CRITICAL MINERALS
PROJECTS IN
AUSTRALIA
Acknowledgment

Austrade would like to acknowledge Geoscience Australia for its enormous contribution to this report.

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The following table sets out examples of current critical mineral projects (producing, under construction and in exploration).

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<th>State/Territory</th>
<th>Critical Mineral(s)</th>
<th>Project Name</th>
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<tr>
<td>NSW</td>
<td>Antimony</td>
<td>Clarke’s Gully Project</td>
<td>Hillgrove Mines Pty Ltd</td>
<td>Containing (proved &amp; probable) 2.195 Mt @ 3.8 g/t Au, 2% Sb; (global resource) 6.25 Mt @ 0.8 g/t Au, 360 g/t W and 1.6% Sb.</td>
<td>Hillgrove Resources Limited (ASX: HGO)</td>
<td>Operational – Currently in care and maintenance</td>
<td><a href="http://www.hillgroveresources.com.au">www.hillgroveresources.com.au</a></td>
</tr>
<tr>
<td>NSW</td>
<td>Antimony</td>
<td>Bielsdown Project</td>
<td>Anchor Resources Limited</td>
<td>Total estimated resource (at a cut-off of 1%) of 610 000 t @ 2.56% Sb for 15 600 t of contained Sb.</td>
<td>Anchor Resources Limited (ASX:AHR)</td>
<td>Exploration</td>
<td><a href="http://www.anchorresources.com">www.anchorresources.com</a></td>
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<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Thackaringa (Big Hill, Pyrite Hill &amp; Railway)</td>
<td>Cobalt Blue</td>
<td>Total global resource (indicated &amp; inferred) of 72 Mt @ 852 ppm Co (500 ppm Co cut-off).</td>
<td>Cobalt Blue Holdings Ltd (ASX:COB)</td>
<td>Advanced Exploration</td>
<td>Intend to undertake on-site processing in Broken Hill. <a href="http://www.cobaltblueholdings.com">www.cobaltblueholdings.com</a></td>
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<td>NSW</td>
<td>Cobalt</td>
<td>Owendale</td>
<td>Platina Resources</td>
<td>0.08% Co cut-off, the Resource comprises a Measured Mineral Resource of 4.0 Mt @ 0.14% Co, an Indicated Mineral Resource of 6.2 Mt @ 0.12% Co and an Inferred Mineral Resource 6.7 Mt @ 0.11% Co, equating to a Total Mineral Resource of 16.9 Mt @ 0.12% Co.</td>
<td>Platina Resources Ltd (ASX:PGM)</td>
<td>Advanced Exploration</td>
<td><a href="http://www.platinaresources.com.au">www.platinaresources.com.au</a></td>
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<td>NSW</td>
<td>Cobalt</td>
<td>NICO Young Nickel Cobalt Project</td>
<td>Jervois Mining</td>
<td>Inferred Mineral Resource: 167.8 Mt @ 0.59% Ni, 0.06% Co.</td>
<td>Jervois Mining Ltd (ASX:JRV)</td>
<td>Exploration</td>
<td><a href="http://www.jervoismining.com.au">www.jervoismining.com.au</a></td>
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<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Mount Gilmore Copper-Cobalt-Gold project</td>
<td>Corazon Mining</td>
<td></td>
<td>Corazon Mining Limited (ASX:CZN)</td>
<td>Exploration</td>
<td>Drilling campaign underway to determine resource quantity. <a href="http://www.corazon.com.au">www.corazon.com.au</a></td>
</tr>
<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Husky and Malmumite</td>
<td>Victory Mines</td>
<td></td>
<td>Victory Mines Limited (ASX:VIC)</td>
<td>Early Exploration</td>
<td><a href="http://www.victorymines.com">www.victorymines.com</a></td>
</tr>
<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Sunrise project</td>
<td>CleanTeQ Resources</td>
<td>Cobalt/ Nickel mineral resource estimate at 0.06% cobalt cut-off, comprising 40 Mt @ 0.15% Co, 0.75% Ni (Measured), 47 Mt @ 0.12% Co, 0.55% Ni (Indicated) and 14 Mt @ 0.11% Co, 0.24% Ni (Inferred), giving contained metal of 132,000 t Co, 593,064 t Ni.</td>
<td>CleanTeQ Holdings Limited (ASX/TSX:CLQ)</td>
<td>Advanced Exploration</td>
<td>Intend to undertake on-site processing in Nyngan. <a href="http://www.cleanteq.com">www.cleanteq.com</a></td>
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<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Bungonia Cobalt Project</td>
<td>Cazaly Resources</td>
<td></td>
<td>Cazaly Resources Limited (ASX:CAZ)</td>
<td>Exploration</td>
<td><a href="http://www.cazalyresources.com.au">www.cazalyresources.com.au</a></td>
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<td>NSW</td>
<td>Cobalt</td>
<td>Collerina Nickel-Cobalt Project</td>
<td>Collerina Cobalt Ltd</td>
<td>Mineral resource estimate at 0.7% Ni: 2.2 Mt @ 0.98% Ni, 0.04% Co (Indicated) and 15.7 Mt @ 0.88% Ni, 0.06% Co (Inferred).</td>
<td>Alpha HPA Limited (ASX:A4N)</td>
<td>Exploration</td>
<td><a href="http://www.collerinacobalt.com.au">www.collerinacobalt.com.au</a></td>
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<tr>
<td>NSW</td>
<td>Cobalt</td>
<td>Bungonia Cobalt Project</td>
<td>Cazaly Resources</td>
<td></td>
<td>Cazaly Resources Limited (ASX:CAZ)</td>
<td>Exploration</td>
<td><a href="http://www.cazalyresources.com.au">www.cazalyresources.com.au</a></td>
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<tr>
<td>NSW</td>
<td>Hafnium, Zirconium, Niobium, Tantalum, Yttrium and Rare-Earth Elements</td>
<td>Dubbo project</td>
<td>Alkane Resources</td>
<td>Expected to produce approximately 16 374 tpa zirconium (zirconia units), 50-200 tpa hafnium (hafnia units), 1967 tpa niobium and 6664 tpa rare earth oxides.</td>
<td>Alkane Resources Ltd (ASX:ALK)</td>
<td>Near production</td>
<td>Intend to undertake on-site processing in Dubbo. <a href="http://www.alkane.com.au">www.alkane.com.au</a></td>
</tr>
<tr>
<td>NSW</td>
<td>Heavy Mineral Sands (Ilmenite, Leucoxene, Zircon and Rutile)</td>
<td>Atlas / Campaspe</td>
<td>Cristal Mining</td>
<td>6.5 Mt of contained heavy mineral.</td>
<td>Cristal Mining Australia Limited (National Titanium Dioxide Company Limited), which is owned by 79% Tasnee (listed Saudi joint-stock company), 20% Gulf Investment Corporation and 1% Dr Talal A. Al-Shair. The company is subject to a takeover bid from Tronox in the USA.</td>
<td>Near Production</td>
<td>Active processing site in Broken Hill. <a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
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<tr>
<td>NSW</td>
<td>Heavy Mineral Sands (Rutile, Zircon and Ilmenite)</td>
<td>West Balranald Project</td>
<td>Iluka Resources</td>
<td>Measured: 11,929 kt @ 31.9% HM; Indicated: 19,874 kt @ 35.1% HM and Inferred: 4,477 kt @ 26.5% HM; Insite HM: 11,965 kt; Assemblage: 12% rutile, 11% zircon, 63% ilmenite.</td>
<td>Iluka Resources Limited (ASX:ILU)</td>
<td>Near Production</td>
<td>Active processing facility in Victoria. <a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>NSW</td>
<td>Heavy Mineral Sands (Titanium, Zirconium)</td>
<td>Gingko and Snapper Mine</td>
<td>Cristal Mining</td>
<td>Ginkgo mineral resources: 48.9 Mt @ 2% HM (Measured) and 37 Mt @ 2.1% HM (Indicated); Insite resource of 1057 kt HM and assemblage of 14% rutile, 11% zircon, 53% ilmenite.</td>
<td>Cristal Mining Australia Limited (National Titanium Dioxide Company Limited), which is owned by 79% Tasnee (listed Saudi joint-stock company), 20% Gulf Investment Corporation and 1% Dr Talal A. Al-Shair. The company is subject to a takeover bid from Tronox in the USA.</td>
<td>Operational</td>
<td>Active processing site in Broken Hill. <a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
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<tr>
<td>NSW</td>
<td>Heavy Mineral Sands (Zirconium, Titanium and Thorium)</td>
<td>Murray Basin Prospecting</td>
<td>Broken Hill Prospecting</td>
<td>Estimation of Inferred resources of 113 Mt @ 1.8% HM at a cut-off of 1% HM (2017).</td>
<td>Broken Hill Prospecting Limited (ASX:BPL)</td>
<td>Exploration</td>
<td><a href="http://www.bhpl.net.au">www.bhpl.net.au</a></td>
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<tr>
<td>NSW</td>
<td>Platinum Group Metals</td>
<td>Owendale</td>
<td>Platina Resources</td>
<td>Indicated and Inferred Resources totalling 12.7 Mt @ 0.7 g/t Pt for its Owendale North, Cincinnati and Milverton deposits at Fifield.</td>
<td>Platina Resources Ltd (ASX:PGM)</td>
<td>Early Exploration</td>
<td><a href="http://www.platinaresources.com.au">www.platinaresources.com.au</a></td>
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<td>NSW</td>
<td>Scandium</td>
<td>Nyngan Scandium Project</td>
<td>Scandium International</td>
<td>Resource: 11.23 Mt @ 225 ppm Sc (Indicated) and 5.69 Mt @ 256 ppm Sc (Measured), with in-site resource of 3983 t Sc. Reserve: 1.43 million tonnes, grading 409ppm Sc (established on part of the resource).</td>
<td>Scandium International Mining Corp. (TSX:SCY)</td>
<td>Advanced Exploration</td>
<td>Intend to undertake on-site processing in Nyngan.</td>
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<tr>
<td>NSW</td>
<td>Scandium</td>
<td>Sunrise Project</td>
<td>CleanTeq International</td>
<td>Mineral Resource estimated at 300ppm Sc cut-off: 12.32 Mt @ 420 ppm Sc (Measured + Indicated) and 33.34 Mt @ 421 ppm Sc (Inferred), with in-site resource of 19 022 t Sc and 29 410 scandium oxide.</td>
<td>CleanTeQ Holdings Limited (ASX/TSX:CLQ)</td>
<td>Advanced Exploration</td>
<td>Intend to undertake on-site processing in Nyngan. <a href="http://www.cleanteq.com">www.cleanteq.com</a></td>
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<tr>
<td>NSW</td>
<td>Scandium</td>
<td>Owendale</td>
<td>Platina Resources</td>
<td>At a cut-off of 300 ppm Sc, the scandium Mineral Resource is 35.6 Mt @ 405 ppm Sc, containing a total in-situ content of 22 000 tonnes of scandia.</td>
<td>Platina Resources Ltd (ASX:PGM)</td>
<td>Exploration</td>
<td><a href="http://www.platinaresources.com.au">www.platinaresources.com.au</a></td>
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<tr>
<td>NSW</td>
<td>Scandium</td>
<td>Flemington</td>
<td>Australian Mines</td>
<td>Maiden mineral resource: 2.5 Mt @ 403 ppm Sc (Measured) and 0.2 Mt @ 408 ppm Sc (Indicated).</td>
<td>Australian Mines Limited (ASX:AUZ)</td>
<td>Exploration</td>
<td><a href="http://www.australianmines.com.au">www.australianmines.com.au</a></td>
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<td>State/Territory</td>
<td>Critical Mineral(s)</td>
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<tr>
<td>NSW</td>
<td>Zirconium, Yttrium, Rare-Earth Elements, Niobium, Thorium</td>
<td>Nurraburra</td>
<td>Paradigm Resources</td>
<td>The last published resource for Nurraburra was by Capital Mining in 2013 comprising 73 Mt @ 1250 g/t ZrO2, 146 g/t Y2O3, 327 g/t REO, 45 g/t HfO2, 126 g/t Nb2O5 and 61 g/t ThO2.</td>
<td>Paradigm Resources is a joint venture between the New South Wales Aboriginal Land Council (NSWALC) and the Indigenous Energy Group</td>
<td>Early Exploration</td>
<td><a href="http://www.paradigmresources.com.au">www.paradigmresources.com.au</a></td>
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<td>NT</td>
<td>Cobalt</td>
<td>Wollogorang (Stanton)</td>
<td>Northern Cobalt</td>
<td>942 000 t @ 0.13% Co, 0.06% Ni, 0.12% Cu.</td>
<td>ASX listed (N27)</td>
<td>Exploring</td>
<td><a href="http://www.northerncobalt.com.au">www.northerncobalt.com.au</a></td>
</tr>
<tr>
<td>NT</td>
<td>Cobalt</td>
<td>Browns Oxide</td>
<td>Northern Territory Resources Pty Ltd</td>
<td>9.4 Mt @ 0.14% Co, 0.82% Cu, 0.14% Ni.</td>
<td>Privately held</td>
<td>In development</td>
<td></td>
</tr>
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<td>NT</td>
<td>Helium</td>
<td>Darwin</td>
<td>BOC/Linde Group</td>
<td>N/a.</td>
<td>Frankfurt &amp; NY stock exchange listed</td>
<td>Producing</td>
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<td>NT</td>
<td>Lithium</td>
<td>Finniss</td>
<td>Core Lithium</td>
<td>7.13 Mt @ 1.4% Li2O.</td>
<td>ASX listed (CXO)</td>
<td>In development</td>
<td>Company hopes for first production from Finniss in late 2019. <a href="http://www.corelithium.com.au">www.corelithium.com.au</a></td>
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<tr>
<td>NT</td>
<td>Lithium</td>
<td>Bynoe (Lei)</td>
<td>Lithium Plus Pty Ltd</td>
<td>Not yet announced.</td>
<td>Privately held</td>
<td>Exploring</td>
<td></td>
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<tr>
<td>NT</td>
<td>Lithium</td>
<td>Bynoe</td>
<td>Lithium Australia</td>
<td>Not yet announced.</td>
<td>ASX listed (LIT)</td>
<td>Exploring</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
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<tr>
<td>NT</td>
<td>Lithium</td>
<td>Arunta (Barrow Creek, Utopia, Spotted Wonder)</td>
<td>Lithium Plus Pty Ltd</td>
<td>Not yet announced.</td>
<td>Privately held</td>
<td>Exploring</td>
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<td>NT</td>
<td>Manganese</td>
<td>Groote Eylandt</td>
<td>South32</td>
<td>173 Mt @ 42.2% Mn.</td>
<td>ASX listed (S32)</td>
<td>Producing</td>
<td><a href="http://www.south32.net">www.south32.net</a></td>
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<tr>
<td>NT</td>
<td>Manganese</td>
<td>Bootu Creek</td>
<td>OM Holdings</td>
<td>9.95 Mt @ 22.3% Mn.</td>
<td>ASX listed (OMH)</td>
<td>Producing</td>
<td><a href="http://www.omholdingsltd.com">www.omholdingsltd.com</a></td>
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<tr>
<td>NT</td>
<td>Manganese</td>
<td>South Rosie Creek</td>
<td>MMG</td>
<td>5 Mt @ 25% Mn (non-JORC compliant).</td>
<td>ASX listed (MMG)</td>
<td>Exploring</td>
<td><a href="http://www.mmg.com">www.mmg.com</a></td>
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<td>NT</td>
<td>Rare-Earth Elements (Nd, Pr)</td>
<td>Nolans Bore</td>
<td>Arafura Resources</td>
<td>56 Mt @ 2.6% REO, 11% P2O5, 0.02% U3O8.</td>
<td>ASX listed (ARU)</td>
<td>In development</td>
<td><a href="http://www.arultd.com">www.arultd.com</a></td>
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<tr>
<td>NT</td>
<td>Rare-Earth Elements</td>
<td>Charley Creek</td>
<td>Crossland Strategic Metals</td>
<td>805 Mt @ 0.029% REO.</td>
<td>ASX listed (CUX)</td>
<td>Exploring</td>
<td><a href="http://www.crosslandstrategic.com">www.crosslandstrategic.com</a></td>
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<td>NT</td>
<td>Titanium</td>
<td>Mt Peake</td>
<td>TNG</td>
<td>160.4 Mt @ 0.28% V2O5, 5.3% TiO2, 23% Fe.</td>
<td>ASX listed (TNG)</td>
<td>In development</td>
<td>Plans to process in NT. <a href="http://www.tngltd.com.au">www.tngltd.com.au</a></td>
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<tr>
<td>NT</td>
<td>Tungsten</td>
<td>Molyhil</td>
<td>Thor Mining</td>
<td>4.71 Mt @ 0.28% WO3, 0.13% MoS2, 18.1% Fe.</td>
<td>ASX listed (THR)</td>
<td>In development</td>
<td><a href="http://www.thormining.com">www.thormining.com</a></td>
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<tr>
<td>NT</td>
<td>Tungsten</td>
<td>Hatches Creek</td>
<td>GWR Group</td>
<td>225 066 t @ 0.58% WO3 (from stockpiles) (NB: Larger in-ground resource estimate pending).</td>
<td>ASX listed (GWR)</td>
<td>Exploring</td>
<td><a href="http://www.gwrgroup.com.au">www.gwrgroup.com.au</a></td>
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<tr>
<td>NT</td>
<td>Tungsten</td>
<td>Nipper</td>
<td>Thundelarra</td>
<td>Not yet announced.</td>
<td>ASX listed (THX)</td>
<td>Exploring</td>
<td><a href="http://www.thundelarra.com">www.thundelarra.com</a></td>
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<td>NT</td>
<td>Zircon (Zirconium and Hafnium)</td>
<td>Kilimiraka</td>
<td>MZI Resources</td>
<td>5.62 Mt @ 1.6% heavy mineral sands (non 2012-JORC compliant).</td>
<td>ASX listed (MZI)</td>
<td>Exploring</td>
<td><a href="http://www.mzi.com.au">www.mzi.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt (&amp; Gold and Copper)</td>
