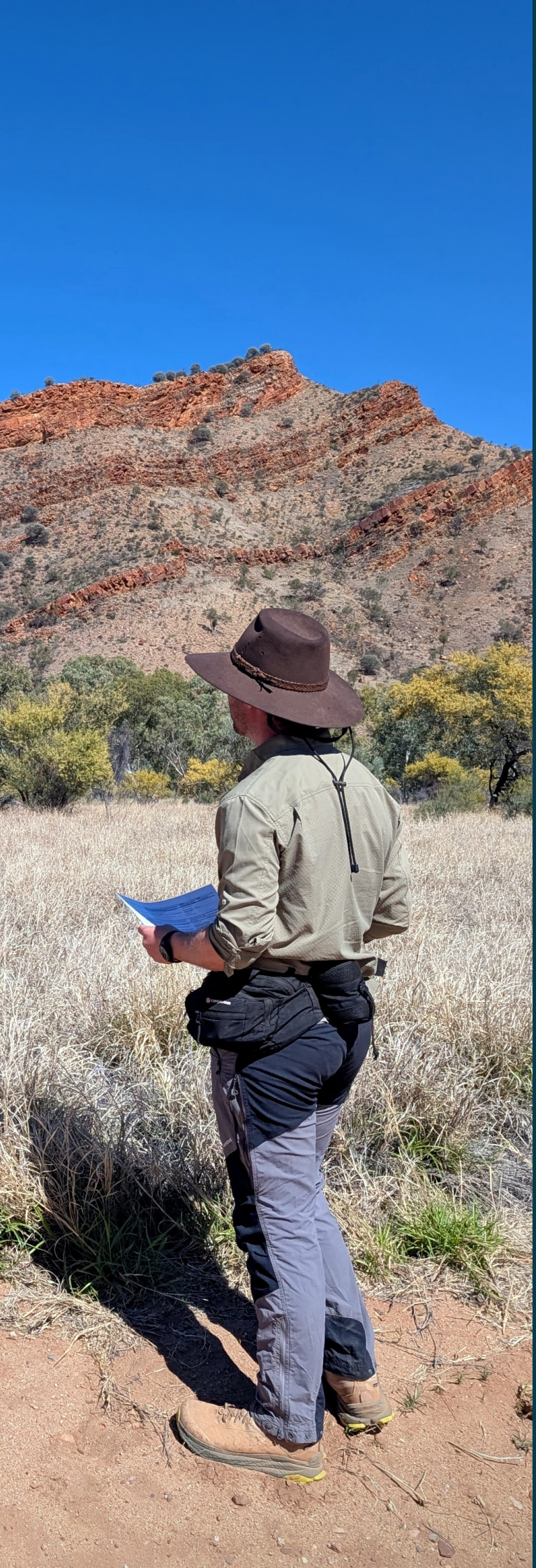
I commend this guide to industry, investors and stakeholders as a valuable resource for understanding the Northern Territory's critical minerals and gold sector and the opportunities it presents.



Hon Gerard Maley
Minister for Mining and Energy



NTGS geologist, Amadeus Basin



Introduction

The Northern Territory has an increasing role in global supply chains for critical minerals, strategic materials and precious metals that are essential for economic resilience, new technologies, defence industries, and the clean-energy transition. Alongside established commodities such as gold, bauxite, manganese, zinc, uranium and iron ore, the Territory is building a broad and diverse minerals sector to underpin long-term economic growth.

This guide provides an annual overview of the Territory's resource endowment across 21 globally recognised critical minerals: bauxite (aluminium), bismuth, cobalt, copper, graphite, iron ore, lead, lithium, magnesium, manganese, molybdenum, nickel, phosphate, silver, rare earth elements, titanium (ilmenite), tungsten, uranium, vanadium, zinc and zircon (zirconium). Five of these commodities - bismuth, iron ore, lead, silver and uranium - are new additions to the Northern Territory's list of critical minerals. The guide also highlights the geological potential of 14 emerging critical minerals and, for the first time, includes the current gold resource inventory, offering a comprehensive snapshot of the Northern Territory's mineral endowment.

With increasing global demand for critical minerals, strategic materials and precious metals, the Northern Territory is well placed to advance development of its mineral endowment and enable mid- to downstream processing industries at the Middle Arm Precinct located on Darwin Harbour. Strategic investment in regional infrastructure, supported by onshore gas development and a growing renewables sector, is strengthening its position as a future resources and industry development hub.

Over the past year, the Northern Territory has continued to progress development of its minerals sector. Australia's first integrated mine to rare earth oxide plant at Nolans has made substantial progress towards a Final Investment Decision (FID), the Finniss lithium mine is preparing for a restart, and one of Australia's largest graphite projects at Leliyn is making strong progress. At Tennant Creek, the restart of large-scale gold mining in 2025 marks the first stage of mining resurgence in the province with potential for near-term copper, bismuth and cobalt production. These developments highlight the Territory's diverse minerals sector and its potential as a supplier of in-demand minerals to our international partners.

Ongoing exploration is essential to sustaining a pipeline of mining projects that attract investment and deliver economic and strategic benefits to the Northern Territory. With its prospective and largely underexplored geology, the Territory has substantial resource potential.

To drive exploration, the Northern Territory government provides $9.5 million each year towards the *Resourcing the Territory* program through exploration grants and innovative geoscience programs to de-risk and accelerate exploration to unlock the mineral potential of the Northern Territory.

Resourcing the Territory

$9.5 million per year to support exploration

The Northern Territory government is committed to attracting and supporting increased mineral exploration through the $9.5 million per annum *Resourcing the Territory* program, which is funded on an ongoing basis. Through the program the Territory government provides high-quality geoscience data free-of-charge to explorers, and provides grant funding to support eligible industry exploration programs.

Geophysics and Drilling Collaborations grants

A flagship component of *Resourcing the Territory* is a $4 million per annum competitive exploration grants program. The program awards co-funding of up to 50% of the cost of the following: drilling (both greenfields and brownfields); regional-scale geophysical surveys; innovative exploration targeting; and mineral characterisation and testwork projects assessing mineral endowment or recoverability using new or existing sample sets, particularly for critical minerals.

Co-funding amounts are capped between $50 000 and $200 000 per project dependent on the project category, with a minimum of $2 million funding per year directed into projects targeting critical minerals and strategic materials.

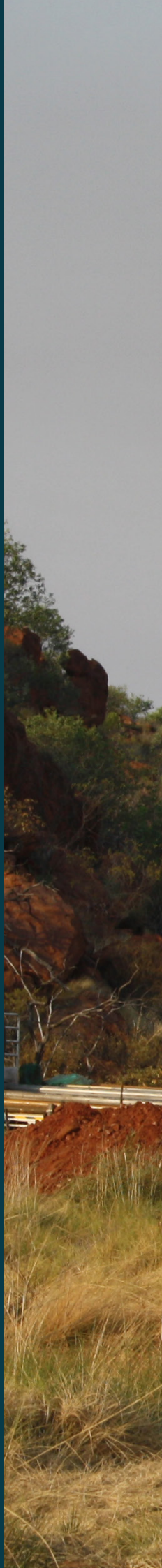
Recent co-funded drilling projects have contributed to the discovery of new critical minerals resources at Barkly (rare earths, vanadium, gallium) and Leliyn (graphite), as well as supporting early stage critical minerals drilling projects demonstrating the potential for emerging critical minerals such as fluorite, beryllium, tin and heavy rare earths in the underexplored Aileron Province. For further information, visit resourcingtheterritory.nt.gov.au/gdc

Pre-competitive geoscience programs

In addition to the grants program, the NT Geological Survey (NTGS) applies precompetitive geoscience, and partners with the research sector and industry, to explore opportunities to identify new sources of critical and precious minerals and help de-risk investment in the sector. This includes:

- Upgrading regional geophysical datasets to assist exploration targeting, with a current focus on upgrading ground gravity and airborne magnetic and radiometric geophysical coverage of the Pine Creek Orogen
- Undertaking geoscience and mineral system studies in prospective regions such as the Pine Creek region and Aileron Province that will provide a robust geological framework to underpin exploration and aid assessment of potential for gold, copper and critical minerals.
- Developing research collaborations to support critical minerals exploration such as improving targeting for lithium bearing pegmatites, and investigating rare earths deposit styles across the Territory.
- Ongoing geoscience studies and collaborations on the Territory's vast Proterozoic basins that have high potential for sediment-hosted copper-cobalt, zinc and manganese.
- Increasing the accessibility and usability of geoscience and exploration data, with ongoing capture of legacy drilling and geochemical data from historic exploration.

For further information, visit resourcingtheterritory.nt.gov.au





Drill rig at Bigrlyi deposit, Ngalia Basin

What are critical minerals?

Geoscience Australia defines a critical mineral as a metallic or non-metallic element that is essential for modern technologies, economies or national security, and has a supply chain at risk of disruption. Critical minerals are vital to the manufacture of wind turbines, electric vehicles, solar panels, rechargeable batteries, mobile phones and computers, flat screen monitors, fibre-optic cables, semi-conductors, defence industry technology and products, as well as aerospace, medical and high-tech applications.

The Australian government's critical minerals list contains 31 minerals: high purity alumina, antimony, arsenic, beryllium, bismuth, chromium, cobalt, fluorine, gallium, germanium, graphite, hafnium, indium, lithium, magnesium, manganese, molybdenum, nickel, niobium, platinum group elements, rare earth elements, rhenium, scandium, selenium, silicon, tantalum, tellurium, titanium, tungsten, vanadium, zirconium. Additionally, Australia's strategic materials list includes aluminium, copper, phosphorus, tin and zinc.

Criticality is a subjective concept and individual countries develop their own lists of critical minerals based on the relative importance of particular minerals to their industrial and strategic requirements. Assessments of criticality are essentially snapshots at a particular time and subject to change. A summary and comparison of the minerals currently defined as critical by some of Australia's important trading partners is shown in the compilation of recent global critical minerals lists on the back page of this publication.

Significant changes to recent global critical minerals lists include the inclusion of copper, lead, silver, phosphate and uranium in the United States in November 2025, iron and phosphate in the United Kingdom in November 2024, and uranium in Japan in January 2024.

The Northern Territory's critical minerals

The Territory's list of critical minerals are those minerals considered critical or strategic by Australia and/or key trading partners for which the Territory has defined Mineral Resources. The Territory's defined Mineral Resources include Measured, Indicated and Inferred Mineral Resources as reported under the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

The table below lists the Northern Territory's 21 globally recognised critical minerals. Of these, 14 are on the Australia's critical minerals list, four are on Australia's strategic materials list, and the remaining four appear on critical minerals lists of key international trading partners. All 21 minerals are considered to be critical by at least one of our key partners, such as Japan, South Korea, United States, United Kingdom, European Union, Canada, Indonesia and India.

The Territory's critical minerals	
Aluminium (as Bauxite)[1]	Nickel
Bismuth[2]	Phosphate[1]
Cobalt	Rare earth elements
Copper[1]	Silver[3]
Graphite	Titanium (as Ilmenite)
Iron ore[3]	Tungsten
Lead[3]	Uranium[3]
Lithium	Vanadium
Magnesium	Zinc[1]
Manganese	Zirconium (as Zircon)
Molybdenum	

Emerging critical minerals in the Territory	
Antimony	Platinum-group elements
Beryllium[2]	Scandium
Fluorine	Selenium[2]
Gallium	Silicon
Germanium	Tantalum
High purity alumina	Tellurium
Niobium	Tin[2]

Of these 21 critical minerals, the Territory currently produces manganese, aluminium (as bauxite), iron ore, zinc, lead, silver (as a by-product in concentrate) and titanium (as ilmenite). There are also opportunities for significant near-term production of additional critical minerals including lithium, rare earth elements, phosphate, copper, bismuth, cobalt, magnesium, graphite, molybdenum and tungsten from advanced projects in the Territory.

Fourteen critical minerals with known occurrences and exploration potential in the Territory are also listed above and are considered to be the Territory's emerging critical minerals. These emerging critical minerals are all on Australia's critical minerals or strategic materials lists.

Table of global partners critical minerals list on page 42-43
[1]Australian strategic material
[2]Australian critical mineral added to NT list in 2026
[3]Critical mineral for at least one of our key trading partners; added to NT list in 2026

Potential applications of the Territory's minerals

Renewable energy

30 Zn Zinc
13 Al Aluminium
25 Mn Manganese
26 Fe Iron
47 Ag Silver
Rare Earth Elements
27 Co Cobalt
28 Ni Nickel
29 Cu Copper
14 Si Silicon
32 Ge Germanium

Electric vehicles

25 Mn Manganese
26 Fe Iron
13 Al Aluminium
79 Au Gold
3 Li Lithium
27 Co Cobalt
Rare Earth Elements
28 Ni Nickel
29 Cu Copper
6 C Carbon (graphite)

Energy storage

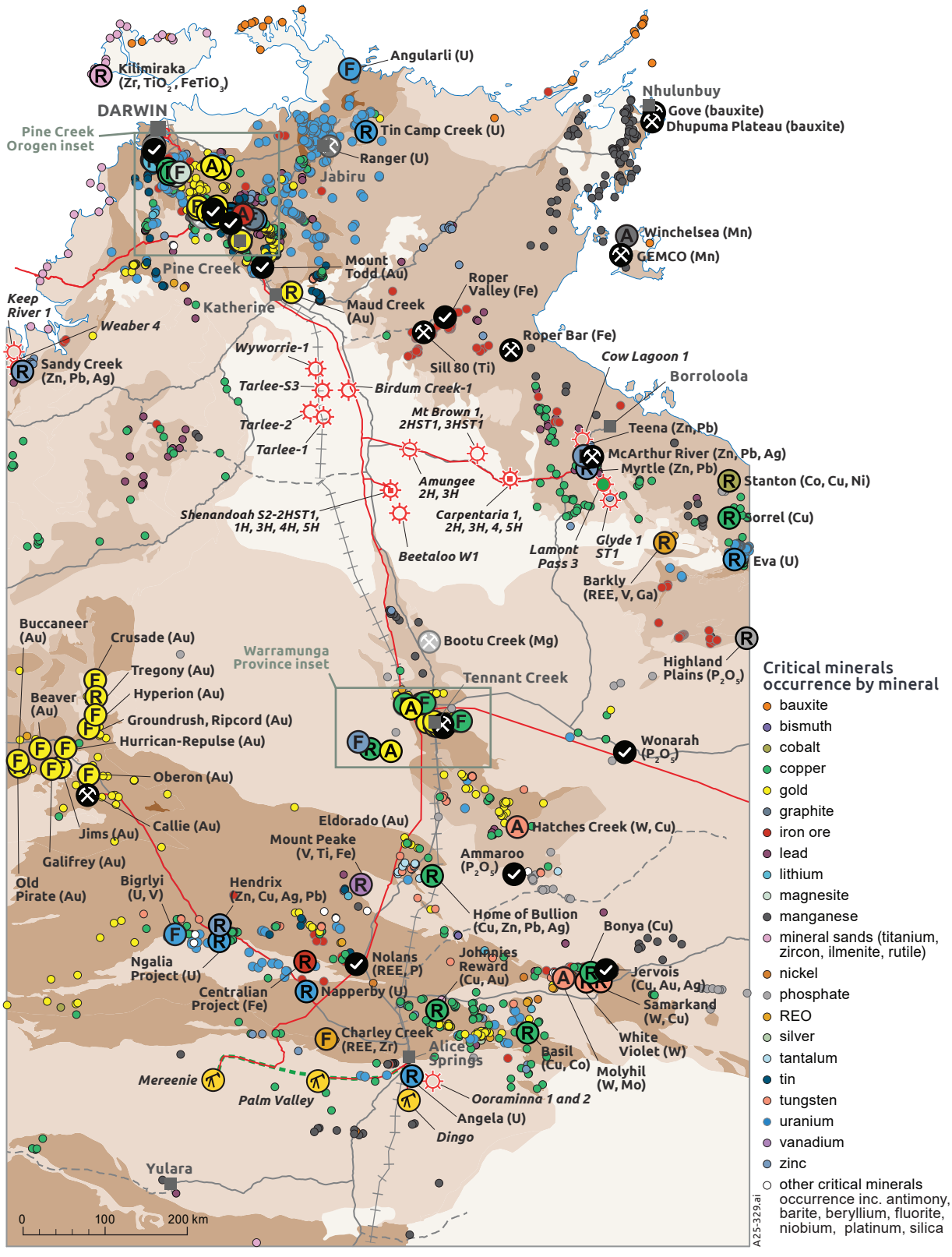
25 Mn Manganese
30 Zn Zinc
13 Al Aluminium
82 Pb Lead
26 Fe Iron
3 Li Lithium
28 Ni Nickel
15 P Phosphate
23 V Vanadium
27 Co Cobalt
6 C Carbon (graphite)
9 F Fluorine

High tech industries and electronics

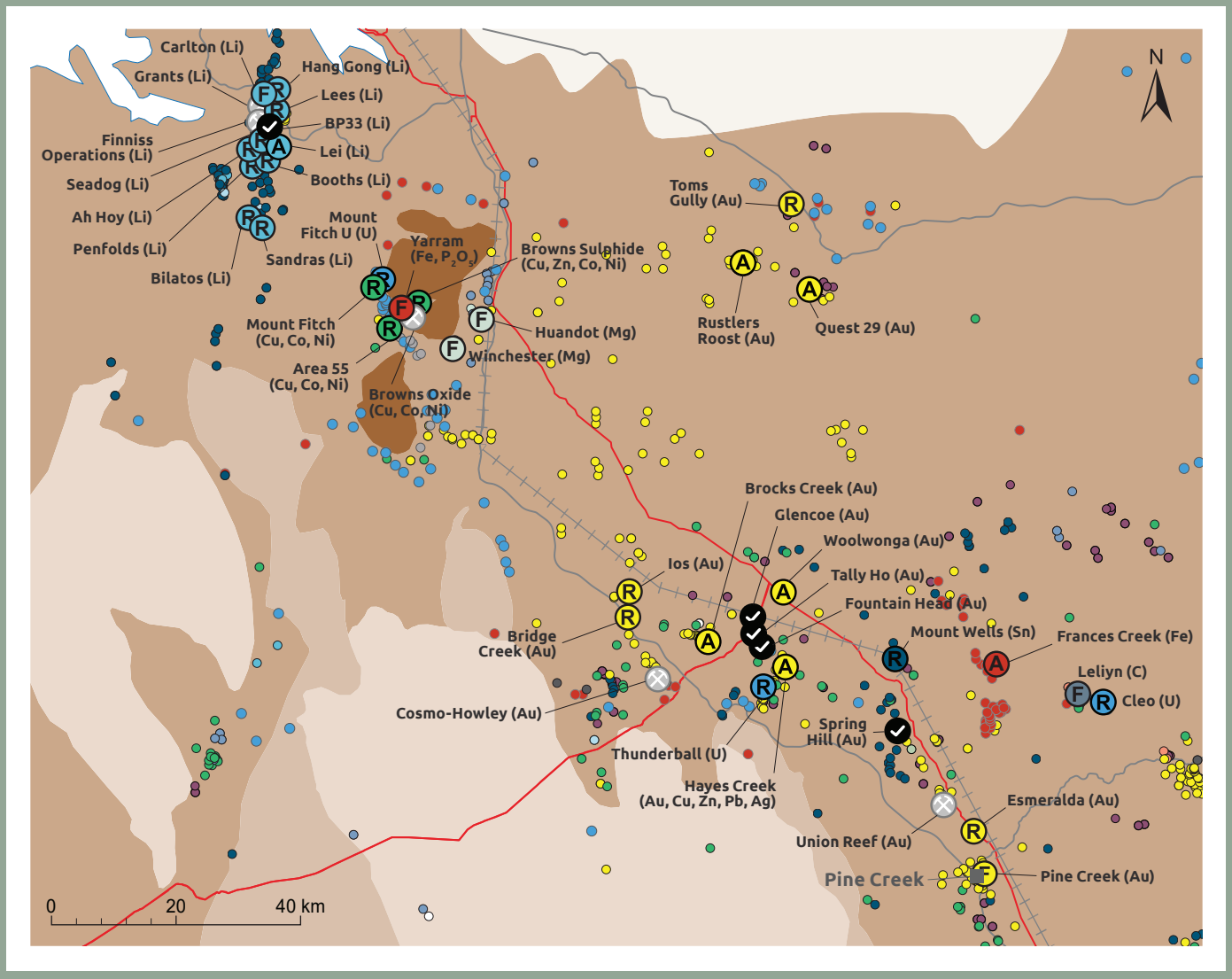
13 Al Aluminium
22 Ti Titanium
26 Fe Iron
79 Au Gold
47 Ag Silver
3 Li Lithium
Rare Earth Elements
74 W Tungsten
27 Co Cobalt
29 Cu Copper
12 Mg Magnesium
6 C Carbon (graphite)
83 Bi Bismuth
42 Mo Molybdenum
31 Ga Gallium
51 Sb Antimony
32 Ge Germanium
41 Nb Niobium
21 Sc Scandium
73 Ta Tantalum
Platinum Group Elements
14 Si Silicon
9 F Fluorine
4 Be Beryllium

