

- The Northern Territory is rapidly emerging as a new player in the critical minerals supply chain.
- Finnis lithium mine now in production with first shipment of spodumene concentrate exported in 2023.
- Nolans rare earths project plans to produce NdPr oxide, cerium hydroxide and mixed middle-heavy rare earth carbonate products. Mining approvals are in place.
- Molyhil tungsten-molybdenum project enhanced by new tungsten resources at Samarkand and White Violet.
- High greenfields nickel-cobalt potential in the Aileron Province in central Australia.
- Significant emerging graphite potential at Leliyn prospect, Pine Creek Orogen.

Care and maintenance

Geological Province	Name	Resource	Company
Pine Creek Orogen	Finniss Operations (Grants)	48.2 Mt @ 1.26% Li ₂ O	Core Lithium Ltd
	Browns Oxide	9.4 Mt @ 0.82% Cu, 0.14% Co, 0.14% Ni	Northern Territories Resources Pty Ltd

Developing projects

Approvals in place

Geological Province	Name	Resource	Company
Aileron Province	Nolans	56 Mt @ 2.6% REO, 11% P ₂ O ₅	Arafura Rare Earths Ltd
Pine Creek Orogen	BP33	10.5 Mt @ 1.53% Li ₂ O	Core Lithium Ltd

In approvals process

Geological Province	Name	Resource	Company
Aileron Province	Molyhil	4.65 Mt @ 0.26% WO ₃ , 0.09% Mo	Investigator Resources Ltd
Warramunga Province	Rover 1	5.58 Mt @ 1.76 g/t Au, 1.49% Cu, 0.07% Co, 23.2% magnetite	Castile Resources Ltd

Under feasibility

Geological Province	Name	Resource	Company
Aileron Province	Charley Creek	805 Mt @ 0.029% REO and 0.05% Zircon	Enova Mining Ltd
Ngalia Basin	Bigrlyi	6.32 Mt @ 0.153% U ₃ O ₈ , 0.096% V ₂ O ₅	Energy Metals Ltd
Pine Creek Orogen	Huandot	9.1 Mt @ 44.3% MgO	Thesally Resources Pty Ltd
	Winchester	16.6 Mt @ 43.2% MgO	Korab Resources Ltd