<td>Mt Freda</td>
<td>Ausmex Mining Group Limited</td>
<td>Reported grades in recent drilling for resource definition of 5 m @ 7.53 g/t Au and 483 ppm Co, and 7 m @ 3.32 g/t Au with 3 m @ 522 ppm Co.</td>
<td>Ausmex Mining Group Limited (Optionee) 100% (ASX:AMG); Young Australian Mines Ltd. (Optionor)</td>
<td>Reserves Development</td>
<td>Gold deposit with associated cobalt mineralisation. <a href="http://www.ausmexgroup.com.au">www.ausmexgroup.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper and Silver)</td>
<td>Capricorn Copper</td>
<td>EMR Capital Group</td>
<td>Reserves of 8.47 Mt @ 1.98% Cu with associated silver and elevated levels of Co.</td>
<td>EMR Capital Group (Venturer); Lighthouse Minerals Holdings Pty Ltd. (Venturer)</td>
<td>Operating</td>
<td><a href="http://www.capricorncopper.com">www.capricorncopper.com</a></td>
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<tr>
<td>QLD</td>
<td>Antimony (&amp; Gold)</td>
<td>Northcote</td>
<td>Bulletin Resources Limited</td>
<td>JORC Code 2004 Resource of 3 980 000 t @ 0.3% Antimony.</td>
<td>Bulletin Resources Limited (Optionee) 80% (ASX:BNR); Territory Minerals Ltd. (Optionor) 20%</td>
<td>Feasibility</td>
<td><a href="http://www.bulletinresOURCES.com">www.bulletinresOURCES.com</a></td>
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<tr>
<td>State/Territory</td>
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<td>QLD</td>
<td>Cobalt (&amp; Copper, Lead, Zinc and Silver)</td>
<td>Walford Creek</td>
<td>Aeon Metals Limited</td>
<td>Copper Lode Resource of 15.7 Mt @ 1.24% Cu, 0.98% Pb, 0.82% Zn, 33.5g/t Ag, 0.19% Co, 41.35% Py and Cobalt Peripheral Resource of 18 Mt @ 0.16% Cu, 0.85% Pb, 1.03% Zn, 21.8g/t Ag, 0.11% Co and 39.2% Py</td>
<td>Aeon Metals Limited (Owner) 100% (ASX:AML)</td>
<td>Feasibility Started</td>
<td><a href="http://www.aeonmetals.com.au">www.aeonmetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper and Gold)</td>
<td>Wee Macgregor</td>
<td>Cohiba Minerals Limited</td>
<td>JORC code 2012 Inferred Resource of 1.65 Mt @ 1.6% copper with recent drilling intersecting 10m at 1.2% copper, 0.063% cobalt, maximum cobalt is 0.1% over 2 m.</td>
<td>Cohiba Minerals Limited (Optionee) 80% (ASX:CHK); Cape Lambert Resources Limited (Optionor) 20%; Firebird Minerals Pty Ltd (Fractional)</td>
<td>Reserves Development</td>
<td><a href="http://www.cohibaminerals.com.au">www.cohibaminerals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Gold, Iron Ore, Magnetite and Silver)</td>
<td>Ernest Henry</td>
<td>Glencore</td>
<td>Total Resources at Dec 2015 (Measured and Indicated) 871 Mt @ 1.18% Cu and 0.60 g/t Au. Pyrite contains arsenic, nickel and cobalt all ranging from a few hundred ppm to a few wt.% within individual grains of pyrite.</td>
<td>Glencore (Venturer) 70% (ASX:ZGI); Evolution Mining Limited (Venturer) 30%</td>
<td>Satellite</td>
<td><a href="http://www.ernesthenrymining.com.au">www.ernesthenrymining.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt and Rhenium (&amp; Copper, Gold, Silver and Molybdenum)</td>
<td>White Range</td>
<td>Young Australian Mines Ltd.</td>
<td>Resource of 29.3 Mt @ 0.82% Cu, 0.2 ppm Au and 0.03% Co.</td>
<td>Young Australian Mines Ltd. (Owner) 100%; Ausmex Mining Group Limited (Fractional); Shanxi Donghui Coal Coking &amp; Chemicals Group Co., Ltd. (Fractional); Teck Resources Limited (Fractional)</td>
<td>Prefeasibility/Scoping</td>
<td><a href="http://www.yamines.com.au">www.yamines.com.au</a></td>
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<td>State/Territory</td>
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<td>QLD</td>
<td>Cobalt (&amp; Copper and Gold)</td>
<td>Cloncurry East</td>
<td>Magnum Mining and Exploration Limited</td>
<td>At Salebury where a JORC code 2004 Inferred Resource of 1,300,000 t @ 0.9% Cu, 0.5 g/t Au, cobalt has been intersected in drilling over up to 30 m at 0.113%. At Notlor, cobalt has been intersected in drilling over up to 46 m at 0.264%.</td>
<td>Magnum Mining and Exploration Limited (Optionee) 75% (ASX:MGU); Washington H. Soul Pattinson and Company Limited (Optionor) 25%</td>
<td>Reserves Development</td>
<td><a href="http://www.mmel.com.au">www.mmel.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Gold, Copper and Zinc)</td>
<td>Lorena</td>
<td>Malachite Resources Limited</td>
<td>At Lorena a JORC code 2004 indicated/inferred pre-mining Resource of 203,000 t @ 8.7 g/t Au was defined, unreported cobalt has been intersected in drilling.</td>
<td>Malachite Resources Limited (Venturer) 55% (ASX:MAR); Shanxi Donghui Coal Coking &amp; Chemicals Group Co., Ltd., (Venturer) 21%; Ore Processing Services Pty Ltd (Venturer) 15%; BIM Metals Pty Ltd. (Venturer) 9%; BCD Resources NL (Fractional)</td>
<td>Operating</td>
<td><a href="http://www.malachite.com.au">www.malachite.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Tungsten and Graphite (&amp; Gold, Silver, Zinc, Copper, Tin and Lead)</td>
<td>Croydon</td>
<td>Crater Gold Mining Limited</td>
<td>Drilling at Golden Gate has intersected graphite up to 56 m thick grading up to 6% carbon. Elsewhere drilling at the A1 geophysical anomaly intersected elevated tungsten values to 0.18% over 1 m.</td>
<td>Crater Gold Mining Limited (Owner) 100% (ASX:CGN)</td>
<td>Target Outline</td>
<td><a href="http://www.cratergold.com.au">www.cratergold.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Nickel)</td>
<td>Gladstone</td>
<td>Gladstone Pacific Nickel Ltd.</td>
<td>Reserves of 48.7 Mt @ 0.94% Ni &amp; 0.06% Co in lateritic nickel deposits.</td>
<td>Gladstone Pacific Nickel Ltd. (Owner) 100%</td>
<td>Feasibility</td>
<td><a href="http://www.mineralogy.com.au">www.mineralogy.com.au</a></td>
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<td>QLD</td>
<td>Cobalt and Scandium (Nickel and Iron Ore)</td>
<td>SCONI</td>
<td>Australian Mines Limited</td>
<td>Ore Reserve of 33 890 000 t @ 0.67% Ni, 0.10% Co and 42 ppm Sc (2018).</td>
<td>Australian Mines Limited (Owner) 100% (ASX:AUZ)</td>
<td>Feasibility Complete</td>
<td><a href="http://www.australianmines.com.au">www.australianmines.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (Copper, Gold and U3O8)</td>
<td>E1-Monakoff</td>
<td>Glencore</td>
<td>E1: Measured open-cut Resource of 4.6 Mt @ 0.7% copper and 0.2 g/t gold. Indicated Resource of 5.5 Mt @ 0.75% copper and 0.23 g/t gold. Inferred Resource of 0.4 Mt @ 0.9% copper and 0.3 g/t gold.  Monakoff: Indicated Resource of 2.4 Mt @ 0.95% copper and 0.3 g/t gold; Inferred Resource of 0.1 Mt @ 0.8% copper and 0.2 g/t gold.</td>
<td>Glencore (Owner) 100% (ASX:ZGI)</td>
<td>Satellite</td>
<td>Geological Survey of Queensland.</td>
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<tr>
<td>QLD</td>
<td>Cobalt (Copper and Silver)</td>
<td>Mount Oxide</td>
<td>Zhongjin Lingnan Mining (HK) Company Limited</td>
<td>2017 Resource of 9.1 Mt @ 0.23% Co associated with a copper Resource of 15.9 Mt @ 1.43% Cu.</td>
<td>Zhongjin Lingnan Mining (HK) Company Limited (Owner) 100%</td>
<td>Reserves Development</td>
<td><a href="http://www.perilya.com.au">www.perilya.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Tungsten and Lithium (Tin)</td>
<td>Khartoum</td>
<td>Jervois Mining Limited</td>
<td>Tungsten to 15.25% and Indium to 33 g/t associated with Tin mineralisation has been located at historical workings.</td>
<td>Jervois Mining Limited (Owner) 100% (ASX:JRV)</td>
<td>Target Outline</td>
<td><a href="http://www.jervoismining.com.au">www.jervoismining.com.au</a></td>
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<td>QLD</td>
<td>Cobalt, Copper, Gold, Iron Ore, U3O8 and Silver</td>
<td>Rocklands Group</td>
<td>CuDeco Limited</td>
<td>2015 reserve of 10 Mt @ 1.39% Cu, 0.24 ppm Au and 504 ppm Co.</td>
<td>CuDeco Limited (Owner) 100% (ASX:CDU); China Oceanwide International Investment Co. Limited (Fractional)</td>
<td>In care and maintenance</td>
<td><a href="http://www.cudeco.com.au">www.cudeco.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Rhenium, Cobalt, Graphite, Copper, Gold, Silver, Molybdenum and Lead</td>
<td>Mount Isa</td>
<td>Hammer Metals Limited</td>
<td>Kalman: 20 Mt @ .61% Cu, 34g/t Au, 3.7 g/t Re. Overlander: 1.8 Mt @ 1.2% Cu, 0.45% Co.</td>
<td>Hammer Metals Limited (Owner) 100% (ASX:HMX); Kabiri Resources Pty Ltd (Fractional)</td>
<td>Reserves Development</td>
<td><a href="http://www.hammermetals.com.au">www.hammermetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Vanadium (U3O8)</td>
<td>Isa</td>
<td>Paladin Energy Limited</td>
<td>Paladin hold deposits in the Isa region with a total of 98.8 Mt @ 680 ppm U3O8 with some associated copper and vanadium.</td>
<td>Paladin Energy Limited (Owner) 100% (ASX:PDN)</td>
<td>Reserves Development</td>
<td><a href="http://www.paladinenergy.com.au">www.paladinenergy.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Vanadium (U3O8 and Copper)</td>
<td>Mt Isa North</td>
<td>Paladin Energy Limited</td>
<td>Paladin hold deposits in the Isa region with a total of 98.8 Mt @ 680 ppm U3O8 with some associated copper and vanadium.</td>
<td>Paladin Energy Limited (Owner) 100% (ASX:PDN)</td>
<td>Reserves Development</td>
<td><a href="http://www.paladinenergy.com.au">www.paladinenergy.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt and Platinum (Nickel, Gold and Copper)</td>
<td>Mt Cobalt</td>
<td>Aus Tin Mining Limited</td>
<td>Resource development project that has reported drill intersections of 7 m @ 0.84% Co and 0.83% Ni and 18 m @ 0.37% Co and 0.50% Ni with individual assays of 1.2% Co and 1.26% Ni.</td>
<td>Aus Tin Mining Limited (Owner) 100% (ASX:ANW)</td>
<td>Reserves Development</td>
<td><a href="http://www.austinmining.com.au">www.austinmining.com.au</a></td>
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<td>QLD</td>
<td>Lanthanides, Rare Earth Elements, Cobalt (&amp; Copper, Gold, U3O8 and Molybdenum)</td>
<td>Mary Kathleen</td>
<td>Hammer Metals Limited</td>
<td>5.5 to 7.5 Mt (tailings) @ 2 to 4% light rare earths with residual uranium and thorium grading 0.006% to 0.012% U3O8 and 0.015% to 0.03% ThO2. Light rare earths are 50% CeO2, 35% La2O3, 11% Nd2O3, 3% Pr2O3 and 1% others. Elaine: Inferred Resource of 27.7 Mt @ 0.53% Cu. Elaine Dorothy: 27.7 Mt @ 0.32% Cu, 0.08 g/t Au with spatially associated Co, U and Th. Elaine South deposit: An Inferred Resource of 83 000t @ 280 ppm U3O8 and 3200 ppm total rare earth oxides at a cut-off of 200 ppm U3O8.</td>
<td>Hammer Metals Limited (Owner) 100% (ASX:HMX); Glencore Plc (Fractional); Global Energy Metals Corporation (Fractional)</td>
<td>Reserves Development</td>
<td>Geological Survey of Queensland.</td>
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<td>QLD</td>
<td>Indium (Copper, Tin and Silver)</td>
<td>Baal Gammon</td>
<td>Baal Gammon Copper Pty Ltd.</td>
<td>2012 resources of 2.8 Mt @ 1% Cu, 40 ppm Ag, 0.2% Sn and 39 ppm In with a high grade Inferred Resource of 826 kt @ 2.5% Cu, 96 ppm Ag, 0.4% Sn and 98 ppm In.</td>
<td>Baal Gammon Copper Pty Ltd. (Owner) 100%</td>
<td>Care and maintenance</td>
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<tr>
<td>QLD</td>
<td>Antimony, Lithium, Bismuth (&amp; Gold, U3O8, Copper, Silver, Lead, Zinc and Arsenic)</td>
<td>Chillagoe</td>
<td>Anchor Resources Limited</td>
<td>Exploration prospect that has reported bismuth grades to 0.88% and antimony grades to 0.33%.</td>
<td>Anchor Resources Limited (Owner) 100% (ASX:AHR)</td>
<td>Exploration</td>
<td><a href="http://www.anchorresources.com.au">www.anchorresources.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Nickel)</td>
<td>Lucky Break</td>
<td>Metallica Minerals Limited</td>
<td>Total Resource 1.02 Mt @ 0.8% Ni, 0.05% Co.</td>
<td>Metallica Minerals Limited (Owner) 100% (ASX:MLM)</td>
<td>Feasibility</td>
<td><a href="http://www.metallicaminerals.com.au">www.metallicaminerals.com.au</a></td>
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## Critical Minerals Projects in Australia

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<td>QLD</td>
<td>Tungsten (&amp; Molybdenum, Copper, Silver, and Gold)</td>
<td>Whitewash</td>
<td>Aeon Metals Limited</td>
<td>Indicated Resource of 185 Mt @ 0.12% Cu, 0.03% Mo, 1.6 g/t Ag. Inferred Resource of 56 Mt @ 0.11% Cu, 0.02% Mo, 1.5g/t Ag.</td>
<td>Aeon Metals Limited (Owner) 100% (ASX:AML)</td>
<td>Reserves Development</td>
<td><a href="http://www.aeonmetals.com.au">www.aeonmetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Gold and Silver)</td>
<td>Barbara</td>
<td>Washington H. Soul Pattinson and Company Limited</td>
<td>4.75 Mt @ 1.59% Cu, 0.15 ppm Au, 2.57 ppm Ag and 309 ppm Co.</td>
<td>Washington H. Soul Pattinson and Company Limited (Owner) 100%</td>
<td>Feasibility Complete</td>
<td><a href="http://www.sydacronet.com.au">www.sydacronet.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Rhenium (&amp; Molybdenum, Copper, Zinc, Lead and Silver)</td>
<td>Merlin</td>
<td>Shanxi Donghui Coal Coking &amp; Chemicals Group Co., Ltd.</td>
<td>Total Resource 6.4 Mt @ 1.5 % Mo, 26.4 ppm Re and 0.30% Cu.</td>
<td>Shanxi Donghui Coal Coking &amp; Chemicals Group Co., Ltd. (Owner) 100%</td>
<td>Feasibility</td>
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<tr>
<td>QLD</td>
<td>Lanthanides, Cobalt and Graphite (&amp; Copper, U3O8, Phosphate, Molybdenum, Silver and Gold)</td>
<td>Mt Isa</td>
<td>Pan Pacific Copper Co., Ltd.</td>
<td>Company exploring for a broad range of commodities in region known to host copper gold deposits and rare-earth deposits.</td>
<td>Pan Pacific Copper Co., Ltd. (Venturer) 51.3%; GBM Resources Limited (Venturer) 48.7%</td>
<td>Reserves Development</td>
<td><a href="http://www.gbmr.com.au">www.gbmr.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt, Rhenum, Lanthanides and Antimony (&amp; Copper, Gold, Molybdenum, U3O8, Silver, Lead, Zinc, Selenium and Tellurium)</td>
<td>Cloncurry</td>
<td>ActivEX Limited</td>
<td>Resource at Florence Bore reported as 1.6 Mt @ 0.77% Cu and 0.15% Au.</td>
<td>ActivEX Limited (Owner) 100% (ASXAIV); Au NQ Gold Pty Ltd. (Fractional)</td>
<td>Reserves Development</td>
<td><a href="http://www.activex.com.au">www.activex.com.au</a></td>
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<td>QLD</td>
<td>Cobalt (&amp; Copper and Gold)</td>
<td>Duck Creek</td>
<td>Young Australian Mines Ltd.</td>
<td>Drilling at the Duck Creek project has returned intersections of up to 36m @ 2.66% Cu, 0.23 ppm Au and 238 ppm Co.</td>
<td>Young Australian Mines Ltd. (Owner) 100%</td>
<td>Reserves Development</td>
<td><a href="http://www.yamines.com.au">www.yamines.com.au</a></td>
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<td>QLD</td>
<td>Lanthanides (&amp; U3O8)</td>
<td>Broughton Creek</td>
<td>Broughton Minerals Pty Ltd</td>
<td>No resource has been determined – exploration is still in early stages, drilling has intersected rare-earth elements up to 0.1% total REO.</td>
<td>Broughton Minerals Pty Ltd (Owner) 100%</td>
<td>Exploration</td>
<td><a href="http://www.bgwgroup.com.au">www.bgwgroup.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Gold, Zinc, Silver, Lead and Nickel)</td>
<td>Greenvale</td>
<td>Superior Resources Limited</td>
<td>Superior undertaking exploration focusing on copper, gold and zinc. Cobalt is currently unreported.</td>
<td>Superior Resources Limited (Owner) 100% (ASX:SPQ)</td>
<td>Reserves Development</td>
<td><a href="http://www.superiorresources.com.au">www.superiorresources.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Yttrium and Lanthanides</td>
<td>Korella / Korella Bore</td>
<td>Australian Venus Resources Pty Ltd</td>