Producing in the NT
Mineral Resources in the NT
Emerging potential in the NT

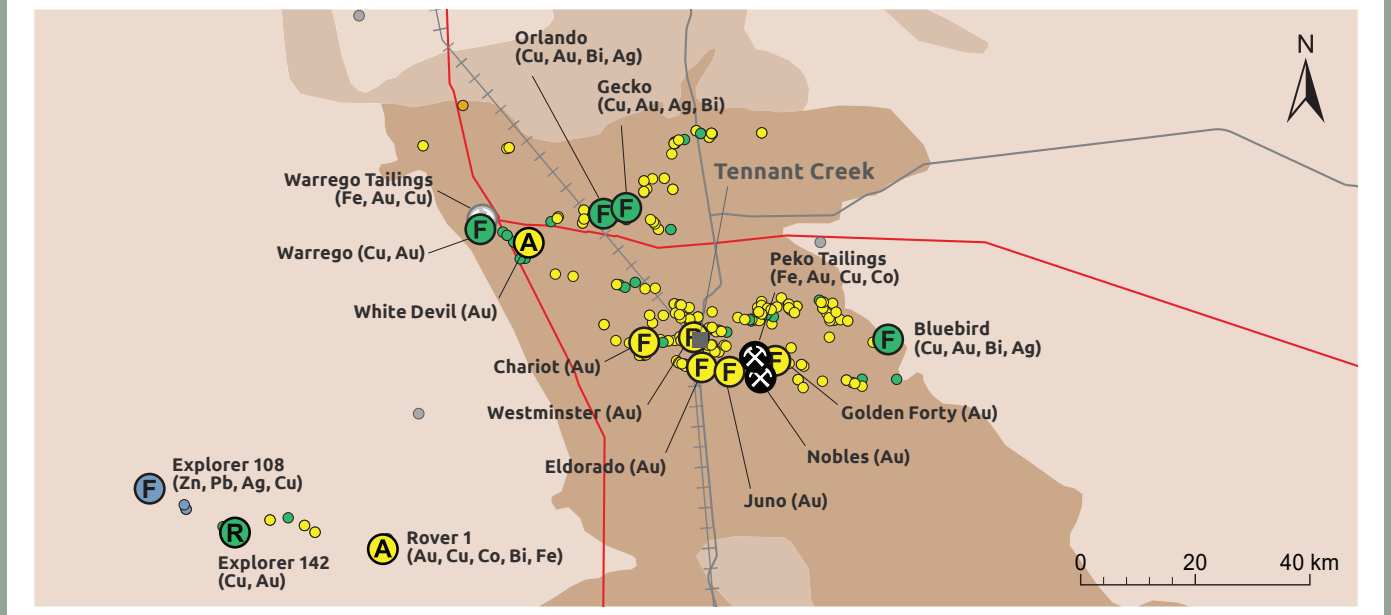
Northern Territory's minerals endowment



Pine Creek Orogen inset



Warramunga Province inset

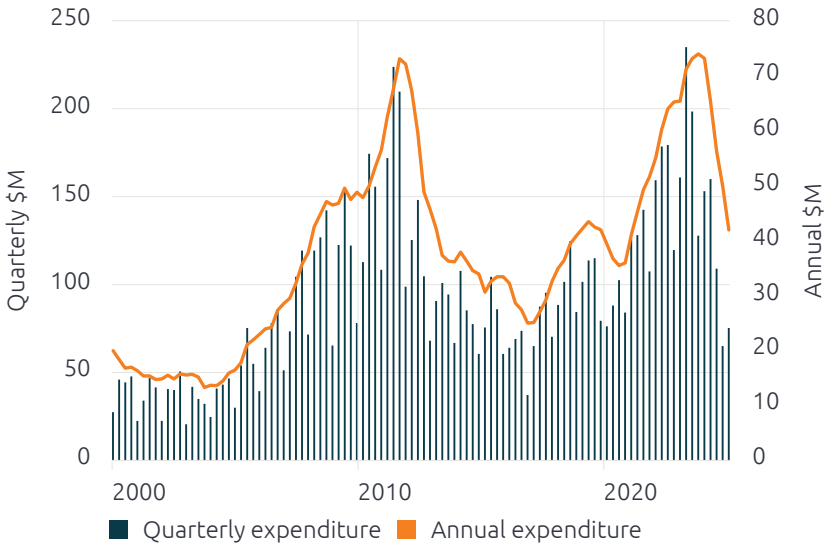


Northern Territory's minerals resource inventory

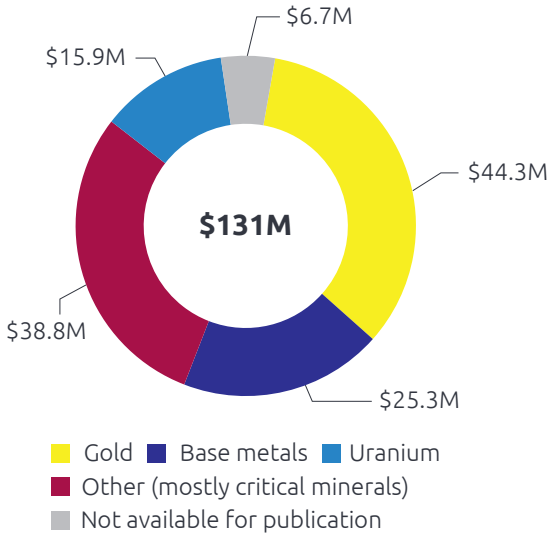
Critical mineral	On trading partners' lists[1]	Unit	NT total resources (2024-25)[2]	NTEDR[4] (2024-25)[23]	Territory annual production (2024-25)[3]	NT total past production[4]	AEDR[5] (2023)[5]	Global economic resources (2023)[5]	Australian production (2023)[6]	Global production (2023)[7]
Bauxite (Al)	US, EU, UK, Japan, Korea, Indonesia, Canada	Mt bauxite	>58[8]	>58	12.9	347	3714	30 000	103.8	400
Bismuth (Bi)	US, EU, Japan, India, Korea, Indonesia, Canada	kt Bi	28.4	10.4	0	21.65[9]	no data	no data	no data	no data
Cobalt (Co)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	kt Co	88.9	53.8	0	0	1690	11 000	5.3	230
Copper (Cu)	US, EU, India, Korea, Indonesia, Canada	Mt Cu	1.96	0.9	0	1.98[10]	104.74	1000	0.78	21.5
Gold (Au)	Not included in trading partners critical minerals	t Au	1102	768	12.1	>672[12]	12 653	59 000	296	3000
Graphite (C)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	Mt	14	1.0	0	0	10.8[13]	292	0	1.6
Iron ore (Fe)	UK, Indonesia	Mt iron ore	no data	no data	no data	no data	58 622	190 000	953	2500
		Mt Hematite ore	802.8	69.4	1.1	20.7[14]	34 601	no data	no data	no data
		Mt Magnetite ore	>45.5	>36.6	0.0	>0.1	24 948	no data	no data	no data
Lead (Pb)	US, Korea, Indonesia	Mt	8.90	6.6	0.05	1.3[15]	34	93	0.47	4.5
Lithium (Li)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	kt Li	309	174	0	227	8440	30 000	95	190
Magnesium (Mg)	US, EU, UK, Japan, Korea, Indonesia, Canada	Mt magnesite	32.3	18.5	0	0	284	7700	0.4	22
Manganese (Mn)	US, EU, UK, Japan, Korea, Indonesia, Canada	Mt manganese ore	161	140.4	1.84	162.9	576	1700[16]	4.1	18.5
Molybdenum (Mo)	Japan, India, Korea, Indonesia, Canada	kt Mo	4.4	2.9	0	no data	759	15 000	1.22	260
Nickel (Ni)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	Mt Ni	0.069	0.048	0	0	24.6	>130	0.15	3.6
Phosphate (P_2O_5)	US, EU, UK, India, Indonesia	Mt phosphate rock	2062	105.8	0	0	803	74 000	0.7	220
		Mt P_2O_5	321.5	no data	0	0	131	no data	no data	no data
Rare earth elements (REE)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	kt oxide	1781	1087	*5*[6]	0	6260	116 000	29	360
Silver (Ag)	US	kt Ag	7.7	6.6	>0.05[17]	>1.1	91	608	1.03	25.6
Tin (Sn)	US, UK, India, Korea, Indonesia, Canada	kt Sn	3	0	0	0.49[18]	566	4300	9.9	290
Titanium (Ti)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	Mt ilmenite	7.6	no data	0.04	0.3	291	1164	0.63	14.3
		Mt rutile	0.057	no data	0	no data	37.2	62	0.2	0.6
		Mt TiO_2	8.5	7.6	0	0	no data	no data	no data	no data
Tungsten (W)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	kt W	34.5	8.5	0	6	568	4400	0.52	78
Uranium (U)	US, Canada, Japan	kt U	>61.4[19]	9.8	0	146.6[20]	1257	3869[21]	4.7	49.5
Vanadium (V)	US, EU, UK, Japan, India, Korea, Indonesia, Canada	kt V	699	411	0	0	10 022	20 000	0	100
Zinc (Zn)	US, UK, Korea, Indonesia, Canada	Mt Zn	21.9	12.7	0.27[22]	5.2	63.7	224	1.1	12
Zirconium (Zr)	US, Japan, India, Korea, Indonesia	Mt zircon	0.507	0.195	0	No data	84	113	410	2200

Table modified from Australian and global commodity data from Geoscience Australia's Table 3: Australia's Identified Mineral Resources as at December 2023.
Northern Territory (NT) total Mineral Resources include all publicly announced total JORC Mineral Resources (Measured, Indicated and Inferred).
Link to all footnotes and Mineral Resource references on page 42-43
[4]NT economic demonstrated resources
[5]Australian accessible economic demonstrated resources
[6]Proposed future annual production

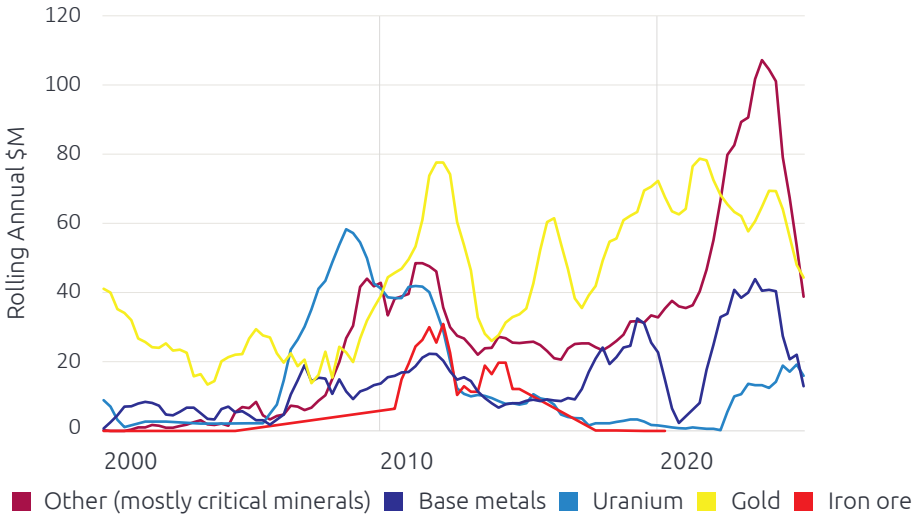
NT mineral exploration expenditure



Exploration expenditure 2024-25

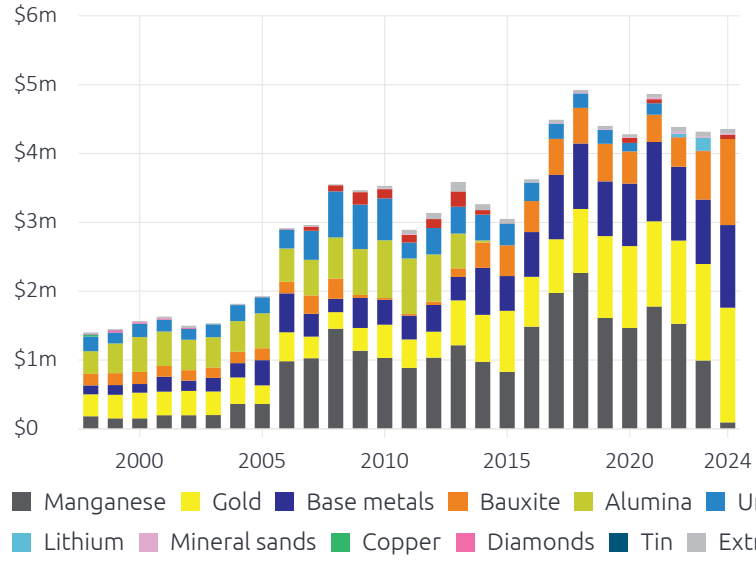


NT mineral exploration expenditure by commodity

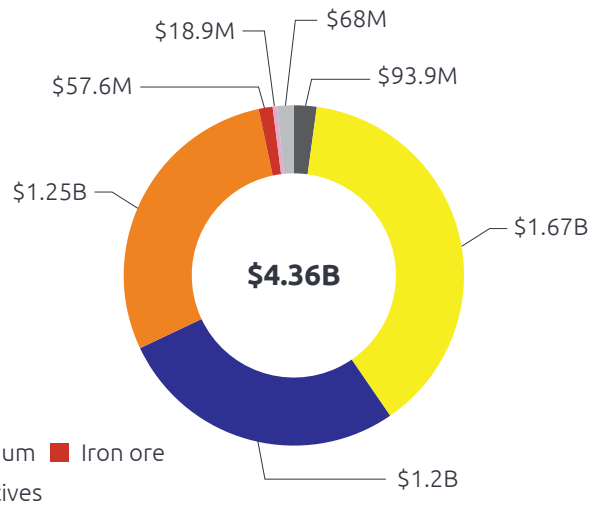


Data sourced from quarterly mineral exploration expenditure Australia Bureau of Statistics, Australian Bureau of Statistics

NT mineral production value



Mineral production value 2024-25



Data sourced from Northern Territory annual mineral production value statistics, Mineral production data | Department of Mining and Energy

Mines, projects and resources

At the beginning of 2026, the Northern Territory had nine operating mines, 21 minerals projects at various stages of regulatory approvals or project financing, and a pipeline of earlier stage projects with defined Mineral Resources.

There are opportunities to become involved in the Territory's critical minerals and gold industry including early-stage exploration opportunities through to project financing, equity or offtake.

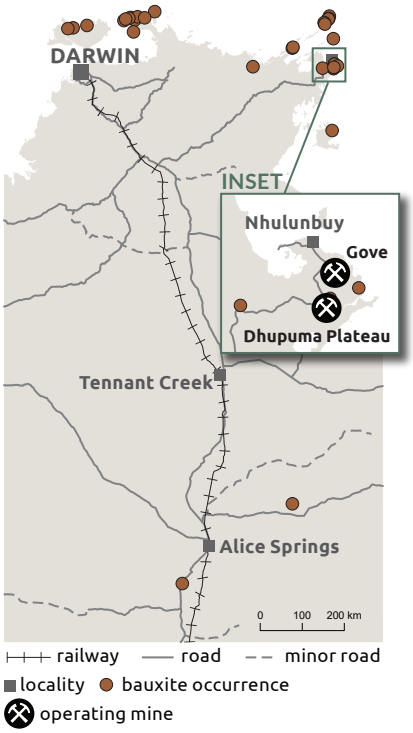
More detail on advanced critical minerals projects in the Territory can be found in the *Australian Critical Minerals Prospectus*.



Spodumene concentrate at Finniss Lithium Operation, courtesy of Core Lithium Ltd

13 Al Aluminium/Bauxite

BATTERIES METAL ALLOYS



Aluminium is an essential material for the energy transition, as an element of electrical infrastructure, solar panels, and wind turbines, and also has application in some batteries and permanent magnets.

The Territory is a long term producer of bauxite from Rio Tinto's Gove bauxite mine in the Carpentaria Basin in north eastern Arnhem Land. Gove has been mined continuously for more than 40-years with a mine life extending to 2030. Gove produces around 11 Mt per annum (tpa) of bauxite and accounts for nearly all past bauxite production and 90% of identified bauxite resources in the NT.

A smaller mine run by the Aboriginal-owned Gulkula Mining Company has been in operation at the Dhupuma Plateau near Gove since 2017 and produces around 500 000 tpa of bauxite. Further lateritic bauxite deposits occur along the northern coastline of Arnhem Land and adjacent islands.

Aluminium/bauxite resources

Name	Total JORC Mineral Resources	Total bauxite (Mt)	EDR bauxite (Mt)	Company
Gove	58 Mt @ 49.6% Al_2O_3	58.0	58.0	Rio Tinto
Dhupuma	not publicly announced	Confidential	Confidential	Gulkula Mining Pty Ltd
Total		**>58**	**>58**	

Note: Applicable to all Mineral Resources tables herein unless otherwise stated

- Total JORC Mineral Resources column refers to the JORC Code (2012 Edition) Inferred, Indicated and Measured Mineral Resources
- Total resource column (eg Total bauxite) refers to the total contained metal or non-metallic content within the Mineral Resource
- EDR resource column (eg EDR bauxite) refers to Economic Demonstrated Resource (Measured and Indicated) portion of the contained metal or non-metallic content within the Mineral Resource.