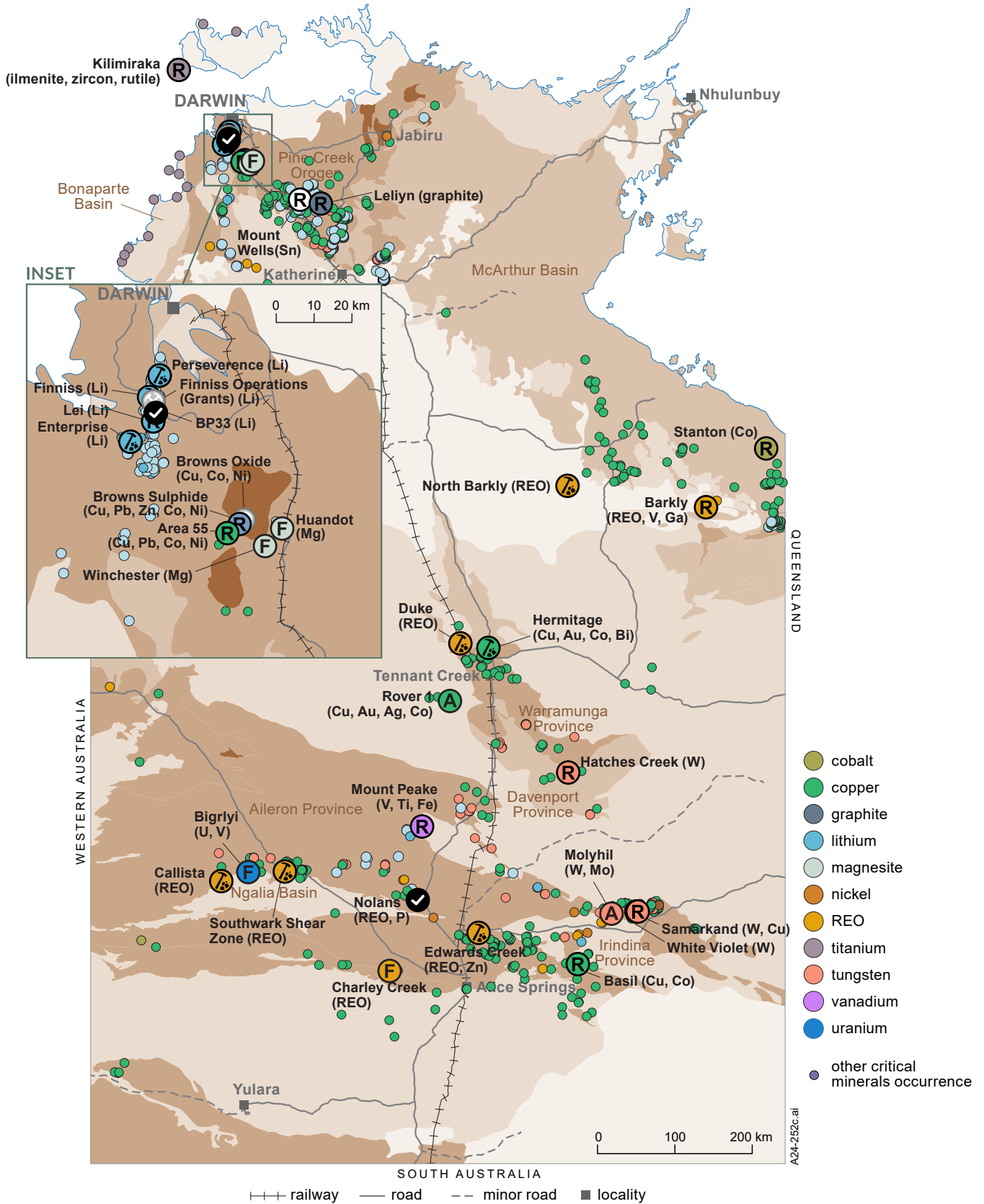
JORC resource

Geological Province	Name	Resource	Company
Aileron Province	Mount Peake	160.4 Mt @ 0.28% V ₂ O ₅ , 5.3% TiO ₂ , 23% Fe	Tivan Ltd
	Samarkand	0.245 Mt @ 0.19% WO ₃ , 0.13% Cu	Thor Energy PLC
	White Violet	0.495 Mt @ 0.22% WO ₃ , 0.06% Cu	
Carpentaria Basin	Barkly	40 Mt @ 0.21% TREO and 200 Mt @ 0.12% V ₂ O ₅ , 30 ppm Ga	Transition Minerals Ltd
Davenport Province	Hatches Creek (stockpiles)	0.225 Mt @ 0.58% WO ₃	Tungsten Mining NL
Iridina Province	Basil	26.5 Mt @ 0.57% Cu, 0.05% Co	Typhon Minerals Pty Ltd
McArthur Basin	Stanton	0.94 Mt @ 0.13% Co, 0.12% Cu, 0.061% Ni	NT Minerals Ltd
Money Shoal Basin	Kilimiraka	56.2 Mt @ 1.6% Heavy mineral sands (made up of 11.2% zircon, 60.9% titanium bearing minerals)	Tiwi Resources Pty Ltd
	Area 55	8.7 Mt @ 0.51% Cu, 0.13% Co, 0.15% Ni	Northern Territories Resources Pty Ltd
	Browns Sulfide	45.1 Mt @ 0.35% Cu, 3.74% Pb, 0.73% Zn, 0.09% Co, 0.07% Ni	
Pine Creek Orogen	Mount Wells	410,000 t @ 0.74% Sn, 0.21% Cu	Outback Metals Ltd
	Lei	4.09 Mt @ 1.43% Li ₂ O	Lithium Plus Minerals Ltd
	Leliyn	194.6 Mt @ 7.3% total graphitic carbon	Kingsland Minerals Ltd

Exploration results

Geological Province	Name	Exploration Results	Company
Aileron Province	Callista	18 m @ 0.45% TREO	GSW Resources Pty Ltd
	Southwark Shear Zone	6 m @ 0.53% TREO	URO Corp Ltd
Carpentaria Basin	North Barkly	3 m @ 1890 ppm TREO	Green Critical Minerals Ltd
Iridina Province	Bruce	2 m @ 0.4% TREO	MetalsGrove Mining Ltd
Ngalia Basin	Bigrlyi	Anomaly 4: 10.6 m @ 0.86% U ₃ O ₈ Anomaly 2: 5.1 m @ 0.45% U ₃ O ₈	Energy Metals Ltd
	Enterprise	5 m @ 1.13% Li ₂ O	Charger Metals Ltd
Pine Creek Orogen	Finniss	BP33: 90.17 @ 1.80% Li ₂ O Blackbeard: 63 m @ 1.67% Li ₂ O Ah Hoy: 40 m @ 1.42% Li ₂ O Seadog: 8 m @ 1.3% Li ₂ O	Core Lithium Ltd
	Perseverance	19 m @ 1.58% Li ₂ O	Lithium Plus Minerals Ltd
	Lei	50 m @ 1.83% Li ₂ O	
	Leliyn	206 m @ 10% total graphitic carbon, 266 m @ 15.0 g/t Ga	Kingsland Minerals Ltd
	Duke	42 m @ 0.08% TREO	Heavy Rare Earths Ltd
Warramunga Province	Hermitage	20 m @ 1.5% Cu, 0.6 g/t Au, 0.7% Bi, 9.6 g/t Ag, 0.05% Co, 11 m @ 4.1 g/t Au	Emmerson Resources Ltd

Critical Minerals in Australia's Northern Territory



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