<td>Inferred Resource of 7 030 000 t @ 0.93 kg/t Y2O3 overlying rock phosphate deposit of 19.3 Mt @ 19% phosphate.</td>
<td>Australian Venus Resources Pty Ltd</td>
<td>Feasibility / Reserves Development</td>
<td></td>
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<tr>
<td>QLD</td>
<td>Cobalt (and Copper, Gold, Silver, Zinc and Lead)</td>
<td>Millennium</td>
<td>Hammer Metals Limited</td>
<td>5.9 Mt @ .32% Cu, 0.11 g/t Au and 0.11% Co.</td>
<td>Hammer Metals Limited (Venturer) 75% (ASX:HMX); Global Energy Metals Corporation (Venturer) 25%</td>
<td>Reserves Development</td>
<td><a href="http://www.hammermetals.com.au">www.hammermetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Bismuth (&amp; Gold, Silver, Copper, Molybdenum, Lead and Zinc)</td>
<td>Triumph</td>
<td>Metal Bank Limited</td>
<td>At the Triumph project, Metal Bank has carried out substantial reconnaissance drilling with several high-grade gold (silver) intercepts up to 10 m at 27 g/t Au, 165 g/t silver. Unreported Bismuth has been intersected in drilling.</td>
<td>Metal Bank Limited (Owner) 100% (ASX:MBK)</td>
<td>Target Outline</td>
<td><a href="http://www.metalbank.com.au">www.metalbank.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Zinc, Lead, Silver, Copper, U3O8)</td>
<td>Nicholson</td>
<td>Superior Resources Limited</td>
<td>Superior undertaking exploration focusing on zinc and copper. Cobalt is currently unreported.</td>
<td>Superior Resources Limited (Owner) 100% (ASX:SPQ)</td>
<td>Exploration</td>
<td><a href="http://www.superiorresources.com.au">www.superiorresources.com.au</a></td>
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<td>QLD</td>
<td>Tungsten and Bismuth (&amp; Molybdenum)</td>
<td>Wolfram Camp</td>
<td>Queensland Government</td>
<td>Indicated Resource of 514 000 t @ 0.23% WO3 and Inferred Resource of 1 879 000 t @ 0.31% WO3, Ore Reserve of 375 000t @ 0.22% WO3 (Almonty Industries 2017).</td>
<td>Queensland Government</td>
<td>Care and maintenance</td>
<td>Deposit held under a restricted area to allow for rehabilitation activities by the State.</td>
</tr>
<tr>
<td>QLD</td>
<td>Zircon and Titanium (&amp; Ilmenite, Rutile and Heavy Mineral Sands)</td>
<td>North Stradbroke</td>
<td>Sibelco Australia Limited</td>
<td></td>
<td>Sibelco Australia Limited (Owner) 100%</td>
<td>Operating</td>
<td><a href="http://www.sibelco.com">www.sibelco.com</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Zircon and Titanium (&amp; Ilmenite, Rutile, Heavy Mineral Sands and Phosphate)</td>
<td>Goondicum</td>
<td>Melior Resources Inc.</td>
<td>Total resource of 22 Mt @ 9.7% Ilmenite and 1.8% apatite.</td>
<td>Melior Resources Inc. (Owner) 100%</td>
<td>Operating</td>
<td><a href="http://www.meliorresources.com">www.meliorresources.com</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Vanadium (and Molybdenum, Copper, Nickel and Zinc)</td>
<td>Richmond</td>
<td>AXF Group Pty Ltd.</td>
<td>Inferred Resource of 2 579 000 000 t @ 0.32% V2O5.</td>
<td>AXF Group Pty Ltd. (Optionee) 75%; Intermin Resources Limited (Optionor) 25%</td>
<td>Prefeasibility/ Scoping</td>
<td><a href="http://www.axfresources.com.au">www.axfresources.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Tungsten and Antimony (&amp; Tin, Copper, Gold, Iron Ore, Magnetite)</td>
<td>Mt Ruby</td>
<td>Unnamed Owner</td>
<td></td>
<td>Unnamed Owner (Owner) 100%</td>
<td>Exploration</td>
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<tr>
<td>QLD</td>
<td>Tungsten (&amp; Tin)</td>
<td>Mt Carbine</td>
<td>Speciality Metals International Limited</td>
<td>Indicated Resource of main zone hard rock of 18 Mt @ 0.14%, Indicated Resource of low-grade stockpile of 12 Mt @ 0.07% and Inferred Resource of main zone hard rock of 29.3 Mt @ 0.12% (2014).</td>
<td>Speciality Metals International Limited (Owner) 100% (ASX:SEI)</td>
<td>Advanced Exploration</td>
<td><a href="http://www.specialitymetalsintl.com.au">www.specialitymetalsintl.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Lanthanides (&amp; Gold, Copper and U3O8)</td>
<td>Mt Isa East</td>
<td>Hammer Metals Limited</td>
<td></td>
<td>Hammer Metals Limited (Venturer) 90% (ASX:HMX); Yunnan Copper Industry (Group) Co., Ltd. (Venturer) 10%</td>
<td>Exploration</td>
<td><a href="http://www.hammermetals.com.au">www.hammermetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Gold, Zinc, Silver and Lead)</td>
<td>Highlands</td>
<td>Minotaur Exploration Limited</td>
<td>Exploration targeting copper, gold mineralisation that has associated elevated cobalt.</td>
<td>Minotaur Exploration Limited (Owner) 100% (ASX:MEP)</td>
<td>Target Outline</td>
<td><a href="http://www.minotaurexploration.com.au">www.minotaurexploration.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Titanium (&amp; Rutile)</td>
<td>TiO</td>
<td>Locksley Holdings Pty. Ltd.</td>
<td></td>
<td>Locksley Holdings Pty. Ltd. (Owner) 100%</td>
<td>Advanced Exploration</td>
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<tr>
<td>QLD</td>
<td>Tungsten</td>
<td>Watershed</td>
<td>Tungsten Mining NL</td>
<td>Measured resource of 4.42 Mt @ 0.25% WO3; Indicated resource of 11.51 Mt @ 0.24% WO3; Inferred resource of 4.73 Mt @ 0.26% WO3 at a cut-off grade of 0.10% WO3.</td>
<td>Tungsten Mining NL (Owner) 100% (ASX:TGN)</td>
<td>Feasibility Complete</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Gold and U3O8)</td>
<td>Evening Star</td>
<td>Ausmex Mining Group Limited</td>
<td>Drilling results in exploration report intersections of 6 m @ 1108 ppm Co, 4 m @ 1,190 ppm Co and 9 m @ 400 ppm Co, 1.01 g/t Au, and 3.16% Cu.</td>
<td>Ausmex Mining Group Limited (Optionee) 100% (ASX:AMG); Young Australian Mines Ltd. (Optionor)</td>
<td>Exploration</td>
<td><a href="http://www.ausmexgroup.com.au">www.ausmexgroup.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Titanium (&amp; Bauxite and Gold)</td>
<td>Monogorilby</td>
<td>IronRidge Resources Limited</td>
<td>JORC code 2012 inferred resource of 54,894,438 t @ 28.02% Al2O3, 5.2% TiO2.</td>
<td>IronRidge Resources Limited (Owner) 100%</td>
<td>Reserves Development</td>
<td><a href="http://www.ironridgeresources.com.au">www.ironridgeresources.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Platinum, Chromite and Cobalt (&amp; Palladium, Nickel, Copper, Zinc, Gold and Rhodium)</td>
<td>Marlborough</td>
<td>Castillo Copper Limited</td>
<td>Exploring ultramafic complexes near the Marlborough Nickel Deposits where previous exploration has identified Ni to 0.74% with anomalous Co, Cr and PGEs.</td>
<td>Castillo Copper Limited (ASX:CCZ)</td>
<td>Exploration</td>
<td><a href="http://www.castillocopper.com">www.castillocopper.com</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Bismuth, Antimony and Cobalt (&amp; Gold, Copper, Silver, Lead, Zinc, Arsenic, Selenium and Tellurium)</td>
<td>Gilberton</td>
<td>ActivEX Limited</td>
<td>Exploring for gold in a region where elevated level of Sb, Bi and Co are common.</td>
<td>ActivEX Limited (Owner) 100% (ASX:AIV)</td>
<td>Target Outline</td>
<td><a href="http://www.activex.com.au">www.activex.com.au</a></td>
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<td>QLD</td>
<td>Manganese (&amp; Gold)</td>
<td>Mary Valley</td>
<td>Eclipse Metals Limited</td>
<td>Eclipse has identified 3 manganese prospects with best drill results of 3.4 m @ 59.8% MnO and 2.4 m @ 26.3% MnO.</td>
<td>Eclipse Metals Limited (Optionee) 100% (ASX:EPM); Bluekebble Pty Ltd (Optionor)</td>
<td>Target Outline</td>
<td><a href="http://www.eclipsemetals.com.au">www.eclipsemetals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Tungsten (&amp; Tin and Gold)</td>
<td>Slaty Range</td>
<td>Tungsten Mining NL</td>
<td>Exploration is targeting anomalous tungsten occurrences of a style similar to the known deposits in the region.</td>
<td>Tungsten Mining NL (Owner) 100% (ASX:TGN)</td>
<td>Exploration</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
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<tr>
<td>QLD</td>
<td>Graphite</td>
<td>Esmeralda</td>
<td>Metallica Minerals Limited</td>
<td>Drilling undertaken in 2015: WD001 – 95.0 m @ 6.5%2 Cg from 71 m; WD002 – 29.1 m @ 7.8%2 Cg from 72 m. Testwork undertaken to produce high purity graphite concentrate with recovery of 90.53%.</td>
<td>Metallica Minerals Limited (Owner) 100% (ASX:MLM)</td>
<td>Target Outline</td>
<td><a href="http://www.metallicaminerals.com.au">www.metallicaminerals.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Graphite (&amp; Copper)</td>
<td>Mount Dromedary</td>
<td>NOVONIX Limited</td>
<td>Mineral Resource of 14.3 Mt @ 13.3% TGC (2016).</td>
<td>NOVONIX Limited (Owner) 100% (ASX:NVX)</td>
<td>Feasibility Started</td>
<td><a href="http://www.novonixgroup.com">www.novonixgroup.com</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Bismuth and Antimony (&amp; Silver, Copper, Lead and Gold)</td>
<td>Ukalunda</td>
<td>NQ Minerals Plc</td>
<td>The Ukalunda project includes several historic polymetallic mines and prospects including the Carrington silver - bismuth mine. Current exploration is focussing on the gold and silver potential of the area.</td>
<td>NQ Minerals Plc (Owner) 100%</td>
<td>Target Outline</td>
<td><a href="http://www.nqminerals.com/ukalunda">www.nqminerals.com/ukalunda</a></td>
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<tr>
<td>QLD</td>
<td>Lanthanides, Rare Earth Elements, Cerium, Lanthanum, Neodymium, Praseodymium, Samarium (&amp; Copper, Molybdenum, Gold and Silver)</td>
<td>Ravenswood</td>
<td>Stavely Minerals Limited</td>
<td>Stavely undertaking exploration focussing on gold, molybdenum, copper. REEs have been reported from stream sediment sampling.</td>
<td>Stavely Minerals Limited (Owner) 100% (ASX:SVY)</td>
<td>Target Outline</td>
<td><a href="http://www.stavely.com.au">www.stavely.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Graphite</td>
<td>Burke</td>
<td>Strike Resources Limited</td>
<td>Inferred Resource of 6 300 000 @ 16% TGC (2017).</td>
<td>Strike Resources Limited (Venturer) 60% (ASX:SRK); Burke Minerals Pty Ltd. (Venturer) 40%</td>
<td>Reserves Development</td>
<td><a href="http://www.strikeresources.com.au">www.strikeresources.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (and Copper and Gold)</td>
<td>Belgium</td>
<td>Ausmex Mining Group Limited</td>
<td>Historic copper mine with some elevated Co reported in exploration results.</td>
<td>Ausmex Mining Group Limited (Owner) 100% (ASX:AMG)</td>
<td>Target Outline</td>
<td><a href="http://www.ausmexgroup.com.au">www.ausmexgroup.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt (and Copper and Gold)</td>
<td>Trump</td>
<td>Ausmex Mining Group Limited</td>
<td>Drilling results in recent exploration report intersections of 60 m @ 1.3% Cu with elevated Co intersections up to 448 ppm Co.</td>
<td>Ausmex Mining Group Limited (Owner) 100% (ASX:AMG)</td>
<td>Target Outline</td>
<td><a href="http://www.ausmexgroup.com.au">www.ausmexgroup.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Vanadium</td>
<td>Toolebuc</td>
<td>Liontown Resources Limited</td>
<td>Inferred Resource of 83 700 000 t @ 0.30% V2O5 (2018).</td>
<td>Liontown Resources Limited (Owner) 100% (ASX:LTR)</td>
<td>Reserves Development</td>
<td><a href="http://www.ltresources.com.au">www.ltresources.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Cobalt and Tungsten (&amp; Gold and Copper)</td>
<td>Golden Mile</td>
<td>Ausmex Mining Group Limited</td>
<td>Drilling of primarily gold mineralisation has indicated some associated anomalous tungsten mineralisation.</td>
<td>Ausmex Mining Group Limited (Venturer) 80% (ASX:AMG); Washington H. Soul Pattinson and Company Limited (Venturer) 20%</td>
<td>Target Outline</td>
<td><a href="http://www.ausmexgroup.com.au">www.ausmexgroup.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Cobalt (&amp; Copper, Lead and Zinc)</td>
<td>Gorge Creek</td>
<td>Traka Resources Limited</td>
<td>Anomalous rock chip samples reported by Cobalt Qld in 2017 and 2017; 1510 ppm Pb, 6.32% K, 19.7 ppm La, 540 ppm P and other elevated REE, 1485 ppm Pb, 304 ppm Zn, 1040 ppm Ce, 491 ppm Ne, 497 ppm La, 5.44% K.</td>
<td>Traka Resources Limited (Optionee) 51% (ASX:TKL); Cobalt QLD Pty Ltd. (Optionor) 49%</td>
<td>Target Outline</td>
<td><a href="http://www.trakaresources.com.au">www.trakaresources.com.au</a></td>
</tr>
<tr>
<td>QLD</td>
<td>Vanadium (Copper, Molybdenum, Nickel and Zinc)</td>
<td>Julia Creek</td>
<td>QEM Limited</td>
<td>Inferred Resource of 1 700 000 t @ 0.34% V2O5 (2018) associated with oil shale.</td>
<td>QEM Limited (Owner) 100% (ASX:QEM)</td>
<td>Reserves Development</td>
<td><a href="http://www.qldem.com.au">www.qldem.com.au</a></td>
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<tr>
<td>QLD</td>
<td>Vanadium (&amp; Molybdenum)</td>
<td>Saint Elmo Multicom Resources</td>
<td>Measured Resource of 20.5 Mt @ 0.28% V2O5, an Indicated Resource of 228 Mt @ 0.30% V2O5 and Inferred Resource of 245 Mt @ 0.26% V2O5 (2017).</td>
<td>Multicom Resources (Owner) 100%</td>
<td>Prefeasibility/Scoping</td>
<td><a href="http://www.mcres.com.au">www.mcres.com.au</a></td>
<td></td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Siviour Renascar Resources Ltd</td>
<td>80.6 Mt @ 7.9% TGC for 6.4 Mt C.</td>
<td>ASX listed (RNU)</td>
<td>Early 2019 completion of definitive feasibility study.</td>
<td>Scoping study provides for Australian processing with production of 123,000tpa flake graphite. Further studies for potential production spherical graphite. &lt;br&gt;www.renascar.com.au</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Graphite</td>
<td>Uley Quantum Graphite Ltd</td>
<td>4.54 Mt @ 11.63% TGC for 520,000 t C.</td>
<td>ASX listed (GGL)</td>
<td>Care and maintenance</td>
<td>Uley is one deposit within the larger Mikkira Graphite district. Processing plant planned proposed for site. &lt;br&gt;www.quantumgraphite.com</td>
<td></td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Kookaburra Gully Lincoln Minerals Ltd</td>
<td>2.2 Mt @ 15.1% TGC for 331,778 t C (cut off 5% TGC).</td>
<td>ASX listed (LML)</td>
<td>Scoping study 2012 completed for Kookaburra / Koppio Project 35,000tpa C concentrate production</td>
<td>Likely resource extensions for exploration target for Kookaburra / Koppio Project 32-94 Mt. &lt;br&gt;www.lincolnminerals.com.au</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Graphite</td>
<td>Koppio Lincoln Minerals Ltd</td>
<td>1.85 Mt @ 9.76% TGC for 180,733 t C (cut off 5% TGC).</td>
<td>ASX listed (LML)</td>
<td>Scoping study 2012 completed for Kookaburra / Koppio Project 35,000tpa C concentrate production</td>
<td>Likely resource extensions. Licence negotiations for carbon-based Qubit processors. &lt;br&gt;www.archerx.com.au</td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Campoona Shaft Archer Exploration Ltd</td>
<td>1.65 Mt @ 9.2% TGC for 151,400 t (cut off 5% TGC).</td>
<td>ASX listed (AXE)</td>
<td>Seeking investment partners. Testwork at nano- and atomic-scale indicates high quality C. Collaboration agreement to convert graphite to graphene materials for use in batteries.</td>
<td>Likely resource extensions. Licence negotiations for carbon-based Qubit processors. &lt;br&gt;www.archerx.com.au</td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Oakdale Oakdale Resources Ltd</td>
<td>6.32 Mt @ 4.7% TGC for 296,570 t C (cut off 3% TGC).</td>
<td>ASX listed (OAR)</td>
<td>Preliminary scoping study</td>
<td>Potential for resource extension at Oakdale East. &lt;br&gt;www.oakdaleresources.com.au</td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Wilco South Archer Exploration Ltd</td>