Bauxite from Gove mine, Carpentaria Basin

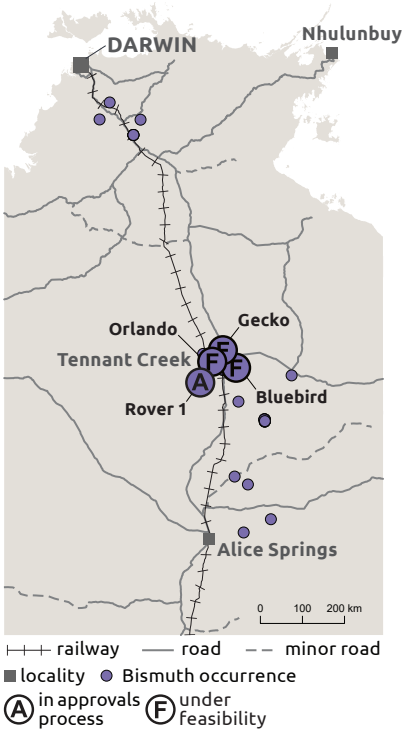
Bauxite production in the Territory:

- Gove bauxite mine has been in operation since 1971. It has produced over 340 Mt of bauxite. It was also a substantial producer of alumina till 2014.
- Nearly $6 billion worth of bauxite produced in NT in the past decade, with bauxite prices increasing significantly in the last 18 months.

To view the Northern Territory's mineral production value statistics, visit **dme.nt.gov.au/mining/mineral-production-data**

83 Bi Bismuth

TECH INDUSTRIES | DEFENCE TECHNOLOGIES | MEDICAL | METAL ALLOYS



Bismuth is a non-toxic heavy metal used in medicines, low-melting alloys and high-tech and defence applications. Bismuth is rarely mined as a primary product and is typically produced as a by-product of base metal and other metal ore processing, with global estimated production at 16 000 t in 2024[7].

The Tennant Creek mineral field historically produced over 21 000 t of bismuth as a by-product of high-grade copper-gold mining between the 1950s and 1970s. In 2025, updated JORC-compliant bismuth resources from deposits at Gecko-Orlando (CuFe Ltd), Rover 1 (Castile Resources Ltd), and Bluebird (Tennant Minerals Ltd) established a total resource inventory of 28 400 t of contained bismuth in the Tennant Creek and Rover mineral fields, highlighting the potential of the region as a globally significant source of bismuth.

High-grade bismuth has also been intersected in recent drilling at other deposits in the Tennant Creek region, such as Emmerson Resources Ltd's Golden Forty deposit. The University of Queensland and NTGS have identified elevated bismuth in tailings from historic gold mining in the Pine Creek region.

Bismuth resources

Name	Total JORC Mineral Resources	Total bismuth (kt)	EDR bismuth (kt)	Company
Rover 1	7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07% Co, 0.11% Bi, 23.97% magnetite	8.9	6.22	Castile Resources Ltd
Gecko	18.4 Mt @ 2.01% Cu, 0.25 g/t Au, 2.98 g/t Ag, 0.08% Bi	13.8	0.30	CuFe Ltd
Orlando	6 Mt @ 1.49 g/t Au, 1.16% Cu, 0.07% Bi, 1.37 g/t Ag	4.4	3.0	CuFe Ltd
Bluebird	1.58 Mt @ 1.3% Cu, 1.04 g/t Au, 2.67 g/t Ag, 839 g/t Bi	1.3	0.9	Tennant Minerals Ltd
Total		**28.4**	**10.4**	

[7]Source USGS mcs2025.pdf - Mineral Commodity Summaries 2025

Case study: Rover 1

Castile Resources Ltd | ASX:CST
www.castile.com.au

Castile Resources Ltd's flagship Rover 1 project is focused on a polymetallic iron oxide copper-gold (IOCG) deposit located 80 km southwest of Tennant Creek, which hosts one of Australia's few bismuth resources.

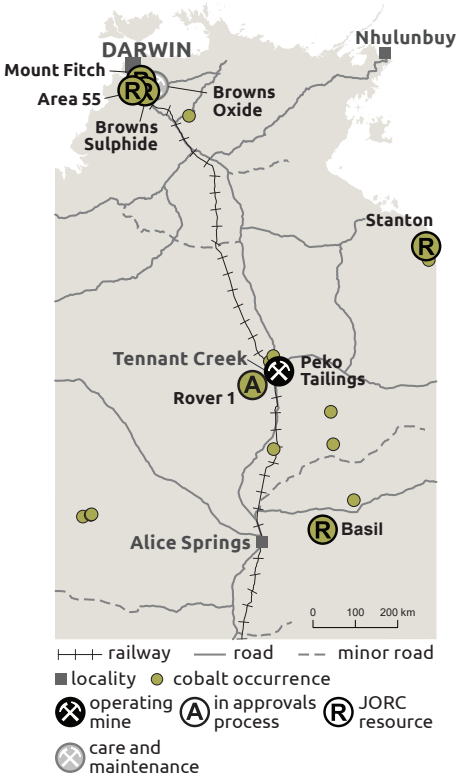
Castile plans to produce gold dore, 99% copper metal, cobalt sulphate and high-grade industrial magnetite from Rover 1, and are considering options for a downstream pathway for a bismuth concentrate after the other metals have been extracted. A preliminary analysis for a bismuth processing pathway has shown to successfully produce 99% bismuth from concentrate. Castile is currently working through a Bankable Feasibility Study to further optimise refinement pathways before they submit environmental and mining approvals.

Potential for resource growth exists with the deposit open at depth and over 100 IOCG targets identified within the Rover Mineral Field.

- In approvals process
- JORC Mineral Resource 7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07% Co, 0.11% Bi, 23.97% Magnetite
- Seeking offtake, equity, joint venture
- Bismuth to be added to Ore Reserve alongside release of BFS in 2026
- Production rate 28 700 oz/pa Au | 6900 tpa Cu | 300 tpa Co | 75 300 tpa Magnetite | Bismuth under assessment
- 8+ year mine life

27 Co Cobalt

METAL ALLOYS BATTERIES



There is strong demand for cobalt to accommodate the rapid growth of the lithium-ion battery market for electric vehicles.

The Territory is a potential emerging producer of cobalt associated with ironstone-hosted copper-gold mineralisation in the Tennant Creek and Rover mineral fields. In the Rover field, Castile Resources Ltd have defined a cobalt resource at the Rover 1 copper-gold deposit, and are planning future production of cobalt sulphate. High-grade copper and cobalt intersections have been reported at Emmerson Resources Ltd's Hermitage and Jasper Hills prospects north of Tennant Creek. Opportunities also exist to extract cobalt from tailings associated with historic mines in the Tennant Creek field. Central Core Pty Ltd's Peko Tailings project is currently producing magnetite, with potential to extract cobalt and copper from additional tailings.

The largest known cobalt resource in the NT is at the Browns deposit near Batchelor in the Pine Creek Orogen, where cobalt occurs within a large resource that also contains copper, nickel and lead. Sediment hosted cobalt-nickel-copper mineralisation occurs in the McArthur Basin, with significant exploration underway to discover more.

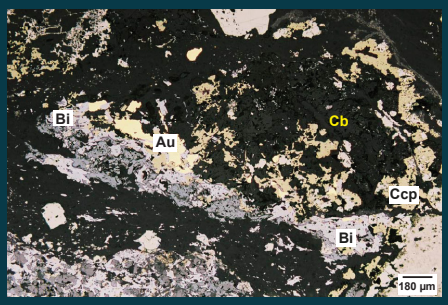
In central Australia, laterite-hosted nickel-cobalt occurs in the south-west Aileron Province and mafic-hosted copper-cobalt resources have been defined in the Irindina Province.

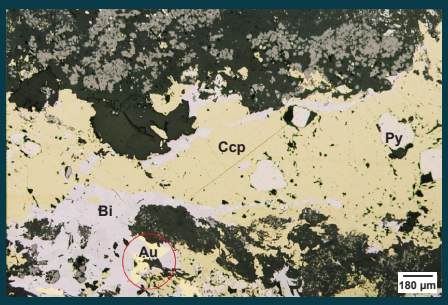
Cobalt resources

Name	Total JORC Mineral Resources	Total cobalt (kt)	EDR cobalt (kt)	Company
Browns Sulfide[8]	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	40.6	24.9	Northern Territories Resources Pty Ltd (under voluntary administration and projects listed for sale)
Browns Oxide[8]	2.64 Mt @ 1.02% Cu, 0.12% Co, 0.1% Ni	3.2	3.0	
Area 55[8]	12.2 Mt @ 0.49% Cu, 0.14% Co, 0.14% Ni	17.1	17.1	
Mount Fitch[8]	5.3 Mt @ 0.36% Cu, 0.09% Co, 0.12% Ni	4.8	4.0	
Basil	26.5 Mt @ 0.57% Cu, 0.05% Co	13.4	0	Typhon Minerals Pty Ltd
Rover 1	7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07% Co, 0.11% Bi, 23.97% magnetite	5.2	3.8	Castile Resources Ltd
Peko Tailings	3.62 Mt @ 1.1 g/t Au, 0.22% Cu, 0.1% Co	3.5	0	Central Core Operating Pty Ltd
Stanton	0.94 Mt @ 0.13% Co, 0.12% Cu, 0.061% Ni	1.2	1.0	Golden Horse Minerals Ltd
Total		**88.9**	**53.8**	

[8]JORC 2004: Resource Assessment by Compass Resources NL in 2008



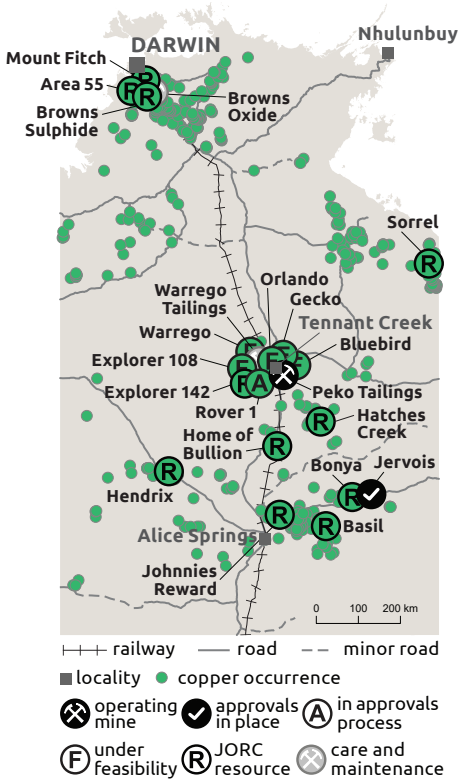




Photomicrographs from Rover 1 deposit showing native gold, bismuthinite and chalcopyrite. High grade cobalt values have also been associated with pyrite. NTGS Record 2023-010

29 Cu Copper

METAL ALLOYS | POWER | ELECTRIC VEHICLES | ELECTRONICS



Copper remains key to global decarbonisation and electrification with demand rapidly expected to outgrow supply. The Territory remains underexplored for copper with opportunities across many provinces and mineralisation styles.

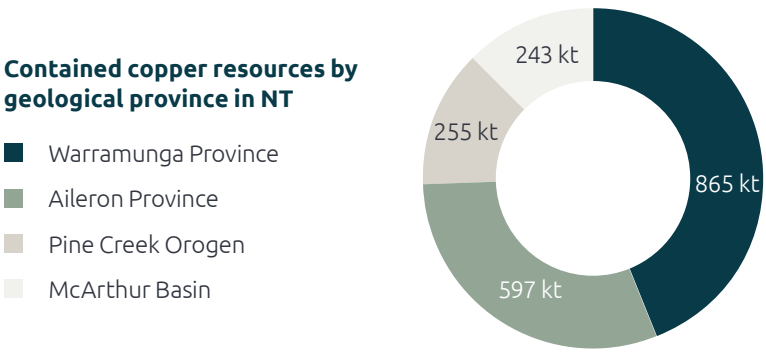
The Aileron Province is a significant emerging greenfields copper province with a variety of mineralisation styles identified across a large area. The most advanced project is KGL Resources Ltd's Jervois copper-silver-gold project, which has environmental and mining approvals in place and is preparing for a Final Investment Decision (FID) in 2026. Mineralisation at Jervois occurs in a series of stratabound, subvertical sulphide-rich deposits along a 12 km strike length of amphibolite facies metasedimentary rocks.

The Warramunga Province hosts the Tennant Creek mineral field, where the majority of the Territory's past copper production has been sourced from ironstone-hosted gold-copper-bismuth deposits. In 2025, almost 500 000 t of contained copper was added to the resource inventory from new and historic drilling. Exploration continues with potential for further high-grade copper-gold discoveries in both the Tennant Creek and Rover mineral fields. Multiple companies are investigating the potential for copper production from the region. Tennant Mines are scoping copper production from Warrego and other deposits in the field to complement their existing gold production, Castile Resources is planning copper production from the Rover mineral field and a Strategic Alliance comprising Tennant Minerals Ltd, Emmerson Resources Ltd and CuFe Ltd are assessing the potential for a multi-user copper, gold and critical minerals facility. Vast areas east of Tennant Creek also have high potential for copper-gold deposits beneath sedimentary cover.

The greater McArthur Basin, and equivalent successions in the South Nicholson Basin and Lawn Hill Platform have substantial and largely untested potential for sediment-hosted copper mineralisation. South32 Ltd are undertaking regional scale greenfields exploration programs for sediment-hosted copper in joint-venture with Encounter Resources Ltd.


Copper from Jervois, Aileron Province

Contained copper resources by geological province in NT



Case study: Jervois

KGL Resources Ltd | ASX:KGL
www.kglresources.com.au

KGL Resources Ltd plan to produce a high-grade copper concentrate with gold and silver credits at Jervois, 270 km northeast of Alice Springs. All mining and environmental approvals are in place with a FID pending.

The mine will consist of two open cut mines (Reward and Bellbird) that will be developed first, followed by underground mining at four deposits. A Feasibility Study update released in February 2025 was underpinned by an increase in Ore Reserves to a 10-year mine life, with projected annual production of 30 000 t of copper, 8900 oz of gold and 1.1 Moz of silver within a concentrate.

Jervois has an 18-month construction schedule followed by a 6-month plant commissioning and ramp up program to achieve forecast concentrate production during 2027 (subject to completing satisfactory financing arrangements). The copper resource is likely to continue to grow with further exploration, with strong potential to extend the mine life.

29 Cu Copper

METAL ALLOYS | POWER | ELECTRIC VEHICLES | ELECTRONICS

Copper resources

Name	Total JORC Mineral Resources	Total copper (kt)	EDR copper (kt)	Company
Jervois	28.95 Mt @ 1.76% Cu, 24.8 g/t Ag, 0.23 g/t Au	509.8	341.8	KGL Resources Ltd
Gecko	18.4 Mt @ 2.01% Cu, 0.25 g/t Au, 2.98 g/t Ag, 0.08% Bi	370.0	14.0	CuFe Ltd
Orlando	6 Mt @ 1.49 g/t Au, 1.16% Cu, 0.07% Bi, 1.37 g/t Ag	69.0	44.9	CuFe Ltd
Warrego	16.5 Mt @ 1.33% Cu, 1.1 g/t Au	219.2	187.4	Tennant Mines
Browns Sulfide[9]	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	157.9	67.4	Northern Territories Resources Pty Ltd (under voluntary administration and projects listed for sale)
Browns Oxide[9]	2.64 Mt @ 1.02% Cu, 0.12% Co, 0.1% Ni	26.9	25.9	
Area 55[9]	12.2 Mt @ 0.49% Cu, 0.14% Co, 0.14% Ni	59.8	59.8	
Mount Fitch[9]	5.3 Mt @ 0.36% Cu, 0.09% Co, 0.12% Ni	4.8	4.0	
Basil	26.5 Mt @ 0.57% Cu, 0.05% Co	151.1	0	Typhon Minerals Pty Ltd
Rover 1	7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07% Co, 0.11% Bi, 23.97% magnetite	97.4	73.2	Castile Resources Ltd
Explorer 142	0.18 Mt @ 5.21% Cu, 0.21 g/t Au	9.2	0	Castile Resources Ltd
Explorer 108	5.7 Mt @ 0.36% Cu	20.3	20.3	Castile Resources Ltd
Sorrel	8.4 Mt @ 1.1% Cu	92.4	0	Golden Horse Minerals Ltd
Home of Bullion	3.1 Mt @ 1.7% Cu, 2.0% Zn, 1.1% Pb, 35 g/t Ag, 0.17 g/t Au, 0.02% Co	51.7	13.0	Raptor Metals Ltd
Hatches Creek	12 Mt @ 0.17% WO_3, 0.12% Cu, 6.1 Mt @ 0.29% Cu	32.1	0	Tungsten Mining NL
Hendrix	2.6 Mt @ 6.7% Zn, 0.9% Cu, 1.5% Pb, 35 g/t Ag	22.5	0	Trinex Metals Ltd
Bluebird	1.58 Mt @ 1.3% Cu, 1.04 g/t Au, 2.67 g/t Ag, 839 g/t Bi	20.6	15.4	Tennant Minerals Ltd
Warrego Tailings	9.11 Mt @ 35% Fe, 0.21% Cu, 0.48 g/t Au	19.1	confidential	Northern Iron Pty Ltd (under voluntary administration)
Hayes Creek	4.08 Mt @ 1.81 g/t Au, 0.25% Cu, 4.35% Zn, 0.91% Pb, 124 g/t Ag	10.0	9.3	Patronus Resources Ltd
Johnnies Reward	2.2 Mt @ 0.4% Cu, 0.7 g/t Au	8.8	0	Aureus Mining Ltd
Peko Tailings	3.62 Mt @ 1.1 g/t Au, 0.22% Cu, 0.1% Co	8.1	0	Central Core Operating Pty Ltd
Bonya	0.23 Mt @ 2% Cu	4.6	0	Thor Energy PLC
Total		**1965.1**	**876.3**	

Note: Table only lists total contained copper resources greater than 4000 t.
[9]JORC 2004: Resource Assessment by Compass Resources NL in 2008