<td>6.38 Mt @ 8.8% TGC for 550,000 t (cut off 5% TGC).</td>
<td>ASX listed (AXE)</td>
<td>Resource drilling to inferred.</td>
<td><a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
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<tr>
<td>SA</td>
<td>Graphite</td>
<td>Campoona Central</td>
<td>Archer Exploration Ltd</td>
<td>520 000 t @ 9% TGC (cut off 5% TGC).</td>
<td>ASX listed (AXE)</td>
<td>Seeking investment partners. Testwork at nano- and atomic-scale indicates high quality C. Collaboration agreement to convert graphite to graphene materials for use in batteries.</td>
<td>Campoona Central is the south extension of Campoona Shaft. <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
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<tr>
<td>SA</td>
<td>Cobalt</td>
<td>Mutooroo</td>
<td>Havilah Resources Ltd</td>
<td>598 kt @ 0.04% Co (oxide) + 5.846 Mt @ 0.14% Co (sulphide) for 8400 t contained Co.</td>
<td>ASX listed (HAV)</td>
<td>Resource drilled, investigation of treatment processes for Co recovery from multi-commodity deposit that includes Cu, Au, and S.</td>
<td>Central deposit in Mutooroo Co district, with active exploration of extensive area of anomalous Co geochemistry. <a href="http://www.havilah-resources.com.au">www.havilah-resources.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Cobalt</td>
<td>Kalkaroo</td>
<td>Havilah Resources Ltd</td>
<td>193.3 Mt @ 0.012% Co for 23 200 t contained Co.</td>
<td>ASX listed (HAV)</td>
<td>Advanced project, multi-commodity including Au, Cu (Mo).</td>
<td><a href="http://www.havilah-resources.com.au">www.havilah-resources.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Cobalt</td>
<td>Claude Hills</td>
<td>Metals X Ltd</td>
<td>33.3 Mt @ 0.07% for 23 310 t Co.</td>
<td>ASX listed (MLX)</td>
<td>Resource drilled to inferred. Multi-commodity, Ni, Fe.</td>
<td><a href="http://www.metalsx.com.au">www.metalsx.com.au</a></td>
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<tr>
<td>SA</td>
<td>Cobalt</td>
<td>North Portia</td>
<td>Consolidated Mining and Civil CMC</td>
<td>13 Mt @ 0.0154% Co for 600 t Co.</td>
<td>Private company</td>
<td>Advanced project. CMC have acquired the mining lease, with Havilah also paid 2% NSR. Multi-commodity, Cu, Au, Mo.</td>
<td><a href="http://www.conmc.net.au">www.conmc.net.au</a>; Acquired 2018 from Havilah Resources (see Havilah website for geology &amp; resource figures)</td>
</tr>
<tr>
<td>SA</td>
<td>Cobalt</td>
<td>Windabout</td>
<td>Gindalbie Metals Ltd</td>
<td>17.7 Mt @ 0.0492% for 8690 t Co.</td>
<td>ASX listed (GBQ)</td>
<td>Resource drilled. Multi-commodity, Cu, Ag.</td>
<td>Potential additional remaining resources in Mt. Gunson mining area in worked out deposits at Mt. Gunson, Cattlegrid, Gully, also unworked Emmie Bluff prospect. <a href="http://www.gindalbie.com.au">www.gindalbie.com.au</a></td>
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<tr>
<td>SA</td>
<td>Cobalt</td>
<td>MG14</td>
<td>Gindalbie Metals Ltd</td>
<td>430 000 t @ 0.0274% for 118 t Co.</td>
<td>ASX listed (GBQ)</td>
<td>Resource drilled. Multi-commodity, Cu, Ag.</td>
<td>Economics of incorporating a Co only product recovery plant in the processing flow line being considered. Economics of incorporating a Co only product recovery plant in the processing flow line being considered. <a href="http://www.gindalbie.com.au">www.gindalbie.com.au</a></td>
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<tr>
<td>SA</td>
<td>Manganese</td>
<td>Jamieson Tank</td>
<td>Archer Exploration Ltd</td>
<td>Non JORC, conceptual exploration target only based on historic drilling of 208 holes, 15-25 Mt, 8-12% Mn for minimum 120 000 t Mn.</td>
<td>ASX listed (AXE)</td>
<td>Testwork has confirmed MnO product suitable for electrolytic Mn dioxide (EMD) product.</td>
<td><a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Manganese</td>
<td>Pernatty Lagoon</td>
<td>Non-JORC, 167 500 t @ 19.6% Mn for 32 660 t Mn.</td>
<td>No</td>
<td>Estimate resource 1986.</td>
<td>2019, EL 5792, Resource Holdings Ltd,</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Mindarie A2</td>
<td>Murray Zircon Pty Ltd</td>
<td>Production 2007-15 4.5 Mt @ 4% HM for 180 000 t HM @ 27.6% Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Mined, no remaining resource.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Mindarie A2</td>
<td>Murray Zircon Pty Ltd</td>
<td>Production 2007-15 4.5 Mt @ 4% HM for 180 000 t HM @ 5% Rutile, 57% Ilmenite, 10% Leucoxene.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Mined, no remaining resource.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Mindarie C</td>
<td>Murray Zircon Pty Ltd</td>
<td>19.31 Mt @ 2.92% HM for 567 000 t HM with 99 645 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Mindarie C</td>
<td>Murray Zircon Pty Ltd</td>
<td>19.31 Mt @ 2.92% HM for 567 000 t HM with 310 030 t contained Ilmenite, 39 480 t contained Leucoxene, 30 170 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Amiens</td>
<td>Murray Zircon Pty Ltd</td>
<td>18.4 Mt @ 3% HM for 550 000 t HM with 107 116 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>State/Territory</td>
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<tr>
<td>SA</td>
<td>Titanium</td>
<td>Amiens</td>
<td>Murray Zircon Pty Ltd</td>
<td>18.4 Mt @ 3% HM for 550 000 t HM with 278 530 t contained Ilmenite, 16 908 t contained Leucoxene, 31 244 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Mercunda</td>
<td>Murray Zircon Pty Ltd</td>
<td>22.9 Mt @ 2.73% HM for 625 600 t HM with 114 139 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Mercunda</td>
<td>Murray Zircon Pty Ltd</td>
<td>22.9 Mt @ 2.73% HM for 625 600 t HM with 333 921 t contained Ilmenite, 40 382 t contained Leucoxene, 35 091 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Halidon</td>
<td>Murray Zircon Pty Ltd</td>
<td>13.6 Mt @ 4.00% HM for 543 000t HM with 86 384 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Halidon</td>
<td>Murray Zircon Pty Ltd</td>
<td>13.6 Mt @ 4.00% HM for 543 000t HM with 205 995 t contained Ilmenite, 20 000 t contained Leucoxene, 18 671 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Long Tan</td>
<td>Murray Zircon Pty Ltd</td>
<td>22.4 Mt @ 2.8% HM for 626 000 t HM with 89 348 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Long Tan</td>
<td>Murray Zircon Pty Ltd</td>
<td>22.4 Mt @ 2.8% HM for 626 000 t HM with 301 732 t contained Ilmenite, 53 980 t contained Leucoxene, 36 958 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<td>State/Territory</td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Lone Pine</td>
<td>Murray Zircon Pty Ltd</td>
<td>13.6 Mt @ 3.24% HM for 441 000 t HM with 111 748 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Lone Pine</td>
<td>Murray Zircon Pty Ltd</td>
<td>13.6 Mt @ 3.24% HM for 441 000 t HM with 221 382 t contained Ilmenite, 24 537 t contained Leucoxene, 22 844 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Perponda South</td>
<td>Murray Zircon Pty Ltd</td>
<td>29.3 Mt @ 3% HM for 883 000 t HM with 101 022 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Perponda South</td>
<td>Murray Zircon Pty Ltd</td>
<td>29.3 Mt @ 3% HM for 883 000 t HM with 251 641 t contained Ilmenite, 98 860 t contained Leucoxene, 48 328 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Mindarie A1</td>
<td>Murray Zircon Pty Ltd</td>
<td>8.8 Mt @ 2.7% HM for 238 000 t HM with 35 462 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td>Resource figure is remaining resource post-mining. <a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Mindarie A1</td>
<td>Murray Zircon Pty Ltd</td>
<td>8.8 Mt @ 2.7% HM for 238 000 t HM with 123 284 t contained Ilmenite, 24 848 t contained Leucoxene, 14 042 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td>Resource figure is remaining resource post-mining. <a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Balmoral</td>
<td>Murray Zircon Pty Ltd</td>
<td>14.4 Mt @ 3.1% HM for 451 000 t HM with 77 140 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>State/Territory</td>
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<tr>
<td>SA</td>
<td>Titanium</td>
<td>Balmoral</td>
<td>Murray Zircon Pty Ltd</td>
<td>14.4 Mt @ 3.1% HM for 451 000 t HM with 211 519 t contained Ilmenite, 25 564 t contained Leucoxene, 20 241 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Derrick</td>
<td>Murray Zircon Pty Ltd</td>
<td>36.8 Mt @ 3.2% HM for 1 184 000 t HM with 220 862t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Derrick</td>
<td>Murray Zircon Pty Ltd</td>
<td>36.8 Mt @ 3.2% HM for 1 184 000 t HM with 508 752 t contained Ilmenite, 76 786 t contained Leucoxene, 37 772 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Braemar</td>
<td>Murray Zircon Pty Ltd</td>
<td>44.4 Mt @ 3.1% HM for 1 385 000 t HM with 257 610 t contained Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Braemar</td>
<td>Murray Zircon Pty Ltd</td>
<td>44.4 Mt @ 3.1% HM for 1 385 000 t HM with 520 760 t contained Ilmenite, 120 495 t contained Leucoxene, 65 095 t contained Rutile.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Mindarie B</td>
<td>Murray Zircon Pty Ltd</td>
<td>12.5 Mt @ 3.0% HM for 375 000 t HM with no Zircon % provided. ZrO2 XRF values to max 7.95 equivalent to 11.5% Zircon.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Mindarie B</td>
<td>Murray Zircon Pty Ltd</td>
<td>12.5 Mt @ 3.0% HM for 375 000 t HM with no contained Ilmenite, Leucoxene, Rutile grade estimates.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Bencat</td>
<td>Murray Zircon Pty Ltd</td>
<td>Historic JORC (2000), 1.2 Mt, 3.0% HM for 36 000 t HM with no Zircon % provided.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Bencat</td>
<td>Murray Zircon Pty Ltd</td>
<td>Historic JORC (2000), 1.2 Mt, 3.0% HM for 36 000 t HM with no estimates for % Ilmenite, Leucoxene, Rutile provided.</td>
<td>JV with majority ownership by Guangdong Orient Zirconic Ind Sci &amp; Tech Co., Ltd. of China</td>
<td>Resource drilled, multi-commodity, rutile, leucoxene, ilmenite.</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
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<tr>
<td>SA</td>
<td>Zircon</td>
<td>Jacinth Ambrosia</td>
<td>Iluka Resources Ltd</td>
<td>208.5 Mt @ 2.7% HM for 5.69 Mt HM with 2 766 285 t contained zircon</td>
<td>ASX listed ILU</td>
<td>Active mines</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Jacinth Ambrosia</td>
<td>Iluka Resources Ltd</td>
<td>208.5 Mt @ 2.7% HM for 5.69 Mt HM with 1 502 320 t contained Ilmenite, 257 398 t contained Rutile.</td>
<td>ASX listed ILU</td>
<td>Active mines</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Tripitaka</td>
<td>Iluka Resources Ltd</td>
<td>53.7 Mt @ 1.9% HM for 998 000 t HM with 646 704 t contained Zircon</td>
<td>ASX listed ILU</td>
<td>Resource drilled</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Tripitaka</td>
<td>Iluka Resources Ltd</td>
<td>53.7 Mt @ 1.9% HM for 998 000 t HM with 110 778 t contained Ilmenite, 47 904 t contained Rutile.</td>
<td>ASX listed ILU</td>
<td>Resource drilled</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Barton West</td>
<td></td>
<td>171.7 Mt @ 2.8% HM for 4.81 Mt HM with 480 760 t contained Zircon.</td>
<td>No</td>
<td>Historic inferred only, Kingsgate.com.au &amp; Bao et al Econ Geol V106, pp 687 for calculated assemblage 10%Zr.</td>
<td>No tenure currently held</td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Barton West</td>
<td></td>
<td>171.7 Mt @ 2.8% HM for 4.81 Mt HM with 961 520 t contained combined Rt + Lx, 2 884 560 t contained Ilmenite.</td>
<td>No</td>
<td>Historic inferred only, Kingsgate.com.au &amp; Bao et al Econ Geol V106, pp 687 for calculated assemblage 10%Zr.</td>
<td>No tenure currently held</td>
</tr>
</tbody>
</table>
Critical Minerals Projects in Australia

<table>
<thead>
<tr>
<th>State/Territory</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Typhoon</td>
<td>Iluka Resources Ltd</td>
<td>23.7 Mt @ 6.3% HM for 1 488 000 t HM with 196 416 t contained Zircon.</td>
<td>ASX listed ILU)</td>
<td>Resource drilled</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Typhoon</td>
<td>Iluka Resources Ltd</td>
<td>23.7 Mt @ 6.3% HM for 1 488 000 t HM with 932 976 t contained Ilmenite, 13 392 t contained Rutile.</td>
<td>ASX listed ILU)</td>
<td>Resource drilled</td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Barton</td>
<td>Iluka Resources Ltd</td>
<td>285 Mt @ 1.9%HM for 3.32 Mt HM with 460 000 t contained Zircon.</td>
<td>No</td>
<td>Historic inferred only, redmetal.com.au</td>
<td>No tenure currently held</td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Barton</td>
<td>Iluka Resources Ltd</td>
<td>285 Mt @ 1.9%HM for 3.32 Mt HM with 2.6 Mt contained Ilmenite, 140 000 t contained Leucoxene, 120 000 t contained Rutile.</td>
<td>No</td>
<td>Historic inferred only, redmetal.com.au</td>
<td>No tenure currently held</td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Sonoran</td>
<td>Iluka Resources Ltd</td>
<td>27.5 Mt @ 7.41% HM for 2.04 Mt HM with 398 873 t contained Zircon.</td>
<td>ASX listed ILU)</td>
<td></td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Sonoran</td>
<td>Iluka Resources Ltd</td>
<td>27.5 Mt @ 7.41% HM for 2.04 Mt HM with 1 369 180 t contained Ilmenite, 30 868 t contained Rutile.</td>
<td>ASX listed ILU)</td>
<td></td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Atacama</td>
<td>Iluka Resources Ltd</td>
<td>72.6 Mt @ 12% HM for 8.73 Mt HM with 1 442 210 t contained Zircon.</td>
<td>ASX listed ILU)</td>
<td></td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Titanium</td>
<td>Atacama</td>
<td>Iluka Resources Ltd</td>
<td>72.6 Mt @ 12% HM for 8.73 Mt HM with 5 898 895 t contained Ilmenite, 174 381 t contained Rutile.</td>
<td>ASX listed ILU)</td>
<td></td>
<td><a href="http://www.iluka.com.au">www.iluka.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Camel Flat</td>
<td>Perilya Freehold Mining Pty Ltd</td>
<td>Historic JORC resource (pre-2004) 13 Mt @ 42% MgCO3 for 1.57 Mt contained Mg.</td>
<td>Private company</td>
<td>Based on surface geology, not drilled. Not part of the Archer magnesite project, no ML, tenure as EL 6284.</td>
<td><a href="http://www.perilya.com.au">www.perilya.com.au</a></td>
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<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Mount Hutton Central</td>
<td>Archer Exploration Ltd</td>
<td>17.523 Mt @ 40.3% MgCO₃ for 2.03 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td>Part of Archer magnesite project. Archer ASX announcement for intended sale of their magnesite resources. Cut-off date December 2019. Archer has received from buyer notice of intention to proceed.  <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Mount Hutton South</td>
<td>Archer Exploration Ltd</td>
<td>125 Mt @ 42.9% MgCO₃ for 15.5 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td>Archer ASX announcement for intended sale of their magnesite resources. Cut-off date December 2019. Archer has received from buyer notice of intention to proceed.  <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Mount Playfair</td>
<td>Archer Exploration Ltd</td>
<td>44 Mt @ 42.5% MgCO₃ for 5.4 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td><a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Myrtle Springs</td>
<td>Calix Ltd</td>
<td>450 000 t @ 87% MgCO₃ for 112 852 t contained Mg. Resource is for area within mineral tenement.</td>
<td>ASX listed</td>
<td>(CXL)</td>