Mining approvals in place

JORC Ore Reserves 14.38 Mt @ 1.77% Cu, 0.26 g/t Au, 26.27 g/t Ag

10-year mine life

Production rate 30 000 tpa Cu | 8900 oz/pa Au | 1.1 Moz/pa Ag

Jobs up to 500 in production

CAPEX A$362M Awaiting FID

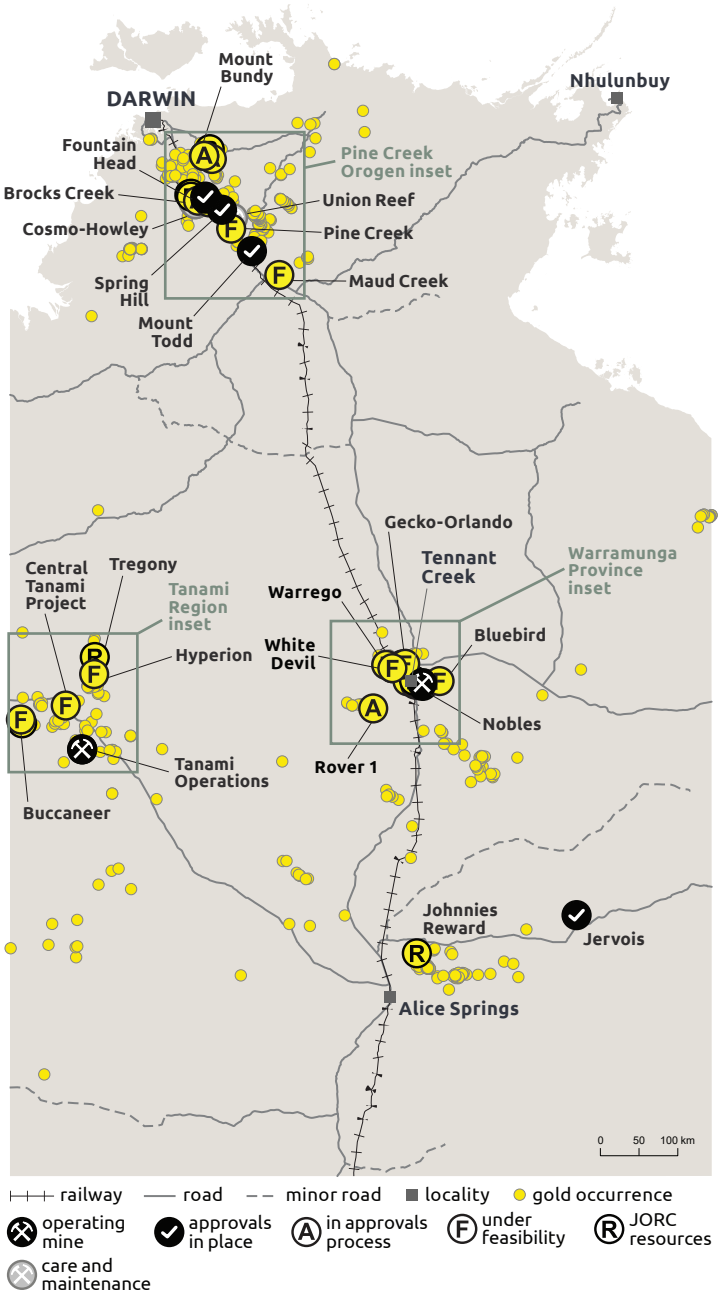
Seeking equity, joint venture and offtake

29 Cu
Jervois
Copper



79 Au Gold

BULLION JEWELLERY ELECTRONICS

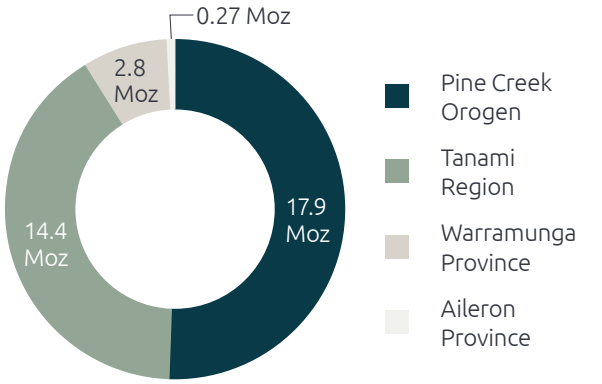


The Northern Territory has a long gold mining history dating back to the 1880s, and remains one of Australia's most prospective, but underdeveloped regions for gold. Established goldfields such as Tanami, Tennant Creek and Pine Creek have collectively produced more than 20 Moz of gold. Ongoing exploration continues to unlock value in these historic regions, while underexplored areas offer highly prospective greenfields opportunities. Since 2023, gold has been the most significant contributor to the Territory's mineral production value and plays a vital role in the Territory's economy.

Although underexplored, the Aileron Province also has a history of gold production totalling approximately 90 000 oz, primarily from alluvial sources and other historic workings. Current gold resources are largely associated with base metal deposits, including Jervois (210 000 oz of contained gold) and Johnnies Reward (approximately 50 000 oz of contained gold). These Mineral Resources are reported in copper and zinc tables. More recently, exploration in the Reynolds Range area has identified high-grade gold bearing quartz veins, in some cases associated with anomalous antimony.

The Territory's total JORC-compliant gold resource inventory is approximately 35 Moz, with nearly 25 Moz in Measured and Indicated categories. The Territory currently has two major operating gold mines at Newmont's Tanami Operations and Tennant Mines' Nobles operation, with a strong pipeline of developing projects.

Contained gold resources by geological province in the NT





Gold bar, Nobles mine in Tennant Creek

Gold production in the Territory:

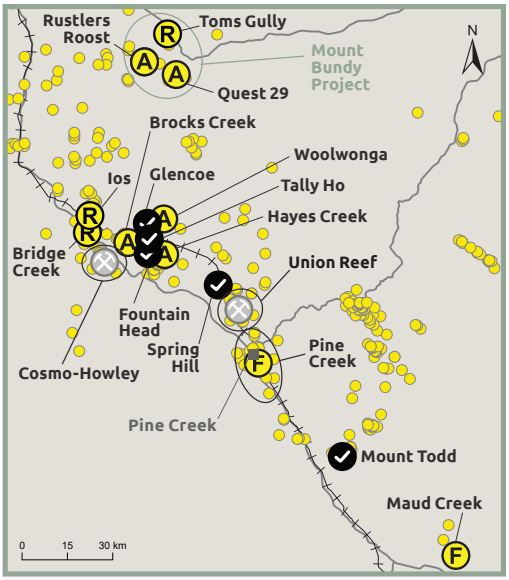
- Record $1.7B in gold production value in 2024-25
- Historic mining has produced over 20 Moz of gold with more than 23 Moz of remaining gold Economic Demonstrated Resources

To view the Northern Territory's mineral production value statistics, visit **dme.nt.gov.au/mining/mineral-production-data**

79 Au Gold

BULLION JEWELLERY ELECTRONICS

Pine Creek Orogen inset



railway road minor road
locality gold occurrence
operating mine approvals in place in approvals process under feasibility
JORC resources care and maintenance

Located close to Darwin, the Pine Creek Orogen has a near-continuous 140-year history of gold mining with more than 4 Moz of gold produced, and nearly 18 Moz in remaining gold resources. Most production has been from orogenic gold deposits in Palaeoproterozoic metasedimentary rocks, with gold most commonly hosted in quartz veins, lodes, sheeted veins, stockworks and saddle reefs, and some gold also hosted within iron-rich sediments. Gold also occurs with zinc and silver associated with volcanic-associated massive sulphide deposits.

There are numerous active gold explorers and developers in the Pine Creek region, with the most advanced projects including Vista Gold's high-tonnage, moderate-grade Mount Todd project, Primary Gold's Mount Bundy project, and numerous gold resources north of Pine Creek that are held by PC Gold, Bacchus Resources, Patronus Resources and other companies. Agnico Eagle have a large land holding in the Pine Creek region, with advanced projects at Maud Creek, Pine Creek and Union Reefs and a gold processing plant that is currently in care and maintenance. In addition to the substantial potential for re-opening of historic mines, there is high potential for greenfields discoveries, with limited drilling to depths greater than 150 m in most areas.

NTGS is supporting this potential through pre-competitive geoscience designed to support exploration, including upgraded geophysical data and an updated regional geological framework.

Gold resources (Pine Creek Orogen)

Project	Deposit	Total JORC Mineral Resources	Contained gold (Moz)	EDR gold (Moz)	Company
Mount Todd	Batman, Heap Leach and Quigleys	364.4 Mt @ 0.81 g/t Au	9.48	7.87	Vista Gold Corporation
Pine Creek	Maud Creek, Pine Creek, Cosmo-Howley, Union Reefs & satellite deposits	39.62 Mt @ 2.39 g/t Au	3.04	1.67	Agnico Eagle Mines Ltd
Mount Bundy (109 Mt @ 0.9 g/t Au)	Rustlers Roost	91.9 Mt @ 0.7 g/t Au	3.01	2.22	Primary Gold Pty Ltd
	Toms Gully	2.5 Mt @ 6.3 g/t Au			Primary Gold Pty Ltd
	Quest 29	14.2 Mt @ 1 g/t Au			Primary Gold Pty Ltd
Spring Hill	Spring Hill	25.6 Mt @ 1 g/t Au	0.82	0.43	PC Gold Ltd
Brocks Creek	Brocks Creek	20.1 Mt @ 0.9 g/t Au	1.00	Confidential	Bacchus Resources Pty Ltd
	Woolwonga	15.1 Mt @ 0.87 g/t Au			Bacchus Resources Pty Ltd
Hayes Creek	Mount Bonnie & Iron Blow	4.08 Mt @ 1.81 g/t Au, 0.25% Cu, 4.35% Zn, 0.91% Pb, 124 g/t Ag	0.24	0.21	Patronus Resources Ltd
Fountain Head	Fountain Head	2 Mt @ 1.5 g/t Au	0.23	0.16	Patronus Resources Ltd
	Glencoe	2.1 Mt @ 1.18 g/t Au			Patronus Resources Ltd
	Tally Ho	0.9 Mt @ 2 g/t Au			Patronus Resources Ltd
Mount Porter	Mount Porter	0.7 Mt @ 2.2 g/t Au	0.05	0.04	Patronus Resources Ltd
Bridge Creek & Ios	Bridge Creek & Ios	2.47 Mt @ 1.19 g/t Au	0.09	0	Far Northern Resources Ltd
Total			**17.97**	**12.60**	

Note: Table only lists total contained gold resources greater than 50 000 oz.

Case study: Spring Hill

PC Gold Ltd | ASX:PC2
www.pcgold.com.au

The Spring Hill project is located 27 km north-northwest of Pine Creek township within the historically rich Pine Creek goldfield. Spring Hill hosts a high-grade, sheeted vein system, typical of gold mineralisation in the region. The current JORC-compliant resource includes 821 000 oz of gold with promising targets to expand the resource at the Eastern Lode, Lasagne Target and Macau Extension.

PC Gold Ltd successfully listed on the Australian Securities Exchange (ASX) in late 2025, and all mining and environmental approvals are currently in place for an initial 100 000 ounce per year, open-pit operation. PC Gold Ltd have commenced a plant engineering study to evaluate a standalone CIL plant at Spring Hill.

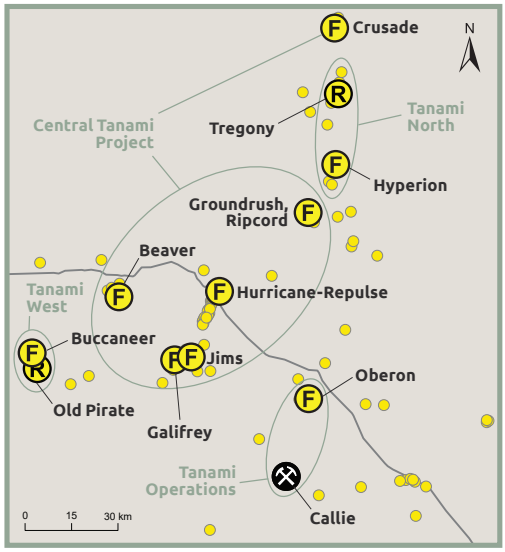


Approvals in place
JORC Mineral Resource 25.6 Mt @ 1 g/t Au
Initial 5-year mine life
Production rate 102 koz/pa Au
Jobs up to 145 in production
CAPEX A$23M (using third party toll arrangement)
Seeking investment

79 Au Gold

BULLION JEWELLERY ELECTRONICS

Tanami Region inset



The Tanami region has seen more than 10 Moz of gold production since 1986 and is currently the Territory's most significant gold producing province. Mineralisation in the Tanami is typically orogenic gold, with gold hosted in quartz and/or quartz-carbonate veins in folded carbonaceous siltstone, iron-rich sediments, turbidite, basalt or dolerite.

The Tanami region is home to Newmont's Tanami Operations, one of Australia's largest gold mines, which is currently subject to a major expansion through the addition of a 1460 m shaft and associated infrastructure. This expansion project is expected to unlock approximately 600 000 oz of gold per annum from 2027, positioning it as Australia's second-largest gold mine (after Boddington).

The Tanami also hosts the Central Tanami Joint Venture, where an MGX Resources-Tanami Gold joint venture is seeking to proceed to a development decision on the project, which contains 2.8 Moz of contained gold, including 1.2 Moz at their flagship Groundrush deposit. Prodigy Gold Ltd is also actively exploring and progressing projects across the region.

Despite its proven endowment, much of the Tanami remains underexplored.

Gold resources (Tanami Region)

Project	Deposit	Total JORC Mineral Resources	Contained gold (Moz)	EDR gold (Moz)	Company
Tanami Operations	Callie	97.9 Mt @ 3.34 g/t Au	10.50	7.90	Newmont Corporation
	Oberon				Newmont Corporation
Central Tanami Project (39.62 Mt @ 2.39 g/t Au)	Groundrush & Ripcord	13 Mt @ 3.2 g/t Au	1.30	0.61	Central Tanami JV
	Carbine, Phoenix, Inca, Daddy, Funnelweb, Harleys, Huntsman, Huntswoman, Katipo, Money, Redback Rise, Redback SE, Redback SW, Bulldog, Dogbolter, Dogbolter NE, Kelpie, Lynx & Legs	6.8 Mt @ 2.9 g/t Au	0.63	0.38	Central Tanami JV
	Southern, Bouncer, Bumper, Gatling, Miracle, Tombola, Assault, Bastille, Battey, South Temby, Dinky,Dice, Thrasher, Airstrip, Hurricane & Repulse	5.4 Mt @ 2.7 g/t Au	0.46	0.17	Central Tanami JV
	Camel Bore & Jims	3.2 Mt @ 2.4 g/t Au	0.25	0.08	Central Tanami JV
	Beaver, Banjo, Bonsai, Orion, Pendragon & Cheeseman	1.3 Mt @ 2.5 g/t Au	0.11	0.06	Central Tanami JV
	Crusade	1.6 Mt @ 2.2 g/t Au	0.11	0.11	Central Tanami JV
	Thrasher & Galifrey	0.21 Mt @ 1.8 g/t Au	0.01	0.00	Central Tanami JV
Tanami North	Hyperion	9.66 Mt @ 1.4 g/t Au	0.44	0.13	Prodigy Gold NL
	Tregony	2.01 Mt @ 1.2 g/t Au	0.08	0.03	Prodigy Gold NL
Tanami West	Buccaneer	11.2 Mt @ 1.1 g/t Au	0.40	0.17	Prodigy Gold NL
	Old Pirate	0.76 Mt @ 4.7 g/t Au	0.12	0.01	Prodigy Gold NL
Total			**14.40**	**9.64**	

Case study: Hyperion

Prodigy Gold NL | ASX:PRX
www.prodigygold.com.au



Under feasibility

JORC Mineral Resource 9.66 Mt @ 1.4 g/t Au

Seeking investment, joint venture

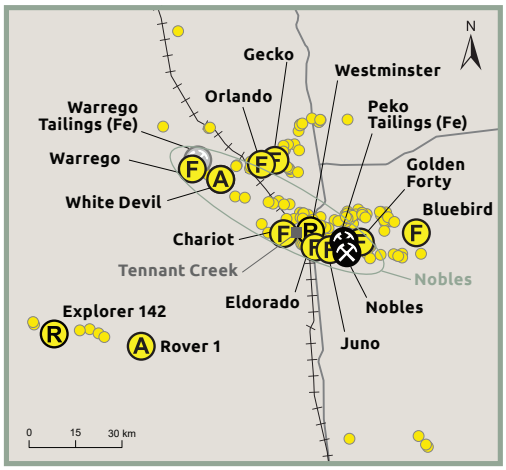
Prodigy Gold NL is progressing its Tanami North project, 550 km northwest of Alice Springs, following a successful 2025 drilling program at the Hyperion and Tregony deposits. Drilling at Hyperion delivered encouraging high-grade intersections, including 24 m @ 5.5 g/t and 18 m @ 4.2 g/t in the Suess lode and adjacent zones, confirming the continuity of broad, higher-grade mineralisation near surface. Prodigy's combined Tanami North and broader Tanami West projects now host a total JORC-compliant gold resource inventory of about 1.03 Moz of gold across several deposits.

Prodigy will continue metallurgical testwork into 2026, assessing oxide, transition and fresh material to better understand heap-leach, conventional CIL and ore sorting potential following initial positive recovery results. An application for a Mineral Lease over Hyperion is underway, and environmental work has commenced to support future mining approvals.

79 Au Gold

BULLION JEWELLERY ELECTRONICS

Warramunga Province inset



railway road minor road
locality gold occurrence
operating mine (A) in approvals process (F) under feasibility (R) JORC resources
care and maintenance

Tennant Creek is re-emerging as a key mining district in the Northern Territory. High-grade gold and gold-copper-bismuth deposits are hosted within magnetite and/or hematite-rich ironstone bodies in Palaeoproterozoic rocks of the Warramunga Province in both the Tennant Creek mineral field and the undercover Rover mineral field, 70 km to the southwest. Historic production from the Tennant Creek field totals more than 5 Moz of gold, approximately 470 000 t of copper and more than 21 000 t of bismuth, with selenium also produced as a by-product. Remaining gold resources in the region total 2.8 Moz with substantial resource growth in recent years.

After a 20-year hiatus, gold production in the Tennant Creek region recommenced in 2025, with the opening of the Nobles gold mine by Tennant Mines. Tennant Mines is advancing a pipeline of projects across the Tennant Creek field with potential to support more than 15-years of operations. Exploration is active in the region, with a Tennant Mines-Emmerson Resources joint venture defining 600 000 oz of high-grade gold resources at the White Devil deposit during 2025. In the Rover mineral field 70 km southwest of Tennant Creek, Castile Resources are progressing feasibility on the high-grade Rover 1 deposit, and exploring multiple gold-copper prospects at depth. High potential also exists for the discovery of copper-gold deposits under shallow Georgina Basin cover in areas up to 150 km east of Tennant Creek.

Gold resources (Warramunga Province)

Project	Deposit	Total JORC Mineral Resources	Contained gold (Moz)	EDR gold (Moz)	Company
Nobles (27.54 @ 2.01 g/t Au)	Crown Pillar Stockpile	1.26 Mt @ 1.48 g/t	0.60	0.06	Tennant Mines
	Nobles Pit and satellite deposits	Confidential			Tennant Mines
	Warrego	16.5 Mt @ 1.1 g/t Au, 1.33% Cu	0.58	Confidential	Tennant Mines
	White Devil[10] (Emmerson JV)	4.71 Mt @ 4.1 g/t Au	0.61	0.55	Tennant Mines
	Juno	1.95 Mt @ 3.97 g/t Au	0.25	0	Tennant Mines
	Golden Forty (Emmerson JV)	0.935 Mt @ 4.5 g/t Au	0.13	0.11	Tennant Mines
	Chariot (Emmerson JV)	0.556 Mt @ 7.8 g/t Au	0.14	0.11	Tennant Mines
	Eldorado (Emmerson JV)	0.445 Mt @ 4.9 g/t Au	0.07	0.06	Tennant Mines
	Mauretania (Emmerson JV)	0.256 Mt @ 3.5 g/t Au	0.03	0.03	Tennant Mines
	Black Snake	79.9 kt @ 1.7 g/t Au	0.0005	0.004	Tennant Mines
Rover 1	Rover 1	7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07 % Co, 0.11% Bi, 23.97% Magnetite	0.34	0.25	Castile Resources Ltd
Gecko-Orlando	Orlando	6 Mt @ 1.49 g/t Au, 1.16% Cu, 0.07% Bi, 1.37 g/t Ag	0.29	0.13	CuFe Ltd
	Gecko	18.4 Mt @ 2.01% Cu, 0.25 g/t Au, 2.98 g/t Ag	0.15	0	CuFe Ltd
Peko Tailings	Peko Tailings	3.62 Mt @ 1.1 g/t Au, 0.22% Cu, 0.1% Co	0.13	0	Central Core Operating Pty Ltd
Westminster[11]	Westminster	0.11 Mt @ 25.6 g/t Au	0.09	0	Truscott Mining Corporation Ltd
Bluebird	Bluebird	1.58 Mt @ 1.3% Cu, 1.04 g/t Au, 2.67 g/t Ag, 839 g/t Bi	0.05	0.04	Tennant Minerals Ltd
Total			**2.86**	**1.34**	

[10]Mineral Resource updated December 2025
[11]JORC 2004

Case study: Nobles

Operating mine
JORC Ore Reserve 400 Koz Au
Mine life 8+ years
Production rate ramping up to 100 000 oz/pa Au from 2026-27

Tennant Mines Pty Ltd

www.panafricanresources.com

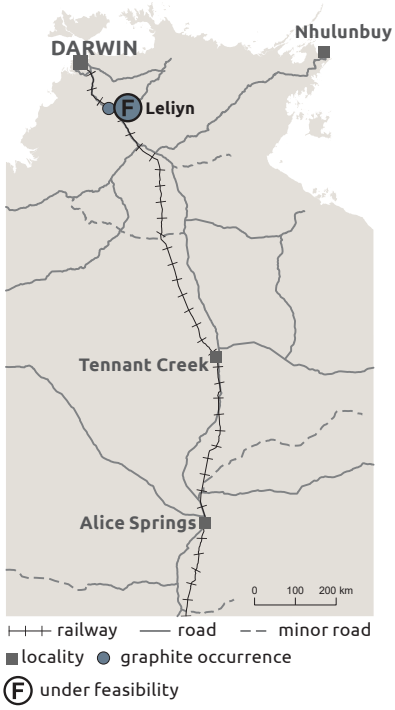
Tennant Mines, a wholly owned subsidiary of Pan African Resources PLC, commenced production in May 2025 from their 840 000 tpa Nobles gold processing facility, at the historic Nobles Nob mine site 13 km east of Tennant Creek. The project initially involves processing of higher-grade sections of waste rock dumps at the Nobles site, along with mining of remnant ore at the Nobles open pit and satellite orebodies. After initial onsite mining and processing, the mine will become a central processing plant for underground and open-pit mining of regional gold deposits, such as Golden Forty, Juno and White Devil. The plant is ramping up towards a production target of approximately 100 000 oz per annum, with feasibility underway on a Stage 2 development to add a copper circuit to allow mining of the Warrego copper-gold deposit. This expansion, and ongoing resource growth is projected to extend mine life beyond the initial 8-year estimate to more than 15-years.



6 C Graphite

BATTERIES

TECH INDUSTRIES



Graphite is an essential mineral for battery anode material, with the graphite market forecast to move into deficit, driven by EV battery demand and new export restrictions by key producers.

The Northern Territory has numerous graphitic units, especially in the Pine Creek Orogen, Tanami Region and Aileron Province, but has seen limited graphite exploration. In 2023, Kingsland Minerals Ltd discovered the Territory's first and one of Australia's largest graphite deposits at the Leliyn project near Pine Creek, 200 km south of Darwin.

Graphite resources

Name	Total JORC Mineral Resources	Total graphite (Mt)	EDR graphite (Mt)	Company
Leliyn	192.5 Mt @ 7.3% total graphitic carbon	14.0	1.0	Kingsland Minerals Ltd
Total		**14.0**	**1.0**	

Case study: Leliyn

Kingsland Minerals Ltd | ASX:KNG
www.kingslandminerals.com.au

The Leliyn deposit is located less than 30 km northeast of Pine Creek and 200 km south of Darwin, with a currently defined Mineral Resource Estimate containing 14 Mt of graphite. The potentially globally significant deposit occurs in a 20 km-long graphitic schist unit with a true width in excess of 100 m with an Exploration Target of 700 Mt – 1.1 Gt at 7% to 8% total graphitic carbon (TGC) for 50 – 90 Mt of graphite.

Kingsland Minerals is actively advancing the Leliyn Project. Metallurgical testwork confirmed the deposit can produce 99.7% purified spherical graphite using conventional processing. A 2025 Scoping Study demonstrated the project's economic and technical viability as a low cost, long term producer. Work is ongoing to demonstrate scalability and support the planned 2026 Prefeasibility Study, which includes a drilling program aimed at converting 60–70 Mt of Inferred resources to Indicated or Measured categories, with previous infill drilling achieving a conversion rate of approximately 95%.

Quinbrook Infrastructure Partners increased its equity stake in Kingsland to 19%, with an offtake agreement in place. Quinbrook is actively advancing metallurgical testwork to assess its suitability as feedstock for spherical graphite used in battery anodes, ahead of assessing downstream graphite processing at the Middle Arm Precinct near Darwin.


Graphitic schist

Graphite in the Territory:

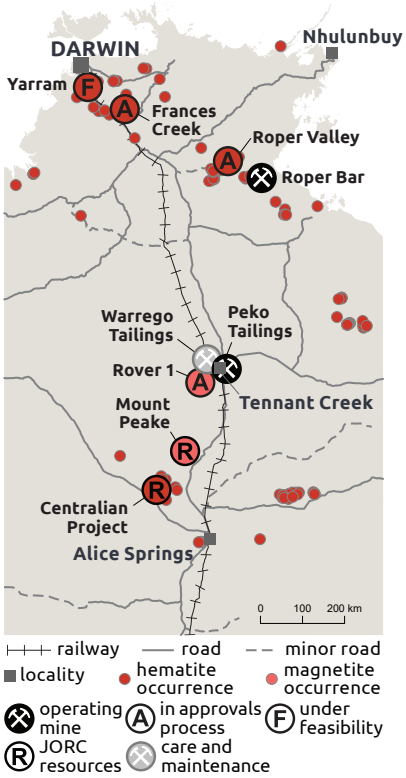
Since it's discovery and maiden JORC resource in 2024, Kingsland Minerals Leliyn deposit is Australia's largest and fastest-developing graphite resource.



- Under feasibility
- JORC Mineral Resource 192.5 Mt @ 7.3% total graphitic carbon
- Prefeasibility study underway
- Seeking investment and more offtake
- Downstream processing opportunities

26 Fe Iron Ore

STEEL PRODUCTION | CONSTRUCTION | TRANSPORTATION | MACHINERY



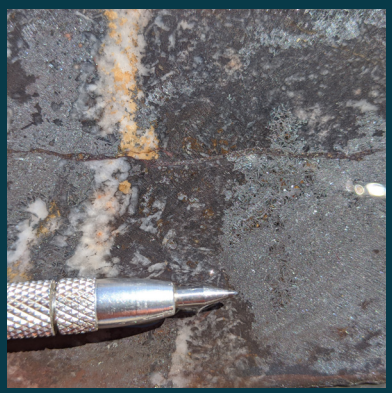
Iron ore is the essential raw material for global steel production. The Territory hosts several hematite- and magnetite-rich deposits, with around 20 Mt of production to date. Hematite currently being mined at the Roper Bar deposit, and magnetite production from tailings associated with historic copper-gold deposits from Tennant Creek is scheduled to ramp up in 2026.

Magnetite

Magnetite resources in the Northern Territory predominantly occur as a potential by-product, especially associated with magnetite-hosted copper-gold deposits in the Tennant Creek and Rover mineral fields. Historical gold and copper mining at Tennant Creek produced magnetite-rich tailings at Warrego and Peko that are currently being mined or evaluated for development, with proposed production volumes in the order of up to 1 Mt per year. Castile Resources Ltd are planning production of 75 300 tpa of magnetite as a by-product from proposed mining and processing of the Rover 1 deposit southwest of Tennant Creek.

Magnetite resources

Name	Total JORC Mineral Resources	Total Fe in magnetite (Mt)	EDR Fe in magnetite (Mt)	Company
Mount Peake	160 Mt @ 0.28% V_2O_5, 5.3% TiO_2, 23% Fe, 8.6% Al_2O_3, 34% SiO_2	36.8	33.2	Tivan Ltd
Peko Tailings	3.75 Mt magnetite-rich tailings	Confidential	Confidential	Central Core Operating Pty Ltd
Centralian Project	13.3 Mt @ 27.1% Fe, 53.9% SiO_2, 4.3% Al_2O_3	3.60	2.07	Mioxide NT Pty Ltd
Warrego Tailings	9.11 Mt @ 35% Fe, 0.21% Cu, 0.48 g/t Au	3.19	Confidential	Northern Iron Pty Ltd (under voluntary administration)
Rover 1	7.86 Mt @ 1.35 g/t Au, 1.24% Cu, 0.07 Co, 0.11% Bi, 23.97% Magnetite	1.88	1.37	Castile Resources Ltd
Total		**> 45.5**	**>36.6**	



Magnetite from Rover 1 Cu-Au-Bi-Co deposit, Warramunga Province, 80 km west of Tennant Creek

Hematite

The Roper Iron Field, hosted within the Roper Group of the McArthur Basin south of the Roper River, contains about 800 Mt of moderate-grade iron ore, including approximately 70 Mt of higher-grade (57–59% Fe) material at Roper Bar and Roper Valley. Roper Bar has been mined intermittently since 2013, and Nathan River Resources Pty Ltd is currently exporting up to 1 Mtpa of DSO from Roper Bar through Bing Bong Port.

The Pine Creek Orogen also hosts several smaller, high-grade, hydrothermally enriched hematite deposits, including Frances Creek which was mined from 1966–1974 and 2007–2014, and the Yarram iron ore deposits near Batchelor.

Hematite resources

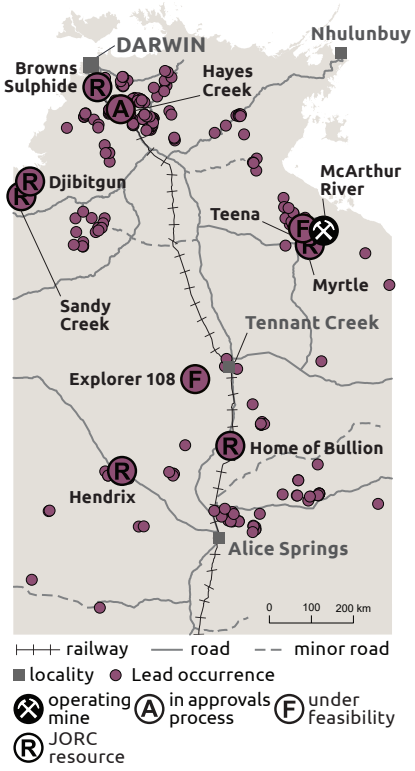
Name	Total JORC Mineral Resources	Total Fe hematite ore (Mt)	EDR Fe hematite ore (Mt)	Company
Roper Valley	488.1 Mt @ 41.7% Fe (Includes 41.1 Mt @ 57.8% Fe)	488.1	41.4	Northern Territory Iron Ore Pty Ltd
Roper Bar	279 Mt @ 41.5% Fe (Includes 28 Mt @ 59.4% Fe)	279.0	28.00	Nathan River Resources Pty Ltd
Frances Creek	23 Mt @ 53% Fe	23.0	Confidential	Linecrest Pty Ltd (under voluntary administration)
Yarram	12.7 Mt @ 55.4% Fe	12.7	0	CuFe Ltd
Total		**802.8**	**69.4**	



Oxidised hematite from Frances Creek iron ore deposit, Pine Creek Orogen

82 Pb Lead

BATTERIES | ENERGY STORAGE | CONSTRUCTION | AMMUNITION | METAL ALLOYS



Lead has recently been added as a critical mineral in the US and South Korea due to its importance in relatively low-cost and recyclable lead-acid batteries, transport and defence systems, and grid resilience and backup energy.

Glencore's McArthur River zinc-lead-silver mine has been a major producer of lead concentrate and zinc-lead concentrate, contributing more than $14 billion to the Territory's mineral production value since 1995. Annual production of lead in concentrate from McArthur River is in order of 50 000 t per year. Other substantial lead resources occur at Teena, close to McArthur River, and at the Brown Sulfide deposit near Batchelor in the Pine Creek Orogen. Smaller lead resources occur within polymetallic deposits in the Aileron Province, Warramunga Province, Pine Creek Orogen and Bonaparte Basin.

Lead resources

Name	Total JORC Mineral Resources	Total lead (Mt)	EDR lead (Mt)	Company
McArthur River Mine	127 Mt @ 9.4% Zn, 4.22% Pb, 43.5g/t Ag	5.35	5.2	Glencore PLC
Browns Sulfide[12]	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	1.69	1.07	Northern Territories Resources Pty Ltd (under voluntary administration and projects listed for sale)
Teena	58 Mt @ 11.1% Zn, 1.6% Pb	0.93	0	Teck Resources Ltd
Myrtle[13]	43.6 Mt @ 4.09% Zn, 0.9% Pb	0.39	0.05	Teck Resources Ltd
Explorer 108	11.9 Mt @ 3.2% Zn, 2.0% Pb, 11.1 g/t Ag	0.24	0.17	Castile Resources Ltd
Sandy Creek[14]	22.5 Mt @ 1.81% Zn, 0.44% Pb, 4.6 g/t Ag	0.10	0.04	Boab Metals Ltd
Djibitgun[14]	6.72 Mt @ 1.8% Zn, 0.6% Pb, 14 g/t Ag 19.9 Mt @ 16.4 g/t Ag, 0.5% Zn, 0.2% Pb	0.08	0	Boab Metals Ltd
Hendrix	2.6 Mt @ 6.7% Zn, 0.9% Cu, 1.5% Pb, 35 g/t Ag	0.04	0	Trinex Metals Ltd
Hayes Creek	4.08 Mt @ 1.81 g/t Au, 0.25% Cu, 4.35% Zn, 0.91% Pb, 124 g/t Ag	0.04	0.03	Patronus Resources Ltd
Home of Bullion	3.1 Mt @ 1.7% Cu, 2.0% Zn, 1.1% Pb, 35 g/t Ag, 0.17 g/t Au, 0.02% Co	0.03	0.01	Raptor Metals Ltd
Total		**8.9**	**6.6**	

[12]JORC 2004: Resource Assessment by Compass Resources NL in 2008
[13]JORC 2004: Resource Assessment by ROX Resources Ltd 28/02/2012
[14]JORC 2004: Resource assessment by TNG Ltd 31/03/2008

Lead in the Territory:

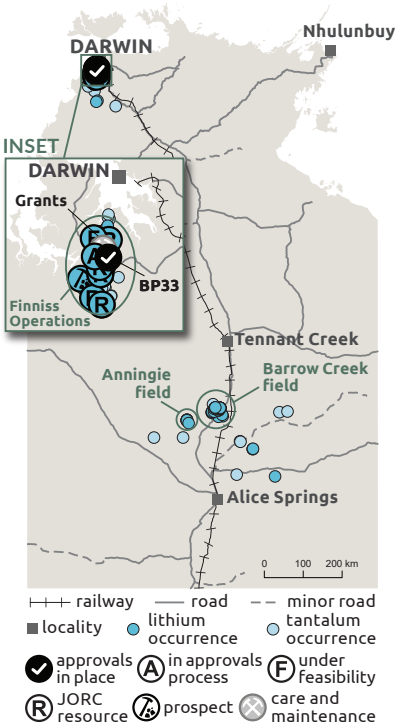
- The Territory's total resource inventory for lead is nearly 9 Mt, which is roughly 7% of global lead resources.



Lead mineralisation at Sandy Creek and Dijibitgun project area, onshore Bonaparte Basin, northwest NT

Lithium

BATTERIES | ELECTRIC VEHICLES | ELECTRONICS



Global lithium demand is expected to continue growing over the medium term, driven by lithium ion batteries for energy storage systems, electric vehicles, and consumer electronics, supporting a positive price outlook for 2026.

The Territory has significant lithium resources and exploration potential associated with spodumene-bearing pegmatites in the Bynoe pegmatite field, located close to the port of Darwin. This includes the Territory's first lithium mine at Core Lithium's Finniss Operations, which has been in care and maintenance since mid-2024 due to the significant fall in the lithium price.

Core Lithium conducted an extensive exploration program in 2024, supporting the conversion of additional Mineral Resources to Ore Reserves in 2025 and completion of a restart study in 2025.

Lithium Plus Minerals had a Mining Lease granted on the Lei deposit and commenced studies to support the submission of environmental and mining approvals.

There are also numerous earlier stage exploration projects underway, including in the Barrow Creek and Anningie pegmatite fields in the Aileron Province of central Australia, with iTech Minerals announcing identification of spodumene from surface rock samples in the Reynolds Range area and formally commencing a $2 million farm-in joint-venture with SQM Australia Pty Ltd, a subsidiary of the major Chilean lithium producer Sociedad Química y Minera de Chile (SQM).

Lithium resources

Project	Deposit	Total JORC Mineral Resources	Total lithium (kt)	EDR lithium (kt)	Company
Finniss Operations 48.2 Mt @ 1.26% Li_2O	Grants	2.32 Mt @ 1.45% Li_2O	282	172	Core Lithium Ltd
	BP33	10.5 Mt @ 1.53% Li_2O			
	Hang Gong	3.46 Mt @ 1.16% Li_2O			
	Sandras	1.73 Mt @ 0.89% Li_2O			
	Lees	11.2 Mt @ 1.14% Li_2O			
	Ah Hoy	4.64 Mt @ 1.31% Li_2O			
	Booths	3.24 Mt @ 1.02% Li_2O			
	Bilatos	1.92 Mt @ 1.03% Li_2O			
	Penfolds	1.36 Mt @ 1.24% Li_2O			
	Seadog	1.41 Mt @ 1.18% Li_2O			
	Carlton	6.34 Mt @ 1.30% Li_2O			
Lei	Lei	4.09 Mt @ 1.43 % Li_2O	27	2.4	Lithium Plus Minerals Ltd
Total			**309**	**174**	

Case study: Finniss

Core Lithium Ltd | ASX:CXO

www.corelithium.com.au

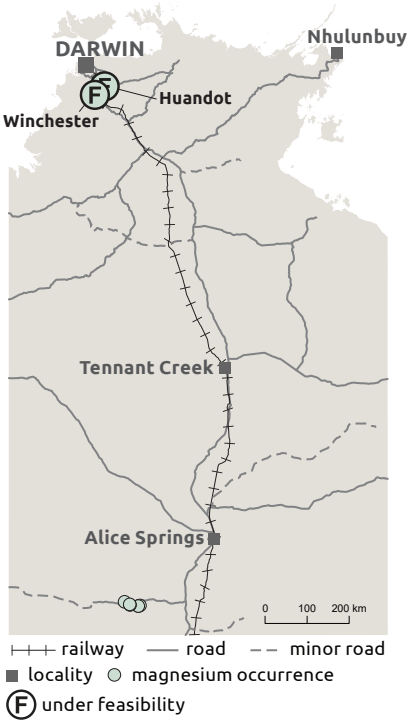
Core Lithium Ltd commenced production at the Territory's first lithium mine at the Finniss project near Darwin in late 2022. Mining progressed at the Grants open pit mine till mid-2024, when the operation went into care and maintenance due to market factors. In conjunction with mining at Grants open pit, Core Lithium commenced the box-cut for the fully approved underground BP33 deposit. In 2025, Core successfully completed a Restart Study, confirming a long life, lower-cost operation with increased production capability from multiple deposits. In September 2025, Core announced all spodumene offtake is unencumbered and available for project partners or spot sales. Most recently, Core has focused on strategies to advance an FID and operational readiness.