<td>Archer JORC, for area beyond confines of ML are 10 Mt, 42.5% MgCO₃ for 1.23 Mt contained Mg. Calix are developing a patented CFC (Calix Flash Calcination) technology involving grind to 1um, then &quot;flash heating&quot; at 800 C.  <a href="http://www.calix.com.au">www.calix.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Witchelina</td>
<td>Archer Exploration Ltd</td>
<td>216.7 Mt @ 40% MgCO₃ for 25 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td>Archer ASX announcement for intended sale of their magnesite resources. Cut-off date December 2019. Archer has received from buyer notice of intention to proceed.  <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Pug Hill</td>
<td>Archer Exploration Ltd</td>
<td>20 Mt @ 42.7% MgCO₃ for 2.46 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td>Archer ASX announcement for intended sale of their magnesite resources. Cut-off date December 2019. Archer has received from buyer notice of intention to proceed.  <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Termination Hill</td>
<td>Archer Exploration Ltd</td>
<td>JORC @ 29 Mt, 42.8% MgCO₃ for 3.58 Mt contained Mg.</td>
<td>ASX listed</td>
<td>(AXE)</td>
<td>Archer ASX announcement for intended sale of their magnesite resources. Cut-off date December 2019. Archer has received from buyer notice of intention to proceed.  <a href="http://www.archerx.com.au">www.archerx.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Screechowl Creek</td>
<td>Gawler Resources Pty Ltd</td>
<td>Historic JORC resource (pre2004), 36 Mt @ 44.3% MgCO₃ for 4.6 Mt contained Mg.</td>
<td></td>
<td>Pty company</td>
<td>Resource based on surface geology, not drill tested.</td>
</tr>
<tr>
<td>State/Territory</td>
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<tr>
<td>SA</td>
<td>Magnesium</td>
<td>West Mount Hut</td>
<td>Gawler Resources Pty Ltd</td>
<td>Historic JORC resource (pre2004) 67 Mt @ 44.3% MgCO₃ for 8.6 Mt contained Mg.</td>
<td>Pty company</td>
<td>Resource based on surface geology, not drill tested.</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Magnesium</td>
<td>Mount Livingston</td>
<td>Quasar Resources Pty Ltd</td>
<td>Pre-JORC resource, 0.7 Mt @ 93% MgCO₃ for 187 655 t contained Mg.</td>
<td>Pty company</td>
<td>Uranium Exploration company, no indications of interest in Mg. No MLs. Tenure as EL 5916 Quasar Resources</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Zircon</td>
<td>Murray Basin, Eucla basin</td>
<td></td>
<td>Exploration has confirmed additional prospects for HMS in these districts.</td>
<td></td>
<td></td>
<td>Northern Murray Basin: Boxwood Dam, Johnsons Dam, Oakbank &amp; Eucla basin: Sherrin, Irish Well</td>
</tr>
<tr>
<td>SA</td>
<td>Graphite</td>
<td>Eyre Peninsula, Olary District</td>
<td></td>
<td>Exploration has confirmed multiple prospects throughout Eyre Peninsula.</td>
<td></td>
<td></td>
<td>Sugarloaf, Mikira Graphite District, southern Eyre Peninsula. Prospects are in the Olary area.</td>
</tr>
<tr>
<td>SA</td>
<td>Cobalt</td>
<td>Adelaide Rift Complex</td>
<td></td>
<td>Exploration has confirmed additional prospects for Co, and multi-commodity base metal-Co mineralisation in this district.</td>
<td></td>
<td></td>
<td>Princess Royal, Wilkins</td>
</tr>
<tr>
<td>SA</td>
<td>Helium</td>
<td>Otway basin</td>
<td>Beach Energy</td>
<td>Katnook 1 He 0.33-0.54 mol% Katnook 2 0.03-0.08 mol% Ladbroke Grove 1 0.08-0.25 mole% Caroline 1 0.008 mole%</td>
<td>ASX listed (BPT)</td>
<td></td>
<td><a href="http://www.beachenergy.com.au">www.beachenergy.com.au</a></td>
</tr>
<tr>
<td>SA</td>
<td>Rare-earth elements (bastnasite, synchysite, florentcite, monazite and xenotime)</td>
<td>Olympic Dam</td>
<td>BHP</td>
<td>Approximate concentrations of the light REE (LREE) and heavy REE plus yttrium (HREE + Y) within the Olympic Dam total resource are 3053 ppm and 110 ppm.</td>
<td>ASX listed</td>
<td>Operating mine site</td>
<td>Despite this considerable endowment, no REE are currently recovered at Olympic Dam, or elsewhere in the Olympic Cu Province. This is primarily due to relatively low REE grades, small grain size of host minerals, their dissemination throughout the deposit, and the dominance of LREE over the more economically attractive HREE. Nevertheless, the distribution and mineralogy of REE in the deposit are of major interest and potentially significant for reconstructing ore genesis and regional-scale exploration with respect to potential future exploitation. <a href="http://www.bhpbilliton.com">www.bhpbilliton.com</a></td>
</tr>
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<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Mt Lindsay</td>
<td>Venture Minerals</td>
<td>13 Mt @ 0.3% Sn, 0.2% WO3.</td>
<td>ASX-listed Pre-construction</td>
<td><a href="http://www.ventureminerals.com.au">www.ventureminerals.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Lutwyche</td>
<td>TNT Mines</td>
<td>5.5 Mt @ 0.2% Sn, 0.02% WO3.</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.tntmines.com.au">www.tntmines.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Aberfoyle</td>
<td>TNT Mines</td>
<td>28 Mt @ 0.04% WO3.</td>
<td>Private Producing (as by product of iron ore)</td>
<td><a href="http://www.tasmines.com.au">www.tasmines.com.au</a> (website not updated since 2017)</td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Foley Zone</td>
<td>Elementos</td>
<td>3.9 Mt @ 0.3% WO3.</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.elementos.com.au/">www.elementos.com.au/</a> projects/</td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Kara</td>
<td>Tasmania Mines</td>
<td>2.7 Mt @ 0.17% WO3.</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.tasmines.com.au">www.tasmines.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Dolphin</td>
<td>King Island Scheelite</td>
<td>7 Mt @ 1% WO3.</td>
<td>ASX-listed Development</td>
<td><a href="http://www.kingislandscheelite.com.au">www.kingislandscheelite.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>Bold Head</td>
<td>King Island Scheelite</td>
<td>1.65 Mt @ 0.9% WO3.</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.kingislandscheelite.com.au">www.kingislandscheelite.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten</td>
<td>KI Tailings</td>
<td>King Island Scheelite</td>
<td>1.8 Mt @ 0.3% WO3.</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.kingislandscheelite.com.au">www.kingislandscheelite.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Tungsten Fluorospar</td>
<td>Moina</td>
<td>Geotech International</td>
<td>0.1% WO3, 16% CaF2.</td>
<td>Private Exploration</td>
<td><a href="http://www.onestoptenementshop.com/tenement/moina-fluorite-tungsten-tin-gold-lithium/">www.onestoptenementshop.com/tenement/moina-fluorite-tungsten-tin-gold-lithium/</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Rare Earths</td>
<td>Prince Darwin</td>
<td>Corona Resources</td>
<td>Resources not defined</td>
<td>Un-listed Exploration</td>
<td><a href="http://www.coronaresources.com.au">www.coronaresources.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Magnesium</td>
<td>Arthur River</td>
<td>HiTec Minerals</td>
<td>25 Mt @ 41% MgO.</td>
<td>100% owned by Jindalee Resources (ASX:JRL)</td>
<td>Exploration</td>
<td><a href="http://www.jindalee.net">www.jindalee.net</a></td>
</tr>
<tr>
<td>TAS</td>
<td>Cobalt</td>
<td>Barnes Hill</td>
<td>Tasmania Energy Minerals</td>
<td>6.6 Mt @ 0.06% Co, 0.84% Ni</td>
<td>Un-listed Exploration</td>
<td><a href="http://www.ax8.com.au">www.ax8.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Cobalt</td>
<td>Avebury</td>
<td>Dundas Mining</td>
<td>29.3 Mt @ 0.023% Co, 0.9% Ni.</td>
<td>Un-listed Care and maintenance</td>
<td><a href="http://www.ax8.com.au">www.ax8.com.au</a></td>
<td></td>
</tr>
<tr>
<td>TAS</td>
<td>Cobalt</td>
<td>Sorell Peninsular</td>
<td>Accelerate resources</td>
<td>Exploration results only</td>
<td>ASX-listed Exploration</td>
<td><a href="http://www.ax8.com.au">www.ax8.com.au</a></td>
<td></td>
</tr>
<tr>
<td>VIC</td>
<td>Antimony (and Gold)</td>
<td>Costerfield</td>
<td>Mandalay Resources Ltd</td>
<td>Resource of 1319kT @ 3.1% Sb.</td>
<td>TSX-Listed (MND) Producing</td>
<td>Processed into concentrate in Victoria</td>
<td><a href="http://www.mandalayresources.com">www.mandalayresources.com</a></td>
</tr>
<tr>
<td>VIC</td>
<td>Zirconium and Titanium</td>
<td>Fingerboards</td>
<td>Kalbar Resources Ltd</td>
<td>Resource of 2.7 Bt @ 1.9% heavy minerals.</td>
<td>Unlisted Australian Public Company Exploring/Permitting</td>
<td><a href="http://www.kalbarresources.com.au">www.kalbarresources.com.au</a></td>
<td></td>
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<tr>
<td>VIC</td>
<td>Zirconium</td>
<td>Donald Mineral Sands</td>
<td>Astron Limited</td>
<td>Resource of 4.78 Bt @ 3.7% total heavy minerals, with the total heavy minerals on average including 19% Zircon, 9% Rutile + anatase, 33% ilmenite, 18% leucoxene and 2% monazite.</td>
<td>ASX-Listed (ATR)</td>
<td>Not yet producing</td>
<td><a href="http://www.astronlimited.com.au">www.astronlimited.com.au</a></td>
</tr>
<tr>
<td>VIC</td>
<td>Zirconium</td>
<td>WIM150</td>
<td>Orient Zirconic</td>
<td>1.65 Bt Mineral Resource @ 3.7% total heavy minerals. 552 Mt Ore Reserve @ 4.3% total heavy minerals.</td>
<td>Joint Venture between Orient Zirconic Pty Ltd and Million Up Ltd, a Hong Kong based investment fund</td>
<td>Not yet producing</td>
<td><a href="http://www.murrayzircon.com.au">www.murrayzircon.com.au</a></td>
</tr>
<tr>
<td>VIC</td>
<td>Zirconium and Rare-Earth Elements</td>
<td>Avonbank project</td>
<td>WIM Resources Pty Ltd</td>
<td>490 Mt @ 4.0% total heavy minerals. Total Ore Reserve 311.8 Mt @ 4.3% total heavy minerals.</td>
<td>Pty Company</td>
<td>Development</td>
<td><a href="http://www.wimresource.com.au">www.wimresource.com.au</a></td>
</tr>
<tr>
<td>VIC</td>
<td>Zirconium and Rare-Earth Elements</td>
<td>Bungalally Project</td>
<td>WIM Resources Pty Ltd</td>
<td>Inferred Resource of 205 Mt @ 2.7% total heavy minerals.</td>
<td>Pty Company</td>
<td>Exploring</td>
<td><a href="http://www.wimresource.com.au">www.wimresource.com.au</a></td>
</tr>
<tr>
<td>VIC</td>
<td>Zirconium</td>
<td>Wedderburn Project</td>
<td>WIM Resources Pty Ltd</td>
<td>Indicated and Inferred Resource of 223 Mt @ 2.9% total heavy minerals.</td>
<td>Pty Company</td>
<td>Exploring</td>
<td><a href="http://www.wimresource.com.au">www.wimresource.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Antimony</td>
<td>Blue Spec</td>
<td>Novo Resources</td>
<td>0.774 Mt, 0.966% Sb, 7473 t Sb.</td>
<td>TSX-V</td>
<td>Exploration</td>
<td><a href="http://www.novoresources.com">www.novoresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Antimony</td>
<td>Mt Clement Eastern Hills</td>
<td>Artemis Resources Ltd (80%); Northern Star Resources Ltd (20%)</td>
<td>1.312 Mt, 1.733% Sb, 22.747 kt Sb.</td>
<td>ASX-listed (ARV; NST)</td>
<td>Exploration</td>
<td><a href="http://www.artemisresources.com.au">www.artemisresources.com.au</a></td>
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<tr>
<td>WA</td>
<td>Antimony</td>
<td>Yallalong</td>
<td>Prospectors</td>
<td></td>
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<tr>
<td>WA</td>
<td>Beryllium</td>
<td>Maroonah</td>
<td>Rolek Resources Ltd</td>
<td>ASX-listed (ARV; NST)</td>
<td>Exploration</td>
<td><a href="http://www.rolek.com.au">www.rolek.com.au</a></td>
<td></td>
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<tr>
<td>WA</td>
<td>Beryllium</td>
<td>Other opportunities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential by-product from other pegmatite-hosted rare metal deposits, of which there are numerous in WA</td>
</tr>
<tr>
<td>WA</td>
<td>Bismuth</td>
<td>No specific projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No stand-alone projects; Potential by-product from orogenic gold, VMS Cu-Zn-Pb and epigenetic Pb deposits, of which there are numerous projects in WA</td>
</tr>
<tr>
<td>WA</td>
<td>Chromium</td>
<td>Coobina</td>
<td>Mineral Resources Ltd</td>
<td>1.5 Mt, 29.4%, 441 t Cr.</td>
<td>ASX-listed (MIN)</td>
<td>Exploration</td>
<td><a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Chromium</td>
<td>Milly Milly</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Chromium</td>
<td>Weld Range Ni laterite</td>
<td>Podium Minerals Ltd</td>
<td>385.3 Mt, 0.78% Cr, 3005.34 kt Cr.</td>
<td>ASX-listed (POD)</td>
<td>Exploration</td>
<td><a href="http://www.podiumminerals.com">www.podiumminerals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Chromium</td>
<td>Weld Range</td>
<td>Podium Minerals Ltd</td>
<td>63.5 Mt, 5.22% Cr, 3314.7 kt Cr.</td>
<td>ASX-listed (POD)</td>
<td>Exploration</td>
<td><a href="http://www.podiumminerals.com">www.podiumminerals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Chromium</td>
<td>Panton</td>
<td>Panoramic Resources Ltd</td>
<td>ASX-listed (PAN)</td>
<td>Exploration</td>
<td><a href="http://www.panoramicresources.com">www.panoramicresources.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Binti</td>
<td>Pioneer Resources Ltd</td>
<td>2.8 Mt, 0.09% Co, 2.3 kt Co.</td>
<td>ASX-listed (PIO)</td>
<td>Exploration</td>
<td><a href="http://www.pioneerresources.com.au">www.pioneerresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Black Hills</td>
<td>Western Resources Pty Ltd (50%); Zetek Resources Pty Ltd (50%)</td>
<td>30.0 Mt, 0.03% Co, 9.0 kt Co.</td>
<td>Private companies</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Bonaparte</td>
<td>Victory Mines Ltd</td>
<td>ASX-listed (VIC)</td>
<td>Exploration</td>
<td><a href="http://www.victorymines.com">www.victorymines.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Camelback Bore</td>
<td>Glencore</td>
<td>4.65 Mt, 0.069% Co, 3.2 kt Co.</td>
<td>ASX-listed (ZGI)</td>
<td>Exploration</td>
<td><a href="http://www.glencore.com.au">www.glencore.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Canegrass</td>
<td>Nickelore Ltd</td>
<td>29.6 Mt, 0.06% Co, 17.8 kt Co.</td>
<td>ASX-listed (ZGI)</td>
<td>Exploration</td>
<td><a href="http://www.nickelore.com.au">www.nickelore.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Carlingup – Nindilbilup</td>
<td>Australasian Mining Ltd</td>
<td>47.4 Mt, 0.022% Co, 5.42 kt Co.</td>
<td>Exploration</td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Carlow Castle</td>
<td>Artemis Resources Ltd</td>
<td>4.46 Mt, 0.073% Co, 19.5 kt Co.</td>
<td>ASX-listed (ARV)</td>
<td>Exploration</td>
<td><a href="http://www.artemisresources.com.au">www.artemisresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Coglia Well – Irwin Hills</td>
<td>Glencore; Brockman Mining</td>
<td>22.35 Mt, 0.112% Co, 25.1 kt Co.</td>
<td>ASX-listed (ZGI; BCK)</td>
<td>Exploration</td>
<td><a href="http://www.glencore.com.au">www.glencore.com.au</a>; <a href="http://www.brockmanmining.com">www.brockmanmining.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
<td>Company Name</td>
<td>Mineral Inventory</td>
<td>Company Ownership</td>
<td>Project Status</td>
<td>Other Information</td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Collurabie</td>
<td>Rox Resources Ltd</td>
<td>0.573 Mt, 0.082% Co, 0.47 kt Co.</td>
<td>ASX-listed (RXL)</td>
<td>Exploration</td>
<td><a href="http://www.roxresources.com.au">www.roxresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Copernicus</td>
<td>Panoramic Resources Ltd</td>
<td>0.665 Mt, 0.045% Co, 0.3 kt Co.</td>
<td>ASX-listed (PAN)</td>
<td>Exploration</td>
<td><a href="http://www.panoramicresources.com">www.panoramicresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Gabanintha</td>
<td>Australian Vanadium Ltd</td>
<td>14.3 Mt, 0.021% Co, 3.0 kt Co.</td>
<td>ASX-listed (AVL)</td>