- Care and maintenance
- JORC Ore Reserve 15.2 Mt @ 1.26% Li_2O
- Mine life 16+ years
- Production rate 205 ktpa @ 6% Li_2O
- CAPEX $175–200M
- Seeking equity, joint venture and offtake available



12 Mg Magnesium

METAL ALLOYS ELECTRONICS



Magnesium metal is used as an alloying element to increase aluminium's rigidity and strength in aerospace and automotive applications, and is used in a range of electronics including mobile phones.

The Territory has significant magnesite deposits located near Batchelor in the Pine Creek Orogen, 75 km south of Darwin. Korab Resources Ltd's Winchester and Thessally Resources Pty Ltd's Huandot deposits occur as stratabound bodies within the Celia and Coomalie dolostones, and are located close to infrastructure and the Darwin Port. Both projects are undergoing scoping or feasibility studies including investigation of downstream processing options to produce caustic calcined magnesia and/or magnesium metal.

Magnesium resources

Name	Total JORC Mineral Resources	Total magnesite ore (Mt)	EDR magnesite (Mt)	Company
Winchester[15]	16.6 Mt @ 43.23% MgO	16.6	12.2	Korab Resources Ltd
Huandot	15.7 Mt @ 43.1% MgO	15.7	6.28	Thessally Resources Pty Ltd
Total		**32.3**	**18.5**	

[15]JORC 2004

Case study: Huandot



Thessally Resources Pty Ltd (private company)

www.thessally.com.au

Thessally Resources' high-grade Huandot magnesite deposit is located 80 km south of Darwin Port, proximal to road, rail, power and gas infrastructure. Drilling in 2023 increased the Mineral Resource by over 30%, with the deposit remaining open at depth. In October 2025, Thessally dispatched a 14 000 t bulk sample to Japan for steel refining testwork. Successful trials will represent a critical milestone and advance the project toward a low impact, staged development pathway, from direct-shipping magnesite ore to calcined magnesia and eventually magnesium metal.

A prior Scoping Study outlined a 20-year mine life with 300 ktpa production, 90% mining recovery, and 44.6% MgO feed grade for direct-shipping magnesite export. The project offers a significant development opportunity with potential to supply magnesia markets at scale.

- Under feasibility
- JORC Mineral Resource 15.7 Mt @ 43.1% MgO
- CAPEX Stage 1 DSO: A$4.5M Stage 2 CCM: A$40M
- Low strip ratio, open cut mine, simple processing
- Trail testwork underway
- Seeking investment and offtake



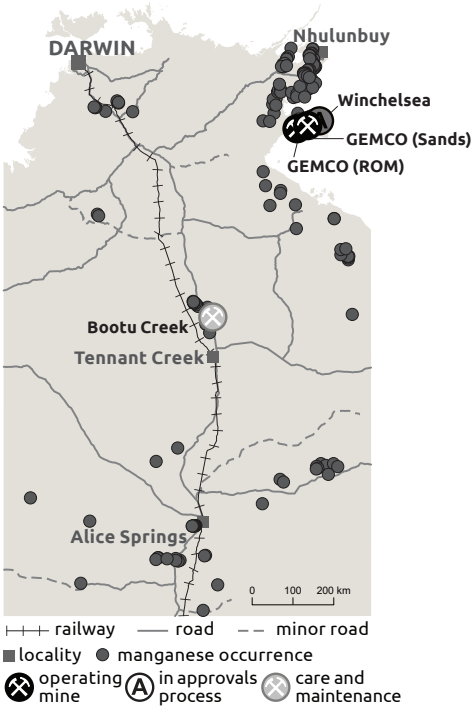
Magnesite drillcore from Huandot

Magnesium in the Territory:

- Significant near-surface magnesite resources located close to infrastructure.
- Potential for near-term mining with downstream processing opportunities.

25 Mn Manganese

BATTERIES METAL ALLOYS



The Territory is a world leader in manganese production, and will continue to be a major supplier of manganese to meet demand for alloying and battery applications.

GEMCO's Groote Eylandt manganese mine is the world's largest and lowest cost manganese mine. The mine has been in operation since 1966, it produces more than 10% of global production and is the largest long-term contributor to the Territory's mineral production value. A mine expansion into their Eastern Leases was approved in 2023, which will increase the life of mine beyond 2030.

OM Manganese Ltd's Bootu Creek mine was in operation from 2006–2021. A new mine is also proposed on Winchelsea Island, near Groote Eylandt with feasibility and approvals ongoing.

Manganese resources

Name	Total JORC Mineral Resources	Total manganese ore (Mt)	EDR manganese ore (Mt)	Company
GEMCO (ROM)	125 Mt @ 43.6% Mn	125	104	South 32 Ltd
GEMCO (Sands)	11 Mt @ 19.8% Mn	11	11	South 32 Ltd
Winchelsea	18.5 Mt @ 20.9% Mn	18.5	18.5	Winchelsea Mining Pty Ltd
Bootu Creek	6.92 Mt @ 13.18% Mn	6.9	6.9	OM Manganese Ltd
Total		**161.4**	**140.4**	

Case study: Winchelsea

Winchelsea Mining Pty Ltd

Winchelsea Mining » Anindilyakwa Land Council

Winchelsea Mining Pty Ltd are progressing the approvals process for a new manganese mine on Winchelsea Island, off the coast of Groote Eylandt, targeting production for 2026-27.

The proposed project involves low-cost shallow mining with little or no overburden and is majority owned by the local Traditional Owners through the Anindilyakwa Advancement Aboriginal Corporation. The workers base camp was completed in 2023. The project is progressing through the environmental assessment process.



Mineral lease granted 2022

In approvals process

JORC Ore Reserve 11.8 Mt @ 26.4% Mn

Mine life 16+ years

Jobs 100 construction 155 production

CAPEX A$100M

Mining agreement with Anindilyakwa Land Council



Groote Eylandt Port

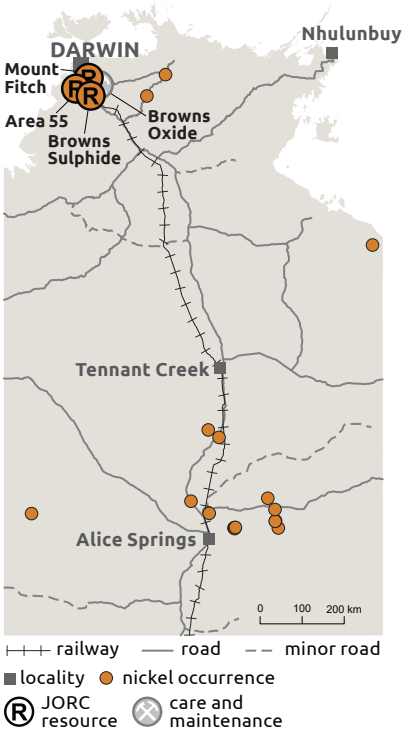
Manganese production in the Territory:

- Exploration opportunities for sedimentary and hydrothermal manganese deposits.
- More than $14 billion worth of manganese produced in the Territory in the past decade.

To view the Northern Territory's mineral production value statistics, visit **dme.nt.gov.au/mining/mineral-production-data**

28 Ni Nickel

BATTERIES METAL ALLOYS



Growth in electric vehicles and renewable energy is fuelling demand for nickel and other battery metals.

The Territory is prospective but underexplored for nickel. The only defined resources are in the polymetallic Browns deposit close to Darwin currently listed for sale, and a small resource at the Stanton Co-Cu-Ni deposit.

There is considerable potential for nickel sulphide deposits in the Aileron and Irindina provinces. While the region remains effectively unexplored for nickel, a number of prospects have been identified with numerous generations of mafic and ultramafic intrusions considered fertile for nickel mineralisation. Feeders to the widespread flood basalts of the Kalkarindji Province are also a prospective exploration target.

Nickel resources

Name	Total JORC Mineral Resources	Total nickel (kt)	EDR nickel (kt)	Company
Browns Sulfide[16]	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	31.6	21.5	Northern Territories Resources Pty Ltd (under voluntary administration and projects listed for sale)
Browns Oxide[16]	2.64 Mt @ 1.02% Cu, 0.12% Co, 0.1% Ni	13.2	2.5	
Area 55[16]	12.2 Mt @ 0.49% Cu, 0.14% Co, 0.14% Ni	17.1	17.1	
Mount Fitch[16]	5.3 Mt @ 0.36% Cu, 0.09% Co, 0.12% Ni	6.4	6.4	
Stanton	0.94 Mt @ 0.13% Co, 0.12% Cu, 0.061% Ni	0.6	0.5	Golden Horse Minerals Ltd
Total		**69**	**48**	

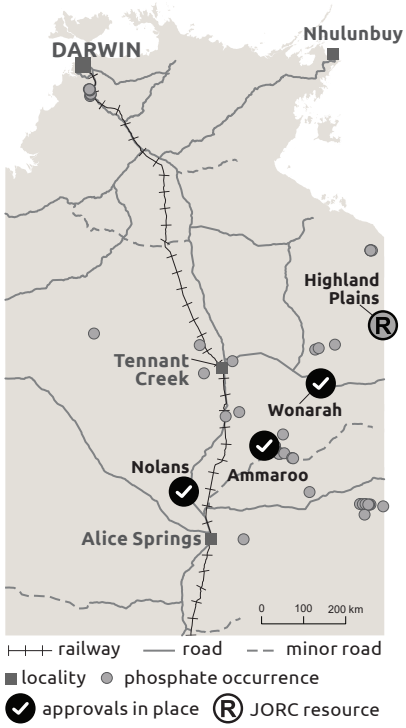
[16]JORC 2004: Resource Assessment by Compass Resources NL in 2008



Baldrick nickel-copper prospect, Irindina Province, Central Australia

15 P Phosphate

BATTERIES FERTILIZER



The demand for phosphate for fertilisers will continue to grow as global food production needs to increase. Rapid growth of lithium-iron-phosphate (LFP) batteries for the electric vehicle and energy storage industries provides an additional market for phosphate products.

The Territory has Australia's largest undeveloped rock phosphate deposits in the Georgina Basin, including Verdant Minerals Ltd's Ammaroo deposit and Avenira Ltd's Wonarah deposit. These deposits comprise high-tonnage, near-surface sedimentary phosphorite. The resources have potential for near-term production of rock phosphate as direct shipping ore, and for value added products including yellow phosphorus, phosphoric acid, ammonium fertilisers and LFP cathode material. Potential exists for further phosphate discoveries in the vast Georgina and Wiso basins.

Arafura Rare Earths Ltd's Nolans rare earth deposit also contains a sizable phosphate resource, with planned production of 144 000 tpa of fertilizer-grade (54%) phosphoric acid from the proposed rare earth extraction plant.

Phosphate resources

Name	Total JORC Mineral Resources	Total P_2O_5 (Mt)	EDR P_2O_5 (Mt)	Company
Ammaroo	1141 Mt @ 14% P_2O_5	159.7	46.7	Verdant Minerals Ltd
Wonarah	66 Mt @ 30% P_2O_5 (27% cut-off); 812 Mt @ 18.1% P_2O_5 (10% cut-off)	147.0	54.9	Avenira Ltd
Nolans	56 Mt @ 2.6% REO, 11% P_2O_5	6.3	4.2	Arafura Rare Earths Ltd
Highland Plains[17]	53 Mt @ 16% P_2O_5	8.5	0	Gibb River Diamonds Ltd
Total		**321.5**	**105.8**	

[17] JORC 2004: Resource Assessment by Compass Resources NL in 2008

Case study: Ammaroo

Verdant Minerals Pty Ltd

www.verdantminerals.com.au

Verdant Minerals Pty Ltd is advancing the 1 Gt Ammaroo phosphate project, located 220 km southeast of Tennant Creek. A 2018 Definitive Feasibility Study confirmed the technical and economic viability of exporting phosphate concentrate from Ammaroo. The company has now successfully secured all required regulatory approvals, positioning the project to move confidently into the financing and development phase.

The open cut strip mining operation will include crushing, screening and beneficiation to produce high-grade phosphate rock for export. The product will be suitable for conversion to phosphoric acid for the manufacture of ammonium phosphate fertilisers.



2-years from FID to first product

Approvals in place

JORC Mineral Resource 138 Mt @ 15.7% P_2O_5 (10% cut-off, Measured category)

Proposed Production 1.2 Mtpa

Jobs 400 construction, 250 production

Seeking equity, joint venture and offtake



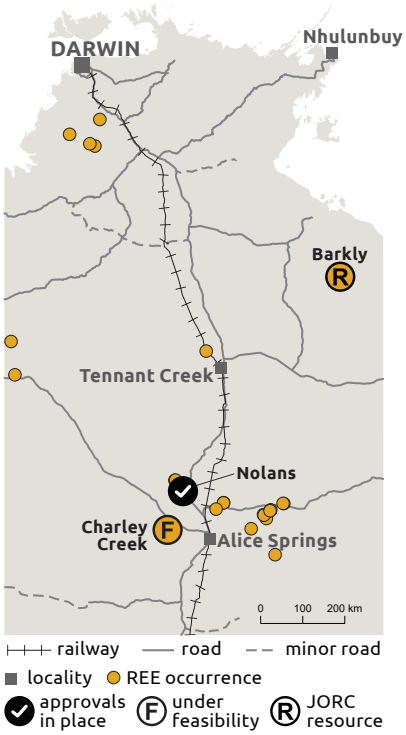
Phosphate in the Georgina Basin

Downstream plans for phosphate in the Territory:

- Australia's largest undeveloped phosphate deposits.
- Potential plans for downstream processing to products including phosphoric acid, yellow phosphorus, ammonium fertilisers and LFP.

Nd Pr Rare earth elements

WIND TURBINES | MAGNETS | ELECTRIC VEHICLES



There is growing global demand for permanent NdFeB magnets used in wind turbines, audio and electronics, electric vehicles and emerging fusion energy technology.

The Territory's most significant rare earth deposit, Arafura Rare Earths Ltd's Nolans project, is located in the Aileron Province north of Alice Springs, and promises to be Australia's first integrated mine and rare earth separation project. The deposit is hosted within fluorapatite veins containing allanite and monazite, and is rich in the magnet-feed rare earths neodymium and praseodymium (NdPr). The project is fully approved and has most finance in place as it approaches FID.

The Territory has high exploration potential for a range of rare earth mineralisation styles. This includes rare earth elements within xenotime and monazite in heavy mineral sands in central Australia and the Tiwi Islands, carbonatite-related rare earth elements in central Australia, discoveries of clay-hosted rare earth elements in the northern half of the Territory and vein-hosted xenotime (heavy rare earth elements) in the Tanami Region.

In 2023, Barkly Rare Earths Ltd announced a maiden resource of regolith-hosted rare earths at their Barkly REE-V project, with high NdPr grades and initial testwork showing excellent recoverability of NdPr. Recent additional regolith hosted rare earth mineralisation has been identified in the Carpentaria Basin, and associated with the Southwark Granite Suite in the western Aileron Province, central Australia.

Rare earth elements resources

Name	Total JORC Mineral Resources	Total rare earth oxides (kt)	EDR rare earth oxide (kt)	Company
Nolans	56 Mt @ 2.6% rare earth oxides (REO), 11% P_2O_5	1461.8	972.8	Arafura Rare Earths Ltd
Charley Creek[18]	805 Mt @ 0.029% REO, 0.05% Zircon	235.0	114.1	Enova Mining Ltd
Barkly	40 Mt @ 0.21% TREO, including 690 ppm NdPr	84.0	0	Barkly Rare Earths Ltd
Total		**1781**	**1087**	

[18]JORC 2004: Resource estimate done by Crossland Uranium Mines Ltd in 2012

Case study: Nolans

Arafura Rare Earths Ltd | ASX:ARU
www.arultd.com

Arafura Rare Earths Ltd's Nolans project is globally significant with the potential to meet around 4% of the world's global supply of NdPr. The company has all approvals in place for mining through to onsite separation of rare earths to produce 4440 tpa of NdPr oxide and 470 tpa of a mixed middle-heavy rare earth (SEG/HRE) oxide. They also plan to produce 144 000 tpa of fertilizer-grade phosphoric acid (54% P_2O_5). Enabling construction works were completed in 2023. Binding offtake agreements are in place with Hyundai, Kia, Siemens Gamesa and Traxys for up to 1320 tpa NdPr oxide, achieving 66% of its 80% target.

After conditionally securing debt funding of more than US$1 billion in 2024, Arafura has continued to advance project financing. The company has secured strategic support from the National Reconstruction Fund, which has provided a binding term sheet for an equity investment of A$200 million, alongside completion of a public capital raise of A$475 million. Under the recent Australia-United States Critical Minerals and Rare Earths Framework, Export Finance Australia conditionally approved up to US$100 million in equity, while the US Export-Import Bank issued conditional support for up to US$300 million. In addition, the German Raw Materials Fund is progressing due diligence on a potential investment of EUR$100 million. These developments position Arafura to reach an FID in 2026.

With a construction period of 3-years, the project is proposed to commence production in 2029. Further evaluation of a downstream processing hub for third party rare earth feedstock (including monazite concentrates) will underpin Phase 2 of the project.



Offtake available, FID in 2026

CAPEX US$1226M

Jobs 682 Construction 366 Production

Approvals in place

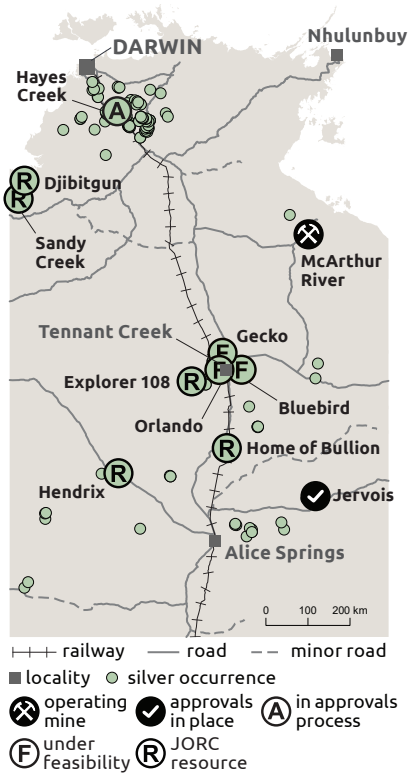
JORC Ore Reserve 29.5 Mt @ 2.9% REO, 13% P_2O_5

Mine life 39+ years

Proposed production 4440 tpa NdPr oxide | 470 tpa MREO | 144 000 tpa fertiliser grade (54%) phosphoric acid

47 Ag Silver

ELECTRONICS | SOLAR PANELS | METAL ALLOYS | DEFENCE TECHNOLOGIES



The US added silver to its list of critical minerals due to its essential role in electronics, solar panels and defence-related technologies.