<td>Exploration</td>
<td><a href="http://www.australianvanadium.com.au">www.australianvanadium.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Hanns Camp</td>
<td>Central Australian Rare Earths Pty Ltd</td>
<td></td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Jimberlana</td>
<td>AusQuest Ltd; South32</td>
<td>4.31 Mt, 0.063% Co, 2.7 kt Co.</td>
<td>ASX-listed (AGQ; S32)</td>
<td>Exploration</td>
<td><a href="http://www.ausquest.com.au">www.ausquest.com.au</a> <a href="http://www.south32.net">www.south32.net</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Kalgoorlie Nickel Project – East</td>
<td>Ardea Resources Ltd</td>
<td>145.7 Mt, 0.048% Co, 70.1 kt Co.</td>
<td>ASX-listed (ARL)</td>
<td>Exploration</td>
<td><a href="http://www.ardearesources.com.au">www.ardearesources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Kalgoorlie Nickel Project – West</td>
<td>Ardea Resources Ltd</td>
<td>349.9 Mt, 0.053% Co, 185.2 kt Co.</td>
<td>ASX-listed (ARL)</td>
<td>Exploration</td>
<td><a href="http://www.ardearesources.com.au">www.ardearesources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Kalgoorlie Nickel Project – Siberia – Black Range</td>
<td>Ardea Resources Ltd</td>
<td>26.9 Mt, 0.073% Co, 19.5 kt Co.</td>
<td>ASX-listed (ARL)</td>
<td>Exploration</td>
<td><a href="http://www.ardearesources.com.au">www.ardearesources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Kurnalpi – Grey Dam</td>
<td>Carnavale Resources Ltd</td>
<td>14.5 Mt, 0.046% Co, 6.7 kt Co.</td>
<td>ASX-listed (CAV)</td>
<td>Exploration</td>
<td><a href="http://www.carnaveleresources.com">www.carnaveleresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Kyarra</td>
<td>Great Western Exploration Ltd</td>
<td></td>
<td>ASX-listed (GTE)</td>
<td>Exploration</td>
<td><a href="http://www.greatwesternexploration.com.au">www.greatwesternexploration.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Lanfranchi Tramways</td>
<td>Black Mountain Metals</td>
<td>0.13 Mt, 0.094% Co, 0.12 kt Co.</td>
<td>US-listed</td>
<td>Care and maintenance</td>
<td></td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Larkins Find</td>
<td>Golden Life Nature Products (WA) Pty Ltd</td>
<td>5.2 Mt, 0.08% Co, 4.2 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Maroochydore – Broadhurst</td>
<td>Metals X Ltd</td>
<td>48.53 Mt, 0.038% Co, 18.5 kt Co.</td>
<td>ASX-listed (MLX)</td>
<td>Exploration</td>
<td><a href="http://www.metalsx.com.au">www.metalsx.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Minara</td>
<td>Golden Mile Resources Ltd</td>
<td>2.53 Mt, 0.05% Co, 1.3 kt Co.</td>
<td>ASX-listed (G88)</td>
<td>Exploration</td>
<td><a href="http://www.goldenmileresources.com.au">www.goldenmileresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Mt Mulcahy</td>
<td>Scorpion Minerals Ltd</td>
<td>0.647 Mt, 0.103% Co, 0.67 kt Co.</td>
<td>ASX-listed (SCN)</td>
<td>Exploration</td>
<td><a href="http://www.scorpionminerals.com.au">www.scorpionminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Mt Remarkable / Duck Hill Nickel</td>
<td>White Cliff Minerals Ltd</td>
<td>3.94 Mt, 0.077% Co, 3.0 kt Co.</td>
<td>ASX-listed (WCN)</td>
<td>Exploration</td>
<td><a href="http://www.wcminerals.com.au">www.wcminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Mt Thirsty</td>
<td>Barra Resources Ltd; Conico Ltd</td>
<td>31.9 Mt, 0.126% Co, 40.1 kt Co.</td>
<td>ASX-listed (BAR; CNJ)</td>
<td>Exploration</td>
<td><a href="http://www.barraresources.com.au">www.barraresources.com.au</a> <a href="http://www.conico.com.au">www.conico.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Murrin Murrin</td>
<td>Glencore via Minara Resources Pty Ltd</td>
<td>236.3 Mt, 0.077% Co, 181.9 kt Co.</td>
<td>ASX-listed (ZGI)</td>
<td>Producing</td>
<td><a href="http://www.minara.com.au">www.minara.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>NiWest</td>
<td>GME Resources Ltd</td>
<td>67.1 Mt, 0.065% Co, 43.7 kt Co.</td>
<td>ASX-listed (GME)</td>
<td>Exploration</td>
<td><a href="http://www.gmeresources.com.au">www.gmeresources.com.au</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<td>Mineral Inventory</td>
<td>Company Ownership</td>
<td>Project Status</td>
<td>Other Information</td>
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<td>WA</td>
<td>Cobalt</td>
<td>Norseman</td>
<td>Galileo Mining Ltd</td>
<td>25.1 Mt, 0.109% Co, 27.4 kt Co.</td>
<td>ASX-listed (GAL)</td>
<td>Exploration</td>
<td><a href="http://www.galileomining.com.au">www.galileomining.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>North Telfer</td>
<td>Antipa Minerals Ltd</td>
<td>6.6 Mt, 0.039% Co, 2.6 kt Co.</td>
<td>ASX-listed (AZY)</td>
<td>Exploration</td>
<td><a href="http://www.antipaminerals.com.au">www.antipaminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Nova-Bollinger</td>
<td>Independence Group Ltd</td>
<td>11.5 Mt, 0.079% Co, 9.1 kt Co.</td>
<td>ASX-listed (IGO)</td>
<td>Producing</td>
<td><a href="http://www.independencegroup.com.au">www.independencegroup.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Pardoo – Highway</td>
<td>Caeneus Minerals Ltd</td>
<td>50.0 Mt, 0.03% Co, 15.0 kt Co.</td>
<td>ASX-listed (IGO)</td>
<td>Exploration</td>
<td><a href="http://www.caeneus.com.au">www.caeneus.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Pelican</td>
<td>GSM Mining Company Pty Ltd</td>
<td>5.39 Mt, 0.084% Co, 4.5 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Pyke Hill</td>
<td>Cougar Metals NL</td>
<td>14.7 Mt, 0.066% Co, 9.89 kt Co.</td>
<td>ASX-listed (CGM)</td>
<td>Exploration</td>
<td><a href="http://www.cgm.com.au">www.cgm.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Radio Hill</td>
<td>Artemis Resources Ltd</td>
<td>1.15 Mt, 0.028% Co, 0.32 kt Co.</td>
<td>ASX-listed (ARV)</td>
<td>Exploration</td>
<td><a href="http://www.artemisresources.com.au">www.artemisresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Ravensthorpe</td>
<td>First Quantum Minerals Ltd</td>
<td>307.3 Mt, 0.027% Co, 84.3 kt Co.</td>
<td>TSX listed</td>
<td>Exploration</td>
<td><a href="http://www.first-quantum.com">www.first-quantum.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Riverina</td>
<td>Carnegie Gold Pty Ltd</td>
<td>2.2 Mt, 0.06% Co, 1.32 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Savannah</td>
<td>Panoramic Resources Ltd</td>
<td>13.2 Mt, 0.113% Co, 14.9 kt Co.</td>
<td>ASX-listed (PAN)</td>
<td>Producing</td>
<td><a href="http://www.panoramicresources.com">www.panoramicresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Scotia Nickel – Broad Arrow</td>
<td>Minotaur Exploration Ltd</td>
<td>1.05 Mt, 0.06% Co, 0.63 kt Co.</td>
<td>ASX-listed (MEP)</td>
<td>Exploration</td>
<td><a href="http://www.minotaurexploration.com.au">www.minotaurexploration.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Sherlock Bay</td>
<td>Sabre Resources Ltd (70%); Metals Australia Ltd (4.5%); Australasian Resources Ltd (25.5%)</td>
<td>24.7 Mt, 0.022% Co, 5.42 kt Co.</td>
<td>ASX-listed (SBR; MLS)</td>
<td>Exploration</td>
<td><a href="http://www.sabreexploration.com">www.sabreexploration.com</a> <a href="http://www.metasaustralia.com.au">www.metasaustralia.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Siberia Joint Venture</td>
<td>Eastern Goldfields Ltd</td>
<td>159.8 Mt, 0.035% Co, 55.3 kt Co.</td>
<td>ASX-listed (EGS)</td>
<td>Exploration</td>
<td><a href="http://www.easterngoldfields.com.au">www.easterngoldfields.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Silver Knight</td>
<td>Great Southern Nickel Pty Ltd</td>
<td>4.3 Mt, 0.039% Co, 1.7 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Tollu</td>
<td>Redstone Resources Ltd</td>
<td>3.9 Mt, 0.015% Co, 0.59 kt Co.</td>
<td>ASX-listed (RDS)</td>
<td>Exploration</td>
<td><a href="http://www.redstone.com.au">www.redstone.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Weld Range Nickel Laterite</td>
<td>Ausinox Pty Ltd</td>
<td>385.3 Mt, 0.04% Co, 154.1 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td><a href="http://www.ozminerals.com">www.ozminerals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>West Musgrave</td>
<td>Oz Minerals Ltd</td>
<td>283.0 Mt, 0.013% Co, 38.2 kt Co.</td>
<td>ASX-listed (OZL)</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Wilconi</td>
<td>A-Cap Energy Ltd; Blackham Resources</td>
<td>80.5 Mt, 0.06% Co, 48.3 kt Co.</td>
<td>ASX-listed (ACB; BLK)</td>
<td>Exploration</td>
<td><a href="http://www.acap.com.au">www.acap.com.au</a> <a href="http://www.blackhamresources.com.au">www.blackhamresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Wingellina</td>
<td>Metals X Ltd</td>
<td>215.8 Mt, 0.07% Co, 151.1 kt Co.</td>
<td>ASX-listed (MLX)</td>
<td>Exploration</td>
<td><a href="http://www.metalsx.com.au">www.metalsx.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Yerilla</td>
<td>Glencore via Minara Resources Pty Ltd</td>
<td>7.78 Mt, 0.082% Co, 0.47 kt Co.</td>
<td>ASX-listed (ZGI)</td>
<td>Exploration</td>
<td><a href="http://www.minara.com.au">www.minara.com.au</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
<td>Company Name</td>
<td>Mineral Inventory</td>
<td>Company Ownership</td>
<td>Project Status</td>
<td>Other Information</td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Yerilla Jade</td>
<td>Australian Jade Mining Pty Ltd</td>
<td>90.8 Mt, 0.046% Co, 42.2 kt Co.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Cobalt</td>
<td>Other opportunities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential by-product in sediment-hosted Cu-Co and orthomagmatic Ni-Cu deposits, of which there are numerous other examples in WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Gallium</td>
<td>Pinjarra extraction plant</td>
<td>Anascot Pty Ltd</td>
<td></td>
<td>Private company</td>
<td>Care and maintenance</td>
<td></td>
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<tr>
<td>WA</td>
<td>Gallium</td>
<td>No specific projects</td>
<td></td>
<td></td>
<td>No stand-alone projects; potential by-product from bauxite, of which there are numerous projects in WA.</td>
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<tr>
<td>WA</td>
<td>Germanium</td>
<td>No specific projects</td>
<td></td>
<td></td>
<td>No stand-alone projects; potential by-product from sphalerite in VMS Zn-Cu and MVT Zn-Pb deposits of which there are numerous examples in WA.</td>
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<tr>
<td>WA</td>
<td>Graphite</td>
<td>Ajana</td>
<td>Anson Resources Ltd</td>
<td>ASX-listed (ASN)</td>
<td>Exploration</td>
<td></td>
<td><a href="http://www.ansonresources.com">www.ansonresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Corkwood</td>
<td>Sayona Mining Ltd</td>
<td>ASX-listed (SYA)</td>
<td>Exploration</td>
<td></td>
<td><a href="http://www.sayonamining.com.au">www.sayonamining.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Donnelly River</td>
<td>D Mazza</td>
<td>Prospector</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Graphite</td>
<td>Eucla West</td>
<td>Forge Resources Crown Pty Ltd (24.95%), Wild Side (WA) Pty Ltd (24.95%) and Westover Holdings Pty Ltd (50.1%)</td>
<td>Private companies</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Graphite</td>
<td>Glenburgh</td>
<td>Hurricane Prospecting Pty Ltd</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>McIntosh</td>
<td>Hexagon Resources Ltd (49.0%); Mineral Resources Ltd (51.0%)</td>
<td>21.5 Mt, 4.526% Total Graphitic Carbon, 973.1 kt TGC.</td>
<td>ASX-listed (HXG; MIN)</td>
<td>Exploration</td>
<td><a href="http://www.hexagonresources.com">www.hexagonresources.com</a>, <a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Munglinup</td>
<td>Renascor Resources Ltd</td>
<td>ASX-listed (RNU)</td>
<td>Exploration</td>
<td></td>
<td><a href="http://www.renascor.com.au">www.renascor.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Munglinup</td>
<td>Gold Terrace Pty Ltd (49%); Mineral Commodities Ltd (51%)</td>
<td>3.625 Mt, 15.308% Total Graphitic Carbon, 554.929 kt TGC.</td>
<td>Private company; ASX-listed (MRC)</td>
<td>Exploration</td>
<td>Currently investigating sphoidisation at Doral Fused Materials PL Kwinana plant <a href="http://www.mineralcommodities.com">www.mineralcommodities.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
<td>Company Name</td>
<td>Mineral Inventory</td>
<td>Company Ownership</td>
<td>Project Status</td>
<td>Other Information</td>
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<tr>
<td>WA</td>
<td>Graphite</td>
<td>Munglinup</td>
<td>Ultracharge Ltd</td>
<td></td>
<td>ASX-listed (UTR)</td>
<td>Exploration</td>
<td><a href="http://www.ultra-charge.net">www.ultra-charge.net</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Munglinup North</td>
<td>Metalicity Ltd</td>
<td></td>
<td>ASX-listed (MCT)</td>
<td>Exploration</td>
<td><a href="http://www.metalicity.com.au">www.metalicity.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Springdale</td>
<td>Comet Resources Ltd</td>
<td>15.60 Mt, 4.75% Total Graphitic Carbon, 741.0 kt TGC.</td>
<td>ASX-listed (CRL)</td>
<td>Exploration</td>
<td><a href="http://www.cometres.com.au">www.cometres.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Yalbra</td>
<td>Buxton Resources Ltd</td>
<td>4.022 Mt, 16.17% Total Graphitic Carbon, 650.357 kt TGC.</td>
<td>ASX-listed (BUX)</td>
<td>Exploration</td>
<td><a href="http://www.buxtonresources.com.au">www.buxtonresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Graphite</td>
<td>Henderson</td>
<td>First Graphene Ltd</td>
<td></td>
<td>ASX-listed (FGR)</td>
<td>Producing</td>
<td>Graphene production facility built at Henderson, to process ore from Sri Lanka <a href="http://www.firstgraphene.com.au">www.firstgraphene.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Helium</td>
<td>No specific projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Prospective is untested in WA; potential to be sourced from natural gas fields in onshore and offshore WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Indium</td>
<td>No specific projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential by-product from sphalerite in VMS Zn-Cu and MVT Zn-Pb deposits of which there are numerous examples in WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Bald Hill</td>
<td>Alliance Mineral Assets Ltd</td>
<td>26.5 Mt, 0.965% Li2O, 255.8 kt Li2O.</td>
<td>ASX-listed (A40)</td>
<td>Producing</td>
<td><a href="http://www.allianceminerals.com.au">www.allianceminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Buldania</td>
<td>Liontown Resources Ltd</td>
<td></td>
<td>ASX-listed (LTR)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.ltresources.com.au">www.ltresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Cocanarup</td>
<td>Lithium Australia NL</td>
<td></td>
<td>ASX-listed (LIT)</td>
<td>Exploration</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Cowan</td>
<td>Cowan Lithium Ltd</td>
<td></td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.cowanlithium.com.au">www.cowanlithium.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Forrestania</td>
<td>Marindi Metals Ltd</td>
<td></td>
<td>ASX-listed (MZN)</td>
<td>Exploration</td>
<td><a href="http://www.marindi.com.au">www.marindi.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Forrestania</td>
<td>Western Areas Ltd</td>
<td></td>
<td>ASX-listed (WSA)</td>
<td>Exploration</td>
<td><a href="http://www.westernareas.com.au">www.westernareas.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Forrestania Rubellite</td>
<td>L A Bell (15%); F R Rose (14%); Marindi Metals Ltd (70%)</td>
<td></td>
<td>Prospects; ASX-listed (MZN)</td>
<td>Exploration</td>
<td><a href="http://www.marindi.com.au">www.marindi.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Goldfields Lithium Alliance</td>
<td>Cazaly Resources Ltd (50%); Lithium Australia NL (50%)</td>
<td></td>
<td>ASX-listed (CAZ; LIT)</td>
<td>Exploration</td>
<td><a href="http://www.cazalyresources.com.au">www.cazalyresources.com.au</a> <a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
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<tr>
<td>WA</td>
<td>Lithium</td>
<td>Greenbushes</td>
<td>Tianqi (51%) and Albemarle (49%) via Talison Lithium Australia Pty Ltd</td>
<td>157.1 Mt, 2.25% Li2O, 3532.2 kt Li2O.</td>
<td>China-listed; US-listed</td>
<td>Producing</td>
<td>LiOH/LiCO3 plants being constructed by both JV partners</td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Greenbushes</td>
<td>Lithium Australia NL</td>
<td>ASX-listed (LiT)</td>
<td>Exploration</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium South</td>
<td>Greenbushes</td>
<td>Venture Minerals Ltd</td>
<td>ASX-listed (VMS)</td>
<td>Exploration</td>
<td><a href="http://www.ventureminerals.com.au">www.ventureminerals.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Kathleen Valley</td>
<td>Liontown Resources Ltd</td>
<td>21.2 Mt, 1.36% Li2O, 288.3 kt Li2O.</td>
<td>ASX-listed (LTR)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.ltresearch.com.au">www.ltresearch.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Lake Johnson</td>
<td>Lithium Australia NL</td>
<td>ASX-listed (LiT)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Lynas Find</td>
<td>Pilbara Minerals Ltd</td>
<td>5.3 Mt, 1.56% Li2O, 82.7 kt Li2O.</td>
<td>ASX-listed (PLS)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.pilbaraminerals.com.au">www.pilbaraminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mallina</td>
<td>Great Sandy Pty Ltd (20%); Sayona Mining Ltd (80%)</td>
<td>Private company; ASX-listed (SYA)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.sayonaminning.com.au">www.sayonaminning.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Moriarty</td>
<td>Maximus Resources Ltd (25%); Lepidico Ltd (75%)</td>
<td>ASX-listed (MXR; LPD)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.maximusresources.com">www.maximusresources.com</a> <a href="http://www.lepidico.com">www.lepidico.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mt Alexander</td>
<td>Zenith Minerals Ltd</td>
<td>ASX-listed (ZNC)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.zenithminerals.com">www.zenithminerals.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mt Cattlin</td>
<td>Galaxy Resources Ltd</td>
<td>16.7 Mt, 1.28% Li2O, 214.4 kt Li2O.</td>
<td>ASX-listed (GXY)</td>
<td>Producing</td>
<td>Pegmatite-hosted <a href="http://www.gxy.com">www.gxy.com</a></td>
</tr>
<tr>
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<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mt Holland</td>
<td>Kidman Resources Ltd (50%); Sociedad Quimica y Minera de Chile S.A. (50%)</td>
<td>189.0 Mt, 1.50% Li2O, 2842.7 kt Li2O.</td>
<td>ASX-listed (KDR); US-listed</td>
<td>Exploration</td>
<td><a href="http://www.kidmanresources.com.au">www.kidmanresources.com.au</a> <a href="http://www.sqm.com">www.sqm.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mt Marion</td>
<td>Reed Industrial Minerals Pty Ltd</td>
<td>71.4 Mt, 1.37% Li2O, 976.2 kt Li2O.</td>
<td>Private company</td>
<td>Producing</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Mt York</td>
<td>Kairos Minerals Ltd</td>
<td></td>
<td>ASX-listed (KAI)</td>
<td>Exploration</td>
<td><a href="http://www.kairosminerals.com.au">www.kairosminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Paynes Find</td>
<td>Private interests (10%); Mineral Commodities Ltd (90%)</td>
<td></td>
<td>ASX-listed (MRC)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.mineralcommodities.com">www.mineralcommodities.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Pilgangoora</td>
<td>Altura Mining Ltd</td>
<td>50.5 Mt, 1.02% Li2O, 512.4 kt Li2O.</td>
<td>ASX-listed (AJM)</td>
<td>Producing</td>
<td>Pegmatite-hosted <a href="http://www.alturamining.com">www.alturamining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Pilgangoora</td>
<td>Pilbara Minerals Ltd</td>
<td>207.9 Mt, 1.32% Li2O, 2736.5 kt Li2O.</td>
<td>ASX-listed (PLS)</td>
<td>Producing</td>
<td>Pegmatite-hosted <a href="http://www.pilbaraminerals.com.au">www.pilbaraminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Pilgangoora</td>
<td>Sociedad Quimica y Minera de Chile S.A.</td>
<td></td>
<td>US-listed</td>
<td>Exploration</td>
<td><a href="http://www.sqm.com">www.sqm.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Pioneer Dome</td>
<td>Pioneer Resources Ltd</td>
<td></td>
<td>ASX-listed (PIO)</td>
<td>Producing</td>
<td>First production is of Cs (pollucite) <a href="http://www.pioneerresources.com.au">www.pioneerresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Poona</td>
<td>B R Legendre (10%); Venus Metals Corporation Ltd (15%); Pilgangoora Minerals Pty Ltd (75%)</td>
<td></td>
<td>Prospector; ASX-listed (VMC); Private company</td>
<td>Exploration</td>
<td><a href="http://www.venusmetals.com.au">www.venusmetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Seabrook Rare Metals Venture</td>
<td>Tungsten Mining NL (20%); Lithium Australia NL (80%)</td>
<td></td>
<td>ASX-listed (TGN; LIT)</td>
<td>Exploration</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a> <a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Widgiemooltha</td>
<td>Mincor Resources NL</td>
<td></td>
<td>ASX-listed (MCR)</td>
<td>Exploration</td>
<td><a href="http://www.mincor.com.au">www.mincor.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Wodgina East</td>
<td>Kairos Minerals Ltd (29%); Altura Mining Ltd (75%)</td>
<td></td>
<td>ASX-listed (KAI; AJM)</td>
<td>Exploration</td>
<td><a href="http://www.kairosminerals.com.au">www.kairosminerals.com.au</a> <a href="http://www.alturamining.com">www.alturamining.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
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<tr>
<td>WA</td>
<td>Lithium</td>
<td>Wodgina Mining Assets</td>
<td>Mineral Resources Ltd (50%); Albemarle Corporation (50%)</td>
<td>259.2 Mt, 1.17% Li2O, 3032.3 kt Li2O.</td>
<td>ASX-listed (MIN); US-listed</td>
<td>Producing</td>
<td><a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a> <a href="http://www.albemarle.com">www.albemarle.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Wodgina South</td>
<td>Venus Metals Corporation Ltd (25%); Pilgangoora Minerals Pty Ltd (75%)</td>
<td></td>
<td>ASX-listed (VMC)</td>
<td>Exploration</td>
<td><a href="http://www.venusmetals.com.au">www.venusmetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Yalgoo</td>
<td>MacArthur Minerals Ltd</td>
<td></td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.macarthurminerals.com">www.macarthurminerals.com</a></td>
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<tr>
<td>WA</td>
<td>Lithium</td>
<td>Young River</td>
<td>Renascor Resources Ltd</td>
<td></td>
<td>ASX-listed (RNU)</td>
<td>Exploration</td>
<td><a href="http://www.renascor.com.au">www.renascor.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Lithium</td>
<td>Other opportunities</td>
<td></td>
<td></td>
<td></td>
<td>Exploratory</td>
<td>Untested potential to be sourced from petroleum field brines in onshore and offshore WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Bandalup</td>
<td>R J Butler (35%); Ashbridge Holdings Pty Ltd (65%)</td>
<td>1.1 Mt, 97% MgCO3, 1100 kt MgCO3.</td>
<td>Prospector; Private company</td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Bulong</td>
<td>M R Dallas-Costa</td>
<td>3.44 Mt, 97% MgCO3, 3336.8kt MgCO3.</td>
<td>Prospector</td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Coolgardie</td>
<td>Blue Tiger Mines Pty Ltd</td>
<td></td>
<td></td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Duck Hill</td>
<td>N/A</td>
<td>0.001 Mt, 100% MgCO3, 1 kt MgCO3.</td>
<td></td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Eulamirna</td>
<td>Glencore via Minara Resources Pty Ltd</td>
<td></td>
<td>ASX-Listed (ZGI)</td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Four Corners</td>
<td>N/A</td>
<td>9.6 Mt, 100% MgCO3, 9600 kt MgCO3.</td>
<td></td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Lawlers</td>
<td>Glencore via Minara Resources Pty Ltd</td>
<td>94.9 Mt, 100% MgCO3, 94 900 kt MgCO3.</td>
<td>ASX-Listed (ZGI)</td>
<td>Exploration</td>
<td>Magnesite <a href="http://www.minara.com.au">www.minara.com.au</a></td>
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<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Mt Burges</td>
<td>M P Strindberg</td>
<td></td>
<td>Prospector</td>
<td>Exploration</td>
<td>Magnesite</td>
</tr>
<tr>
<td>WA</td>
<td>Magnesium</td>
<td>Murrin Murrin</td>
<td>Glencore via Minara Resources Pty Ltd</td>
<td>46.9 Mt, 100% MgCO3, 46 900 kt MgCO3.</td>
<td>ASX-Listed (ZGI)</td>
<td>Exploration</td>
<td>Magnesite <a href="http://www.minara.com.au">www.minara.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Manganese</td>
<td>701 Mile</td>
<td>Great Sandy Pty Ltd</td>
<td></td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>State/Territory</td>
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<tr>
<td>WA</td>
<td>Manganese</td>
<td>Balfour South – Woodie Woodie</td>
<td>Consolidated Minerals Pty Ltd</td>
<td>Private company</td>
<td>Exploration</td>
<td><a href="http://www.consmin.com">www.consmin.com</a></td>
<td></td>
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<tr>
<td>WA</td>
<td>Manganese</td>
<td>Barramine</td>
<td>Great Sandy Pty Ltd</td>
<td>Private company</td>
<td>Exploration</td>
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<tr>
<td>WA</td>
<td>Manganese</td>
<td>Battery Hub</td>
<td>Pure Manganesees Pty Ltd</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
<td></td>
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<tr>
<td>WA</td>
<td>Manganese</td>
<td>Bee Hill – Woodie Woodie</td>
<td>Consolidated Minerals Pty Ltd</td>
<td>Private company</td>
<td>Exploration</td>
<td><a href="http://www.consmin.com">www.consmin.com</a></td>
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<td>Bryah Basin</td>
<td>Bryah Resources Ltd</td>
<td>ASX-listed (BYH)</td>
<td>Exploration</td>
<td><a href="http://www.bryah.com.au">www.bryah.com.au</a></td>
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<td>WA</td>
<td>Manganese</td>
<td>Black Hills</td>
<td>Western Resources Pty Ltd; Zetek Resources Pty Ltd</td>
<td>30.0 Mt, 0.15% Mn, 44.7 kt Mn.</td>
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<td>Manganese</td>
<td>Butcherbird – Yanneri</td>
<td>Element 25 Ltd</td>
<td>180.7 Mt, 10.8% Mn, 19 534.8 kt Mn.</td>
<td>ASX-listed (E25)</td>
<td>Exploration</td>
<td><a href="http://www.element25.com.au">www.element25.com.au</a></td>
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<td>Manganese</td>
<td>Cane Well – June Hill</td>
<td>Rio Tinto via Rio Tinto Exploration Pty Ltd</td>
<td>ASX-listed (RIO)</td>
<td>Exploration</td>
<td><a href="http://www.riotinto.com">www.riotinto.com</a></td>
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<td>Capricorn NW</td>
<td>P R Gianni</td>
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<td>Exploration</td>
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<td>Coppermine Creek – Naendip</td>
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<td>WA</td>
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<td>Carina</td>
<td>Mineral Resources Ltd via Polaris Metals Pty Ltd</td>
<td>23.5 Mt, 0.46% Mn, 108.9 kt Mn.</td>
<td>ASX-listed (MIN)</td>
<td>Exploration</td>
<td><a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a></td>
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<td>Private company</td>
<td>Exploration</td>
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<td>Dingo Creek</td>
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<td>WA</td>
<td>Manganese</td>
<td>Darraheedy</td>
<td>Gibb River Diamonds Ltd (20%); Alloy Resources (80%)</td>
<td>ASX-listed (GIB; AYR)</td>
<td>Exploration</td>
<td><a href="http://www.gibbriverdiamonds.com">www.gibbriverdiamonds.com</a>; <a href="http://www.alloyres.com">www.alloyres.com</a></td>
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Critical Minerals Projects in Australia 41
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<tr>
<th>State/Territory</th>
<th>Critical Mineral(s)</th>
<th>Project Name</th>
<th>Company Name</th>
<th>Mineral Inventory</th>
<th>Company Ownership</th>
<th>Project Status</th>
<th>Other Information</th>
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<td>WA</td>
<td>Manganese</td>
<td>Earahedy</td>
<td>Rumble Resources Ltd; Zenith Minerals Ltd</td>
<td>4.0 Mt, 20.0% Mn, 801.6 kt Mn.</td>
<td>ASX-listed (RTR; ZNC)</td>
<td>Exploration</td>
<td>rumbleresources.com.au; <a href="http://www.zenithminerals.com.au">www.zenithminerals.com.au</a></td>
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<td>WA</td>
<td>Manganese</td>
<td>Elsa Mary</td>
<td>Sinosteel Midwest Corporation Ltd</td>
<td>0.95 Mt, 21.9% Mn, 207.9 kt Mn.</td>
<td>China SOE</td>
<td>Exploration</td>
<td><a href="http://www.smcl.com.au">www.smcl.com.au</a></td>
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<td>WA</td>
<td>Manganese</td>
<td>Fig Tree</td>
<td>Fortescue Metals Group Ltd</td>
<td>113.0 Mt, 0.01% Mn, 11.3 kt Mn.</td>
<td>ASX-listed (FMG)</td>
<td>Exploration</td>
<td>Magnetitic BIF; <a href="http://www.fmgl.com.au">www.fmgl.com.au</a></td>
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<td>Manganese</td>
<td>Fig Tree - Woodie Woodie</td>
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<td>Consolidated Global Investments Ltd</td>
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<td>Halls Creek</td>
<td>Legacy Iron Ore Ltd</td>
<td>ASX-listed (LCY)</td>
<td>Exploration</td>
<td><a href="http://www.legacyiron.com.au">www.legacyiron.com.au</a></td>
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<td>Peak Hill Manganese Pty Ltd</td>
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<td>Horseshoe Range</td>
<td>Horseshoe Manganese Pty Ltd</td>
<td>0.86 Mt, 20.8% Mn, 178.1 kt Mn.</td>
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<td>Aquila Resources Pty Ltd (50%); American Metals and Coal International Inc (AMCI; 25.5%); Pohang Iron and Steel Co Ltd (POSCO; 24.5%)</td>
<td>63.0 Mt, 0.04% Mn, 25.2 kt Mn.</td>
<td>Exploration</td>
<td><a href="http://www.aquilaresources.com.au">www.aquilaresources.com.au</a>; <a href="http://www.amcigroup.com">www.amcigroup.com</a>; <a href="http://www.posco.com">www.posco.com</a></td>
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<td>Mt Chester</td>
<td>Silver Lake Resources Ltd</td>
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<td>Mt Divide – Woodie Woodie</td>
<td>Consolidated Minerals Pty Ltd</td>
<td>Private company</td>
<td>Exploitation</td>
<td><a href="http://www.consmin.com">www.consmin.com</a></td>
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<td>Mt Fennerty Iron</td>
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<td>4.66 Mt, 0.27% Mn, 12.6 kt Mn.</td>
<td>ASX-listed (MIN)</td>
<td>Exploration</td>
<td><a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a></td>
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<td>WA Manganese</td>
<td>Mt Lucky</td>
<td>Glencore (40%); Glencore via Minara Resources Pty Ltd (60%)</td>
<td>Exploration</td>