The NT has been a substantial producer of silver for the last 30-years from Glencore's McArthur River zinc-lead-silver mine, which produces around 1.3 Moz of silver per year within concentrate. The NT's current silver resource inventory is 7.8 Moz, including 5.6 Moz at McArthur River. There is the potential for silver production from KGL Resources' Jervois copper-silver-gold project, and as a by-product in the Territory's near-term base metal and gold projects.

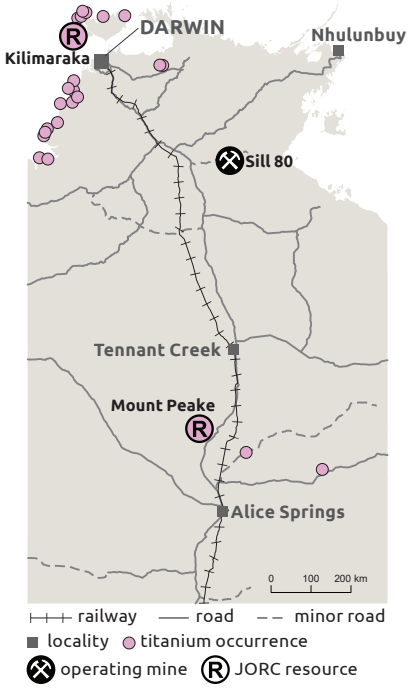
Silver resources

Name	Total JORC Mineral Resources	Total silver (Moz)	EDR silver (Moz)	Company
McArthur River	127 Mt @ 9.4% Zn, 4.22% Pb, 43.5g/t Ag	177.7	173	Glencore PLC
Jervois	28.95 Mt @ 1.76% Cu, 24.8 g/t Ag, 0.23 g/t Au	23.1	17	KGL Resources Ltd
Hayes Creek	4.08 Mt @ 1.81 g/t Au, 0.25% Cu, 4.35% Zn, 0.91% Pb, 124 g/t Ag	16.3	15	Patronus Resources Ltd
Djibitgun[19]	6.72 Mt @ 1.8% Zn, 0.6% Pb, 14 g/t Ag, 19.9 Mt @ 16.4 g/t Ag, 0.5% Zn, 0.2% Pb	13.5	0	Boab Metals Ltd
Sandy Creek[19]	22.5 Mt @ 1.81% Zn, 0.44% Pb, 4.6 g/t Ag	3.3	0.95	Boab Metals Ltd
Explorer 108	11.9 Mt @ 3.2% Zn, 2.0% Pb, 11.1 g/t Ag	4.2	3.9	Castile Resources Ltd
Home of Bullion	3.1 Mt @ 1.7% Cu, 2.0% Zn, 1.1% Pb, 35 g/t Ag, 0.17 g/t Au, 0.02% Co	3.5	0.82	Raptor Metals Ltd
Hendrix	2.6 Mt @ 6.7% Zn, 0.9% Cu, 1.5% Pb, 35 g/t Ag	2.9	0	Trinex Metals Ltd
Gecko	18.4 Mt @ 2.01% Cu, 0.25 g/t Au, 2.98 g/t Ag	1.8	0.06	CuFe Ltd
Orlando	6 Mt @ 1.49 g/t Au, 1.16% Cu, 0.07% Bi, 1.37 g/t Ag	0.26	0.25	CuFe Ltd
Bluebird	1.58 Mt @ 1.3% Cu, 1.04 g/t Au, 2.67 g/t Ag, 839 g/t Bi	0.14	0.12	Tennant Minerals Ltd
Total		**247**	**211**	

[19]JORC 2004: Resource assessment by TNG Ltd 31/03/2008

22 Ti Titanium

METAL ALLOYS | MEDICAL | AEROSPACE | CERAMICS



Australian Ilmenite Resources Pty Ltd's Sill 80 ilmenite mine produces high quality ilmenite (titanium-iron oxide) from mineral sands associated with weathered dolerite. The recently published JORC-compliant resource contains 7.2 Mt of ilmenite and production is expected to continue past 2030. Ilmenite also occurs in other mineral sands deposits in the NT, including coastal sands on the Tiwi Islands.

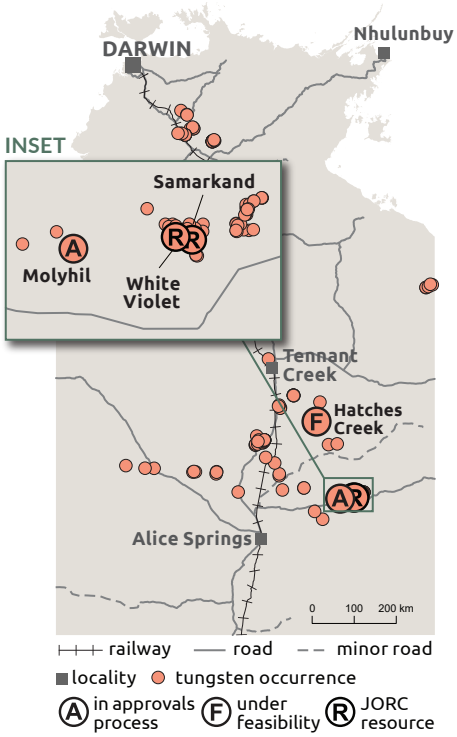
Tivan Ltd's Mount Peake deposit in the northern Aileron Province contains a significant titanium resource associated with vanadium-rich magnetite in a layered mafic intrusion. Kingsland Minerals Ltd have identified the potential for production of rutile as a by-product from their Leliyn graphite deposit, with drill intersections such as 266 m @ 0.47% TiO_2, and an Exploration Target of 190– 195 Mt @ 0.3-0.5% TiO_2.

Titanium resources

Name	Total JORC Mineral Resources	Total TiO_2 (Mt)	EDR TiO_2 (Mt)	Company
Sill 80	144.3 Mt @ 5% Ilmenite	7.22 (ilmenite)	Confidential	Australian Ilmenite Resources Pty Ltd
Mount Peake	160.4 Mt @ 0.28% V_2O_5, 5.3% TiO_2, 23% Fe	8.5 (TiO_2)	7.7 (TiO_2)	Tivan Ltd
Kilimiraka	56.2 Mt @ 1.6% heavy mineral sands (containing >92 000 t zircon, 57 000 t rutile, 127 000 t leucoxene and 368 000 t ilmenite)	0.368 (ilmenite) 0.057 (rutile)	0	Tiwi Resources Pty Ltd

74 W Tungsten 42 Mo Molybdenum

WIND TURBINES | METAL ALLOYS | DEFENCE TECHNOLOGIES



Tungsten and molybdenum are both primarily alloying metals used in aerospace, steel hardening, cutting and drilling.

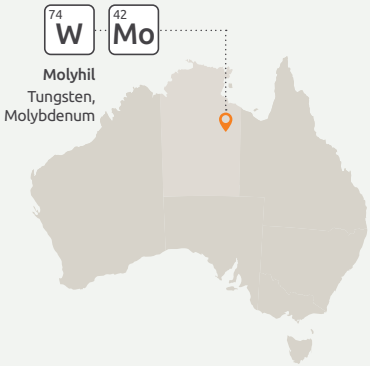
The Territory's most significant tungsten and molybdenum resource is at the Molyhil tungsten and molybdenum deposit hosted in the Aileron Province northeast of Alice Springs. Further tungsten occurrences are present in the Hatches Creek and Wauchope tungsten fields in the Davenport Province that produced most historic production of wolframite and scheelite. Historic occurrences across the Aileron province and Pine Creek Orogen highlight further potential.

Tungsten and Molybdenum resources

Name	Total JORC Mineral Resources	Total WO_3 (kt)	Total molybdenum (kt)	EDR WO_3 (kt)	EDR molybdenum (kt)	Company
Hatches Creek	12 Mt @ 0.17% WO_3	20.9				Tungsten Mining NL
Molyhil	4.65 Mt @ 0.26% WO_3, 0.09% Mo	12.1	4.4	8.5	2.9	Tivan Ltd
Samarkand	0.245 Mt @ 0.19% WO_3	0.5				Thor Energy PLC
White Violet	0.495 Mt @ 0.22% WO_3	1.1				Thor Energy PLC
Total		**34.5**	**4.4**	**8.5**	**2.9**	

Case study: Molyhil

Tivan Ltd | ASX:TVN
www.tivan.com.au



The Molyhil deposit is hosted in a scheelite-molybdenite-magnetite skarn located 220 km northeast of Alice Springs near the Plenty Highway, with estimated resources containing 12 100 t of tungsten and 4200 t of molybdenum. A Feasibility Study in 2018 was based on a 7-year open pit mine, followed by potential underground mining of deeper extensions of the deposit.

Tivan Ltd completed the purchase of the Moylhil tungsten and molybdenum project from Investigator Resources Ltd and Thor Energy PLC in early 2026. Tivan plan to test multiple exploration targets across the tenements alongside an updated Feasibility Study and work on the process flowsheet.

- In approvals process
- JORC Ore Reserve 3.5 Mt @ 0.29 WO_3, 0.12% Mo
- Mine life 7+ years
- Production rate | 1850 tpa WO_3 | 850 tpa Mo concentrate
- CAPEX A$69M
- Offtake available

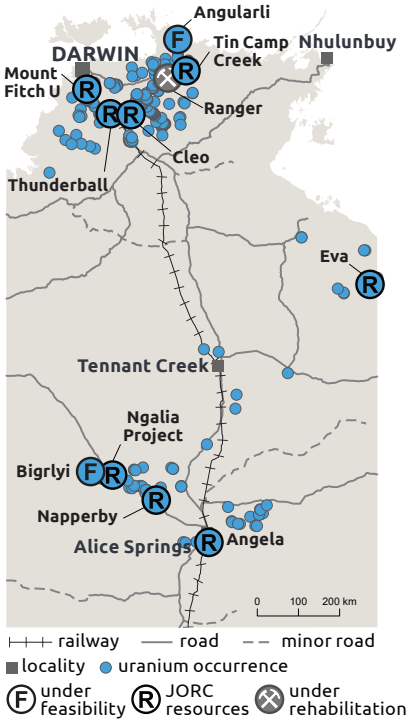

Tungsten rosette from the Molyhil deposit, Aileron Province

Tungsten and molybdenum in the Territory:

- The largest known tungsten and molybdenum resources occur in skarns in the Aileron Province.
- Tungsten-rich veins and greisens occur in the Davenport Province and Pine Creek Orogen associated with tin, copper and/or molybdenum.

92 U Uranium

ENERGY MEDICAL



The Northern Territory has been a long-term uranium producer, with the Ranger uranium producing 132 000 t of U_3O_8 prior to its closure in 2021. The Territory hosts significant uranium potential, and is the only Australian jurisdiction alongside South Australia that allows uranium mining. With rising global demand for low-carbon energy, the NT's uranium sector offers significant upside, supported by favourable geology, and established regulatory frameworks.

Uranium mineralisation occurs across several key provinces, especially the Pine Creek Orogen (including the Alligator Rivers Uranium Field), Ngalia Basin and Amadeus Basin. The Alligator Rivers field hosts Palaeoproterozoic unconformity-related uranium deposits such as the historically mined Ranger and Nabarlek deposits, and remains the subject of ongoing exploration and discovery, with Deep Yellow Ltd and Devex Resources Ltd currently the most active explorers in the field. Uranium potential has been demonstrated elsewhere in the Pine Creek Orogen, including Patronus Resources' high-grade Thunderball deposit and the historic Rum Jungle field near Batchelor.

Sandstone-type deposits occur in Palaeozoic sediments in the Ngalia and Amadeus basins in central Australia with substantial undeveloped deposits at Bigrlyi and Angela. Cenozoic palaeochannel-hosted uranium has also been identified in the Ngalia Basin area, and has the potential to become an important exploration target in Central Australia. There are also significant uranium occurrences in the basal southern McArthur Basin and underlying basement of the Murphy Province, close to the Westmoreland uranium deposit which occurs in adjacent regions of Queensland.

Uranium resources

Name	Total JORC Mineral Resources	Total U_3O_8 (kt)	EDR U_3O_8 (kt)	Company
Angela	10.7 Mt @ 0.13% U_3O_8	13.98	0	Elevate Uranium Ltd
Ngalia Project	36.91 Mt @ 0.034% U_3O_8	12.51	0	Energy Metals Ltd
Angularli	1.37 Mt @ 1.09% U_3O_8	11.75	0	Deep Yellow Ltd
Bigrlyi	7.94 Mt @ 0.137% U_3O_8, 0.127% V_2O_5	10.86	7.51	Energy Metals Ltd
Tin Camp Creek[20]	0.944 Mt @ 0.31% U_3O_8	2.95	0	Devex Resources Ltd
Napperby	9.54 Mt @ 0.04% U_3O_8	3.64	0	Elevate Uranium Ltd
Cleo	6.8 Mt @ 0.03% U_3O_8	2.36	0	Kingsland Minerals Ltd
Mount Fitch[21]	5.03 Mt @ 0.036% U_3O_8	1.83	1.68	Northern Territories Resources Pty Ltd (under voluntary administration)
Thunderball[22]	1.06 Mt @ 0.08% U_3O_8	0.84	0	Patronus Resources Ltd
Eva[23]	0.54 Mt @ 0.12% U_3O_8	0.65	0.59	UAU Pty Ltd
Total		**>61.4**	**9.8**	

[20] JORC 2004: Resource Assessment completed by Alligator Energy Ltd 19/04/2012
[21] JORC 2004: Resource Assessment by Compass Resources NL in 2008
[22] JORC 2004: Resource Assessment by Thundelarra Exploration Ltd on 07/02/2011
[23] JORC 2004: Resource assessment by Nupower Resources in 2011



High-grade uranium mineralisation at Thunderball, Pine Creek Orogen, courtesy of Patronus Resources Ltd

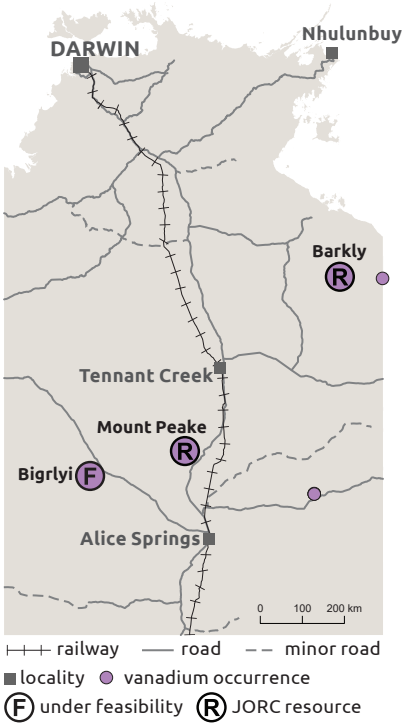
Proven global uranium producer:

- 132 000 t of U_3O_8 produced over more than 40-years from Ranger uranium mine in the highly prospective Alligator Rivers region, in the Pine Creek Orogen
- World class rehabilitation underway at Ranger
- Existing regulatory frameworks for uranium mining

To view the Northern Territory's mineral production value statistics, visit **dme.nt.gov.au/mining/mineral-production-data**

23 V Vanadium

METAL ALLOYS BATTERIES AEROSPACE



The demand for vanadium is expected to rise as the technology for long lifespan and durable vanadium redox flow batteries improves.

The Mount Peake deposit in the northern Aileron Province near Barrow Creek contains the Territory's largest high-grade vanadium resource, associated with vanadium-rich magnetite in a near-surface mafic intrusion. Exploration potential exists throughout the Aileron Province for further mafic-hosted vanadium magnetite occurrences.

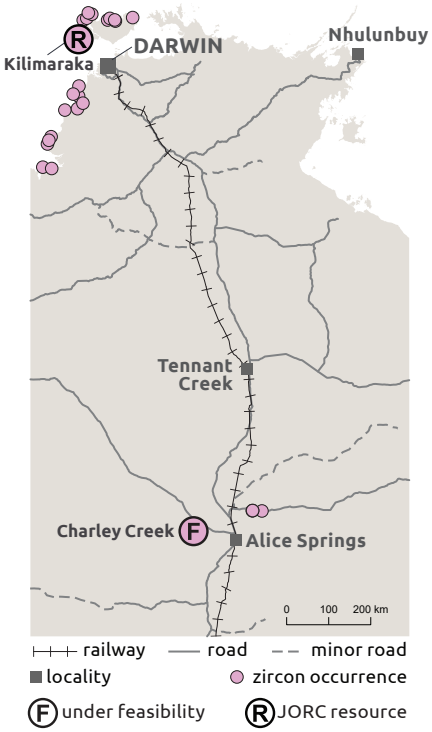
Vanadium also occurs in sandstone-hosted uranium deposits in central Australia. Energy Metal Ltd's Bigrlyi deposit is a shallow sandstone-hosted uranium-vanadium deposit that occurs on the edge of the Ngalia Basin. Laterite-hosted vanadium mineralisation has been recorded in the Carpentaria Basin with Barkly Rare Earths Ltd announcing a maiden Inferred Mineral Resource at the Barkly REE–V project, where vanadium is hosted within the regolith profile.

Vanadium resources

Name	Total JORC Mineral Resources	Total vanadium (kt)	EDR vanadium (kt)	Company
Mount Peake	160.4 Mt @ 0.28% V_2O_5, 5.3% TiO_2, 23% Fe	449.1	404	Tivan Ltd
Barkly	200 Mt @ 0.12% V_2O_5	240.0	0	Barkly Rare Earths Ltd
Bigrlyi	7.94 Mt @ 0.137% U_3O_8, 0.127% V_2O_5	10.1	7	Energy Metals Ltd
Total		**699.2**	**411**	

40 Zr Zirconium

METAL ALLOYS COOLANTS



Zircon is a refractory material and a principal component of metallic zirconium used for nuclear, space, aeronautic and medical applications. There is also growing demand for the zircon chemicals, particularly in catalytic converters for automotive and industrial exhaust systems to reduce emissions.

The Territory is a past producer of zircon from mineral sands deposits on the Tiwi Islands where mining took place between 2006 and 2013.

Enova Mining Ltd's Charley Creek deposit in central Australia is a large alluvial resource containing monazite, xenotime and an estimated 403 000 t of contained zircon. Further resources of mineral sands including more than 92 000 t of contained zircon have been defined in the southwest of Bathurst Island on the Tiwi Islands.

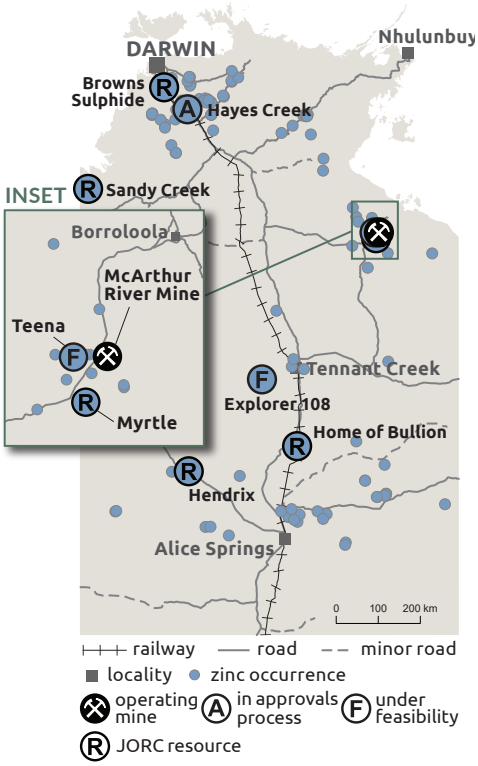
Zirconium resources

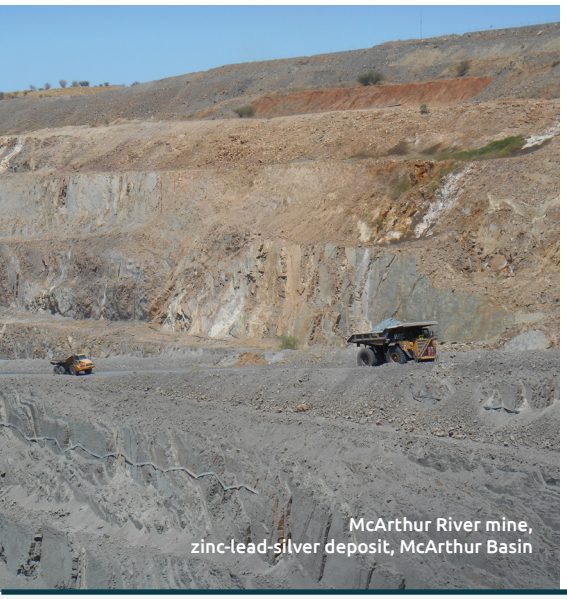
Name	Total JORC Mineral Resources	Total zircon (kt)	EDR zircon (kt)	Company
Charley Creek[24]	805 Mt @ 0.029% REO, 0.05% zircon	415.6	195.6	Enova Mining Ltd
Kilimiraka	56.2 Mt @ 1.6% heavy mineral sands (containing >92 000 t zircon, 57 000 t rutile, 127 000 t leucoxene and 368 000 t ilmenite)	92	0	Tiwi Resources Pty Ltd
Total		**507.6**	**195.6**	

[24] JORC 2004: Resource estimate done by Crossland Uranium Mines Ltd in 2012

30 Zn Zinc

BATTERIES | ELECTRIC VEHICLES | ELECTRONICS





McArthur River mine, zinc-lead-silver deposit, McArthur Basin

The Territory is a major zinc producer, hosting approximately 10% of global zinc resources, and is highly prospective for further zinc discoveries across a range of mineralisation styles.

Glencore's McArthur River mine has been continuously mined since 1995 and is one of Australia's largest zinc mines with a mine life past 2040. Teck Resources Ltd's Teena deposit, located close to McArthur River is the largest recent zinc discovery in Australia. The greater McArthur Basin, which extends north through underexplored East Arnhem, South Nicholson Basin and Lawn Hill Platform remain highly prospective for sediment-hosted zinc. This forms part of the Carpentaria Zinc Belt which extends into Queensland and is the world's most productive zinc province with substantial undercover potential in the NT.

The Pine Creek Orogen, Aileron Province and Bonaparte Basin also have known resources and high potential for polymetallic zinc, lead and silver deposits.

Zinc resources

Name	Total JORC Mineral Resources	Total zinc (Mt)	EDR zinc (Mt)	Company
McArthur River Mine	127 Mt @ 9.4% Zn, 4.22% Pb, 43.5g/t Ag	11.9	11.7	Glencore PLC
Teena	58 Mt @ 11.1% Zn, 1.6% Pb	6.4	0	Teck Australia Pty Ltd
Myrtle[25]	43.6 Mt @ 4.09% Zn, 0.9% Pb	1.8	0.21	Teck Australia Pty Ltd
Explorer 108	11.9 Mt @ 3.2% Zn, 2.0% Pb, 11.1 g/t Ag	0.38	0.29	Castile Resources Ltd
Hayes Creek	4.08 Mt @ 1.81 g/t Au, 0.25% Cu, 4.35% Zn, 0.91% Pb, 124 g/t Ag	0.18	0.17	Patronus Resources Ltd
Hendrix	2.6 Mt @ 6.7% Zn, 0.9% Cu, 1.5% Pb, 35 g/t Ag	0.18	0	Trinex Metals Ltd
Sandy Creek[26]	22.5 Mt @ 1.81% Zn, 0.44% Pb, 4.6 g/t Ag	0.41	0.10	Boab Metals Ltd
Djibitgun[26]	6.72 Mt @ 1.8% Zn, 0.6% Pb, 14 g/t Ag, 19.9 Mt @ 16.4 g/t Ag, 0.5% Zn, 0.2% Pb	0.22	0	Boab Metals Ltd
Browns Sulfide[27]	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	0.33	0.20	Northern Territories Resources Pty Ltd (under voluntary administration and project for sale)
Home of Bullion	3.1 Mt @ 1.7% Cu, 2.0% Zn, 1.1% Pb, 35 g/t Ag, 0.17 g/t Au, 0.02% Co	0.06	0.02	Raptor Metals Ltd
Total		**21.9**	**12.7**	

Note: Table only lists total contained zinc resources greater than 50 000 t.
[25] JORC 2004: Resource Assessment by ROX Resources Ltd 28/02/2012
[26] JORC 2004: Resource assessment by TNG Ltd 31/03/2008
[27] JORC 2004: Resource Assessment by Compass Resources NL in 2008

Case study: Teena

Teck Resources Ltd | NYSE:TECK
www.teck.com

Teck Resources Ltd's Teena zinc project is the largest zinc deposit discovered in Australia in the past 30-years, and is located 8 km west of the McArthur River mine. It is a large shale-hosted zinc-lead deposit of a similar style to McArthur River.

It was discovered in 2013 by Teck Resources in a joint venture with Rox Resources Ltd, with a maiden Mineral Resource announced in 2016. Teck are now 100% owners of the project, and have continued to advance exploration.

In 2023, Teck announced that they were advancing early-stage conceptual studies to assess the standalone development opportunity represented by Teena due to its location in a world-class zinc district with access to established infrastructure.



Emerging critical minerals in the Territory

The Territory has substantial potential to grow its critical minerals inventory. In addition to the Territory's current list of 21 critical minerals, there are 14 additional critical minerals listed in the following pages for which the Territory has known occurrences and demonstrated geological potential. The Territory has seen limited exploration to date for many of these commodities.

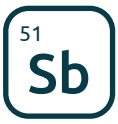
It is expected that in the coming decade, Mineral Resources will be defined for some of these commodities, at which time they will move into the Territory's critical minerals list.



Drill rig near Molyhil,
courtesy of Investigator Resource Ltd



Emerging critical minerals in the Territory



Antimony

Antimony occurs as a potential by-product in a number of gold deposits in the Northern Territory and has been identified in historic gold mine tailings in the Pine Creek Orogen. In 2025, iTech Minerals Ltd reported high-grade antimony rock chip samples from the Reynolds Range project in Aileron Province and subsequently completed a maiden drilling program testing beneath high-grade, outcropping antimony, gold (and copper) mineralisation at the Sabre, Falchion and Lander Prospects. Early results at Sabre include 4 m @ 4.54 g/t Au and 1.48% Sb from 24 m, and 5 m @ 4.7 g/t Au and 2.13% Sb from 78 m. Early results from Falchion include 6 m @ 10.2 g/t Au and 0.93% Sb from 18 m.



Beryllium

Beryllium is usually associated with felsic intrusions and pegmatite bodies, or where rare-metal enriched magmas interact with adjacent country rocks, forming skarn or greisen systems.

The thermally stable, conductive, strong, lightweight metal, stronger than steel and lighter than aluminium, is an essential material in the aerospace, telecommunications, information technology, defence, medical, and nuclear industries.

Lithium Plus Minerals Ltd have identified beryllium in the drilling of pegmatites at the Spotted Wonder prospect in the Aileron Province, with near-surface intersections including 11 m @ 0.11% BeO. In 2024, URO Corp's exploration at the Beryllia Project in the southern Southwark Granite Suite of the Aileron Province has identified beryllium-rich rock outcrops associated with fluorspar-rich granites, and fluorite-rich veins with exploration ongoing.



Fluorine

The Oorabra reefs in the north-eastern Aileron Province comprise fluorite-bearing quartz veins up to 13 km long and up to 7 m wide. A historic resource of 85 000 t of fluorite was defined at three reefs in the 1970s. Tivan Ltd commenced exploration in the Oorabra reefs in late 2024, and announced significant high-grade fluorite grades from multiple fluorite rich reefs. In late 2025, Tivan undertook an extensive drilling program to establish the extent of the fluorite veins and assess the potential for an economic deposit. Early results include 20.3 m at 18.9% CaF_2 from 24 m, and 15.5 m at 22.4% CaF_2 from 56.5 m. The project is subject to a Memorandum of Understanding with Sumitomo Corporation to outline a potential development pathway.



Gallium

The demand for gallium is forecast to rise as a critical component for semiconductors, electronics, and LEDs. Anomalous gallium has been associated with Barkly Rare Earth Ltd's Barkly REE–V deposit. Further testwork in 2026, will investigate the distribution and continuity of gallium through the deposit. Kingsland Minerals Ltd have also announced the presence of elevated gallium as a potential by-product at the Leliyn graphite discovery near Pine Creek, with intersections up to 285 m @ 23.7 ppm Ga_2O_3. Metallurgical testwork is underway. Gallium may also occur associated with zinc deposits in the McArthur Basin.



Germanium

Germanium is known to occur as a by-product in zinc deposits, with potential to occur associated with zinc in the McArthur Basin.



High Purity Alumina

Enova Mining Ltd have production of high purity alumina from saprolite and clays as a by-product of processing at the Charley Creek rare earths project.



Niobium

Lithium-bearing pegmatites in the Northern Territory locally have high values of niobium, with the potential for economically significant deposits to occur. In 2025, New Frontier Minerals Ltd announced rock chip samples with high-grade niobium, dysprosium and terbium in outcropping pegmatites from the Cusp prospect in the Harts Range in central Australia. Results of drilling of this prospect are pending.

High-grade niobium resources (with rare earths) have been discovered by WA1 Ltd and Encounter Resources Ltd hosted by carbonatites of the Aileron Province, just across the border in Western Australia, with high potential extending into western regions of the NT.

78 Pt

Platinum Group Elements (PGE)

The Coronation Hill deposit (now inaccessible) contains 5.7 t palladium and 1.7 t platinum. Other PGE-gold occurrences occur in the Pine Creek area. PGEs have also been intersected in drilling of mafic intrusions in the Aileron Province in central Australia, including indications of anomalous PGEs in the vicinity of Oonagalabi prospects in the Aileron Province, currently being explored by Litchfield Minerals Ltd.

21 Sc

Scandium

Enova Mining Ltd have reported elevated scandium oxide from saprolite and clays as part of the Charley Creek rare earths project. Scandium may potentially be associated with other weathered regolith hosted rare earth deposits. No scandium resource has been announced to date.

34 Se

Selenium

An estimated 220 t of selenium was produced as a by-product of historic gold and copper mining at Tennant Creek. It's presence as bismuth-bearing selenide minerals has been recorded at Juno and Golden Forty, often in close association with gold. Bismuthinite from the Peko and Orlando deposits was found to contain up to 7% selenium. A selenium-bearing mineral has also been noted to occur with chalcopyrite. Selenium is thought to have been deposited in the second mineralisation stage, with gold and bismuth. The association with bismuth and gold lead it to being a potential by-product of future mining of iron oxide copper-gold deposits throughout the Warramunga Province. Selenium has also been reported associated with gold in the Pine Creek Orogen, and with platinum and palladium-bearing minerals associated with gold and selenides at Coronation Hill. It occurs as a range of PGE and Bi-Pd-Sb selenide minerals.

14 Si

Silicon

Territory Sands Pty Ltd are actively exploring for high purity silica sand in the Sturt Plateau region, adjacent to the railway between Katherine and Tennant Creek. In 2024, Australasian Metals announced a maiden Exploration Target for the Dingo Hole project in the Georgina Basin, estimating 10.4–42.6 Mt of quartz at a post-leach SiO_2 grade of 99.37–99.85%. There is also untested potential for high purity silica in quartz blows and veins in metamorphic terranes in the NT, including the Pine Creek Orogen and Aileron Province.

73 Ta

Tantalum

The Territory has a history of tantalum (and tin) mining throughout the outcropping pegmatite fields of the Pine Creek Orogen and northern Aileron Province. Significant exploration potential exist in these regions and undercover, while production is possible in association with lithium from pegmatite fields in the Bynoe region.

52 Te

Tellurium

Elevated levels of tellurium (100–1000 times average crustal abundance) has been identified in tailings and other waste from historical mining in the Pine Creek region including in work undertaken with the University of Queensland and NTGS.

50 Sn

Tin

The Territory has a history of tin mining in the Pine Creek Orogen and northern Aileron Province. The Mount Wells project in the Pine Creek Orogen includes an historic Inferred Mineral Resource of 3000 t of contained tin, with further exploration potential. URO Corp recently discovered highly anomalous tin and other critical minerals in greisens associated with the Southwark Granites in the northwest Aileron Province.

There are no current known resources or exploration for arsenic, chromium, hafnium, indium or rhenium in the Northern Territory, but the Territory remains largely unexplored for these commodities.

Global critical minerals

NT Critical Minerals (endowment)	AUSTRALIA - Critical minerals list 2024	US - USGS Critical minerals list 2025	UK - Critical minerals list 2024	EU - Critical raw materials 2023	JAPAN - Rare metals 2020 (35 minerals)	INDIA - Critical minerals list 2023	KOREA - Critcal minerals list 2023	INDONESIA - Critical minerals list 2023	CANADA - Critical minerals list 2023
Aluminium / bauxite	Aluminium	Aluminium[1]	Aluminium	Bauxite (Aluminium)			Aluminum	Aluminum	Aluminium
Antimony	Antimony	Antimony	Antimony	Antimony	Antimony	Antimony	Antimony	Antimony	Antimony
	Arsenic	Arsenic		Arsenic					
		Barite		Baryte	Barium			Barium	
Beryllium	Beryllium	Beryllium		Beryllium	Beryllium	Beryllium		Beryllium	
Bismuth	Bismuth	Bismuth	Bismuth	Bismuth	Bismuth	Bismuth	Bismuth	Bismuth	Bismuth
		Boron	Borates	Boron/ Borate	Boron			Boron	
						Cadmium		Cadmium	
								Calcium	
					Carbon (Atmospheric)				
		Cesium			Cesium				Cesium
	Chromium	Chromium			Chromium		Chromium	Chromium	Chromium
		Metallurgical Coal		Coking Coal					
Cobalt	Cobalt	Cobalt[1]	Cobalt	Cobalt	Cobalt	Cobalt	Cobalt	Cobalt	Cobalt
Copper	Copper	Copper[1]		Copper		Copper	Copper	Copper	Copper
		Electrical steel							
				Feldspar				Feldspar	
Fluorine	Fluorine	Fluorspar, Fluorine[1]		Fluorspar	Fluorine			Fluorspar	Fluorspar
Gallium	Gallium	Gallium[1]	Gallium	Gallium	Gallium	Gallium	Gallium	Gallium	Gallium
Germanium	Germanium	Germanium	Germanium	Germanium	Germanium	Germanium		Germanium	Germanium
Graphite	Graphite	Graphite[1]	Graphite	Graphite	Graphite/ Carbon	Graphite	Graphite	Graphite	Graphite
	Hafnium	Hafnium	Hafnium	Hafnium	Hafnium	Hafnium		Hafnium	
			Helium	Helium					Helium
High-purity Alumina	High-purity Alumina								
	Indium	Indium	Indium		Indium	Indium	Indium	Indium	Indium
		Iridium[1]	Iridium						
Iron			Iron					Iron	
Lead		Lead					Lead	Lead/Galena	
Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Magnesium	Magnesium	Magnesium[1]	Magnesium/ Magnesite	Magnesium	Magnesium		Magnesium	Magnesium	Magnesium
Manganese	Manganese	Manganese	Manganese	Manganese	Manganese		Manganese	Manganese	Manganese
								Mercury	
Molybdenum	Molybdenum				Molybdenum	Molybdenum	Molybdenum	Molybdenum	Molybdenum

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KEY

NT emerging critical mineral	Australian Strategic material (2023)	Newly listed in 2026	US Department of Energy Strategic materials (2023)	[1] also on US Strategic Materials list

NT Critical Minerals (endowment)	AUSTRALIA - Critical minerals list 2024	US - USGS Critical minerals list 2025	UK - Critical minerals list 2024	EU - Critical raw materials 2023	JAPAN - Rare metals 2020 (35 minerals)	INDIA - Critical minerals list 2023	KOREA - Critcal minerals list 2023	INDONESIA - Critical minerals list 2023	CANADA - Critical minerals list 2023
Nickel	Nickel	Nickel[1]	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel
Niobium	Niobium	Niobium	Niobium	Niobium	Niobium	Niobium	Niobium	Niobium	Niobium
Phosphate/ Phosphorous	Phosphorus	Phosphate	Phosphorus	Phosphorus/ Phosphate Rock		Phosphorus		Phosphorus	
		Potash				Potash		Potassium	Potash
Platinum-group elements	Platinum-group elements	Platinum Group[1]	Platinum	Platinum group metals	Platinum group metals	PGE	Platinum, Palladium	Platinum, Palladium	Platinum group metals
Rare earth elements	Rare earth elements	Rare earth elements (includes Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Tb, Yb, Y)[1]	Rare earth elements	Rare earth elements	Rare earth elements	Rare earth elements	Rare earth elements (Nd, Dy, Tb, Ce, La)	Rare Earth Metals	Rare earth elements
	Rhenium	Rhenium	Rhenium		Rhenium	Rhenium			
		Rhodium	Rhodium						
		Rubidium			Rubidium				
		Ruthenium	Ruthenium					Ruthenium	
Scandium	Scandium	Scandium		Scandium				Scandium	Scandium
Selenium	Selenium				Selenium	Selenium	Selenium	Selenium	
Silicon	Silicon	Silicon[1]	Silicon	Silicon metal	Silicon	Silicon	Silicon	Silica	
Silver		Silver							
			Sodium						
				Strontium	Strontium	Strontium	Strontium	Strontium	
								Sulphur	
Tantalum	Tantalum	Tantalum	Tantalum	Tantalum	Tantalum	Tantalum	Tantalum	Tantalum	Tantalum
Tellurium	Tellurium	Tellurium	Tellurium		Tellurium	Tellurium		Tellurium	Tellurium
		Terbium							
		Thallium			Thallium				
								Thorium	
Tin	Tin	Tin	Tin			Tin	Tin	Tin	Tin
Titanium	Titanium	Titanium	Titanium	Titanium metal	Titanium	Titanium	Titanium	Titanium	Titanium
Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten
Uranium		Uranium			Uranium				Uranium
Vanadium	Vanadium	Vanadium	Vanadium	Vanadium	Vanadium	Vanadium	Vanadium	Vanadium	Vanadium
Zinc	Zinc	Zinc	Zinc				Zinc	Zinc	Zinc
Zirconium	Zirconium	Zirconium			Zirconium	Zirconium	Zirconium	Zirconium	

Scan here for reference list

For more information,
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NORTHERN TERRITORY GOVERNMENT