<td><a href="http://www.glencore.com.au">www.glencore.com.au</a>; <a href="http://www.minara.com.au">www.minara.com.au</a></td>
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<td>Private company</td>
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<td>WA Manganese</td>
<td>Mt Thirsty</td>
<td>Barra Resources Ltd (50%); Conico Ltd (50%)</td>
<td>ASX-listed (BAR; CNJ)</td>
<td>Exploration</td>
<td><a href="http://www.barraresources.com.au">www.barraresources.com.au</a>; <a href="http://www.conico.com.au">www.conico.com.au</a></td>
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<td>WA Manganese</td>
<td>Nicholas Downs</td>
<td>Hancock Prospecting Pty Ltd</td>
<td>19.5 Mt, 27.17% Mn, 5298.2 kt Mn.</td>
<td>Private company</td>
<td>Care and Maintenance</td>
<td><a href="http://www.hancockprospecting.com.au">www.hancockprospecting.com.au</a></td>
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<td>North Pole</td>
<td>Haoma Mining NL</td>
<td>Exploration</td>
<td><a href="http://www.haoma.com.au">www.haoma.com.au</a></td>
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<td>Exploration</td>
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<td>Forrestania Pty Ltd</td>
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<td>Cazaly Resources Ltd</td>
<td>ASX-listed (CAZ)</td>
<td>Exploration</td>
<td><a href="http://www.cazalyresources.com.au">www.cazalyresources.com.au</a></td>
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<td>FMG Pilbara Pty Ltd</td>
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<td>South Woodie Woodie – Enacheddong Creek</td>
<td>Bardoc Gold Ltd (80%); Planet Mining Pty Ltd (20%)</td>
<td>14.24 Mt, 13.3% Mn, 1897.7 kt Mn.</td>
<td>ASX-listed (BDC); Private company</td>
<td>Exploration</td>
<td><a href="http://www.bardocgold.com.au">www.bardocgold.com.au</a></td>
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<td>West Kundip</td>
<td>Galaxy Resources Ltd</td>
<td>ASX-listed (GXY)</td>
<td>Exploration</td>
<td><a href="http://www.gxy.com">www.gxy.com</a></td>
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<td>Red Hill Iron Ltd (40%); Aquila Resources Pty Ltd (30%); American Metals and Coal International Inc (AMCI; 15.3%); Pohang Iron and Steel Co Ltd (POSCO; 14.7%)</td>
<td>734.0 Mt, 0.025% Mn, 182.6 kt Mn.</td>
<td>ASX-listed (RHI); Private company; Other</td>
<td>Care and Maintenance</td>
<td><a href="http://www.redhilliron.com.au">www.redhilliron.com.au</a> <a href="http://www.aquilaresources.com.au">www.aquilaresources.com.au</a> <a href="http://www.amcigroup.com">www.amcigroup.com</a> <a href="http://www.posco.com">www.posco.com</a></td>
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<td>Woodie Woodie (Mining Corridor)</td>
<td>Consolidated Minerals Pty Ltd</td>
<td>16.98 Mt, 29.0% Mn, 4924.6 kt Mn.</td>
<td>Private company</td>
<td>Producing</td>
<td><a href="http://www.consmin.com">www.consmin.com</a></td>
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<td>Woodlands</td>
<td>Apex Minerals NL (10%); Abra Mining Pty Ltd (90%)</td>
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<td>American Metals and Coal International Inc (AMCI; 50%); Aquila Resources Pty Ltd (50%)</td>
<td>84.3 Mt, 0.06% Mn, 47.8 kt Mn.</td>
<td>Exploration</td>
<td><a href="http://www.amcigroup.com">www.amcigroup.com</a> <a href="http://www.aquilaresources.com.au">www.aquilaresources.com.au</a></td>
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<td>WA</td>
<td>Niobium</td>
<td>Hastings-Brockman</td>
<td>Hastings Technology Metals Ltd</td>
<td>41.4 Mt, 0.359% Nb2O5, 148.8 kt Nb2O5.</td>
<td>ASX-listed (HAS)</td>
<td>Exploration</td>
<td>Alkaline volcanic-hosted deposit</td>
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<td>Project Name</td>
<td>Company Name</td>
<td>Mineral Inventory</td>
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<tr>
<td>WA Niobium</td>
<td>Mt Deans</td>
<td>H A N Stringberg (33.33%); M P Stringberg (33.33%); S H F Stringberg (33.33%)</td>
<td>9.1 Mt, 0.012% Nb2O5, 1.1 kt Nb2O5.</td>
<td>Prospectors</td>
<td>Exploration</td>
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<td>WA Niobium</td>
<td>Mt Weld (Crown)</td>
<td>Lynas Corporation Ltd</td>
<td>37.6 Mt, 1.07% Nb2O5, 403.7 kt Nb2O5.</td>
<td>ASX-listed (LYC)</td>
<td>Exploration</td>
<td>Carbonatite-hosted; undeveloped resource <a href="http://www.lynascorp.com">www.lynascorp.com</a></td>
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<td>WA PGE</td>
<td>Collurabbie</td>
<td>Rox Resources Ltd</td>
<td>0.573 Mt, 0.85 g/t Pt (4871 kg Pt), 1.49 g/t Pd (853.8 kg Pd).</td>
<td>ASX-listed (RXL)</td>
<td>Exploration</td>
<td><a href="http://www.roxresources.com.au">www.roxresources.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Copper Hills</td>
<td>Venus Metals Corporation Ltd</td>
<td></td>
<td>ASX-listed (VMC)</td>
<td>Exploration</td>
<td><a href="http://www.venusmetals.com.au">www.venusmetals.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Duketon</td>
<td>Duketon Mining Ltd</td>
<td>7.64 Mt, 0.255 g/t Pt (1949.2 kg Pt), 0.335 g/t Pd (2560 kg Pd).</td>
<td>ASX-listed (DKM)</td>
<td>Exploration</td>
<td><a href="http://www.duketonmining.com.au">www.duketonmining.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Eastman Bore – Louisa Downs</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Fields Find</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Kalgoorlie Nickel Project – Siberia – Black Range</td>
<td>Ardea Resources Ltd</td>
<td>26.92 Mt, 0.145 g/t Pt (3907.8 kg Pt), 0.146 g/t Pd (3936 kg Pd).</td>
<td>ASX-listed (ARL)</td>
<td>Exploration</td>
<td><a href="http://www.ardearesources.com.au">www.ardearesources.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Lamboo – Edison</td>
<td>Hawthorn Resources Ltd (20%); Thundelarra Ltd (80%)</td>
<td></td>
<td>ASX-listed (HAW; THX)</td>
<td>Exploration</td>
<td><a href="http://www.hawthornresources.com">www.hawthornresources.com</a> <a href="http://www.thundelarra.com">www.thundelarra.com</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Mt Carnage</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Munni Munni</td>
<td>Artemis Resources Ltd (70%); Platina Resources Ltd (30%)</td>
<td>23.6 Mt, 11 g/t Pt (25 960 kg Pt), 1.495 g/t Pd (35 280 kg Pd), 0.1 g/t Rh (2360 kg Rh).</td>
<td>ASX-listed (ARV; PGM)</td>
<td>Exploration</td>
<td><a href="http://www.artemisresources.com.au">www.artemisresources.com.au</a> <a href="http://www.platinaresources.com.au">www.platinaresources.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Munni Munni – East Coast</td>
<td>Global Strategic Metals NL (70%); Legend Mining NL (30%)</td>
<td></td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.legendmining.com.au">www.legendmining.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA PGE</td>
<td>Ora Banda Sill</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
<td></td>
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<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<td>Project Status</td>
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<tr>
<td>WA</td>
<td>PGE</td>
<td>Panton</td>
<td>Panoramic Resources Ltd</td>
<td>14.32 Mt, 2.189 g/t Pt (31,343.7 kg Pt), 2.39 g/t Pd (34,259 kg Pd).</td>
<td>ASX-listed (PAN)</td>
<td>Exploration</td>
<td><a href="http://www.panoramicresources.com">www.panoramicresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Plumridge</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td>N/A</td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Red Billabong</td>
<td>Northern Star Resources Ltd</td>
<td>N/A</td>
<td>ASX-listed (NST)</td>
<td>Exploration</td>
<td><a href="http://www.nsrltd.com">www.nsrltd.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Weld Range Complex</td>
<td>Podium Minerals Ltd</td>
<td>9.8 Mt, 0.511 g/t Pt (5,008 kg Pt), 0.466 g/t Pd (4,570 kg Pd).</td>
<td>ASX-listed (POD)</td>
<td>Exploration</td>
<td><a href="http://www.podiumminerals.com">www.podiumminerals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>West Musgrave</td>
<td>Oz Minerals Ltd (51%); Cassini Resources Ltd (49%)</td>
<td>439.0 Mt, 0.07 g/t Pt (30,916 kg Pt), 0.102 g/t Pd (44,666 kg Pd).</td>
<td>ASX-listed (OZL; CZI)</td>
<td>Exploration</td>
<td><a href="http://www.ozminerals.com">www.ozminerals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Wildara</td>
<td>Minotaur Exploration Ltd</td>
<td>0.6 Mt, 0.5 g/t PGE, 0.3 t PGE.</td>
<td>ASX-listed (MEP)</td>
<td>Exploration</td>
<td><a href="http://www.minotaurexploration.com.au">www.minotaurexploration.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Yarawindah Brook</td>
<td>Cassini Resources Ltd (80%); Souwest Metals Pty Ltd (20%)</td>
<td>2.7 Mt, 0.9 g/t PGE, 2.43 t PGE.</td>
<td>ASX-listed (CZI); Private company</td>
<td>Exploration</td>
<td><a href="http://www.cassiniresources.com.au">www.cassiniresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>PGE</td>
<td>Yuinmery</td>
<td>Redstone Corporation Pty Ltd (Hancock Prospecting) (24.18%); Empire Resources (75.82%)</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td><a href="http://www.hancockprospecting.com.au">www.hancockprospecting.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Browns Range</td>
<td>Northern Minerals Ltd</td>
<td>9.07 Mt, 0.632% TREO, 57.31 kt TREO.</td>
<td>ASX-listed (NTU)</td>
<td>Producing</td>
<td>Hydrothermal vein-hosted; Pilot hydrometallurgical plant on site to produce mixed REE carbonate.</td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Cummins Range</td>
<td>N/A</td>
<td>0.687 Mt, 3.38% TREO, 23.22 kt TREO.</td>
<td>Exploration</td>
<td>Carbonatite-hosted</td>
<td>N/A</td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Cundeelee</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td>Carbonatite-hosted</td>
<td>N/A</td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Hastings-Brockman</td>
<td>Hastings Technology Metals Ltd</td>
<td>41.4 Mt, 0.211% TREO, 87.46 kt TREO.</td>
<td>ASX-listed (HAS)</td>
<td>Exploration</td>
<td>Alkaline volcanic-hosted deposit</td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>John Galt</td>
<td>Northern Minerals Ltd</td>
<td>N/A</td>
<td>ASX-listed (NTU)</td>
<td>Exploration</td>
<td><a href="http://www.northernminerals.com.au">www.northernminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Jungle Well</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td>Kimberlite dyke-hosted</td>
<td>N/A</td>
</tr>
<tr>
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<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Mt Weld</td>
<td>Lynas Corporation Ltd</td>
<td>93.0 Mt, 3.69% TREO, 3428.7 kt TREO.</td>
<td>ASX-listed (LYC)</td>
<td>Producing</td>
<td>Some initial processing (mineral concentration) is undertaken at site, but primary processing is currently undertaken in Malaysia; Note status of Malaysian processing facility is currently subject to regulatory uncertainty. <a href="http://www.lynascorp.com">www.lynascorp.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Ponton</td>
<td>Galaxy Resources Ltd</td>
<td></td>
<td>ASX-listed (GXY)</td>
<td>Exploration</td>
<td><a href="http://www.gxy.com">www.gxy.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Tanami West</td>
<td>Orion Metals Ltd (65.0%); PVW Resources NL (35.0%)</td>
<td></td>
<td>ASX-listed (ORM); Private company</td>
<td>Exploration</td>
<td><a href="http://www.orionmetals.com.au">www.orionmetals.com.au</a>, <a href="http://www.pvwenresources.com.au">www.pvwenresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Trigg Hill</td>
<td>Lithium Australia NL</td>
<td></td>
<td>ASX-listed (LIT)</td>
<td>Exploration</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rare-Earth Elements (Nd, Pr, heavy Rare-Earth Elements)</td>
<td>Yangibana</td>
<td>Hastings Technology Metals Ltd</td>
<td>21.74 Mt, 1.17% TREO, 254.4 kt TREO.</td>
<td>ASX-listed (HAS)</td>
<td>Construction</td>
<td>Carbonatite-hosted <a href="http://www.hastingstechmetals.com">www.hastingstechmetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Rhenium</td>
<td>No known projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential by-product from molybdenite in porphyry- and skarn-related Cu-Mo and W-Mo deposits, of which there are several deposits in WA (Calingiri, Spinifex Ridge, Mt Mulgine).</td>
</tr>
<tr>
<td>WA</td>
<td>Scandium</td>
<td>Black Range</td>
<td>Kalgoorlie Resources Ltd</td>
<td>23.92 Mt, 40.3 g/t Sc, 0.983 kt Sc.</td>
<td>ASX-listed (ARL)</td>
<td>Exploration</td>
<td><a href="http://www.ardearesources.com.au">www.ardearesources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Scandium</td>
<td>Other opportunities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potential by-product in orthomagmatic Ni-Cu deposits, of which there are numerous other examples in WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Arthur River</td>
<td>Private company</td>
<td></td>
<td></td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Arthur River</td>
<td>San Rita Pty Ltd</td>
<td>0.61 Mt, 0.030% Ta2O5, 181.5 t Ta2O5.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Bald Hill</td>
<td>Alliance Mineral Assets Ltd</td>
<td>29.0 Mt, 0.016% Ta2O5, 4875.0 t Ta2O5.</td>
<td>ASX-listed (A40)</td>
<td>Producing</td>
<td><a href="http://www.allianceminerals.com.au">www.allianceminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Beryl Hill</td>
<td>N/A</td>
<td></td>
<td></td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Binneringie</td>
<td>H.A.N Stringberg (50%); S H F Stringberg (50%)</td>
<td>1.58 Mt, 0.015% Ta2O5, 243.0 t Ta2O5.</td>
<td>Prospector</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<td>WA</td>
<td>Tantalum</td>
<td>Bore Creek</td>
<td>MacArthur Minerals Ltd (50.0%) Southern Hemisphere Mining Ltd (50%)</td>
<td></td>
<td>ASX-listed (SUH)</td>
<td>Exploration</td>
<td><a href="http://www.macarthurminerals.com">www.macarthurminerals.com</a>; <a href="http://www.shmining.com.au">www.shmining.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Cobalark</td>
<td>Geological Resources Pty Ltd</td>
<td></td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Dalgaranga</td>
<td>Krakatoa Resources Ltd</td>
<td>0.01 Mt, 0.1% Ta₂O₅, 10.0 t Ta₂O₅.</td>
<td>ASX-listed (KTA)</td>
<td>Exploration</td>
<td><a href="http://www.ktaresources.com">www.ktaresources.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Gascoyne</td>
<td>Lithium Australia NL</td>
<td></td>
<td>ASX-listed (LIT)</td>
<td>Exploration</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Greenbushes</td>
<td>Global Advanced Metals Pty Ltd</td>
<td>335.0 Mt, 0.017% Ta₂O₅, 56 191.8 t Ta₂O₅.</td>
<td>Exploration</td>
<td>Pegmatite-hosted Also contains an undisclosed amount of Ta in the Greenbushes lithium mine (Talison Lithium Australia Pty Ltd). <a href="http://www.globaladvancedmetals.com">www.globaladvancedmetals.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Hastings-Brockman</td>
<td>Hastings Technology Metals Ltd</td>
<td>41.4 Mt, 0.018% Ta₂O₅, 756.0 t Ta₂O₅.</td>
<td>ASX-listed (HAS)</td>
<td>Exploration</td>
<td><a href="http://www.hastingstechmetals.com">www.hastingstechmetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Johnsons Well</td>
<td>Zen Minerals Pty Ltd</td>
<td>0.13 Mt, 0.019% Ta₂O₅, 25.1 t Ta₂O₅.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Kathleen Valley</td>
<td>Liointown Resources Ltd</td>
<td>21.2 Mt, 0.016% Ta₂O₅, 3435.0 t Ta₂O₅.</td>
<td>ASX-listed (LTR)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.ltresources.com.au">www.ltresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Lynas Find</td>
<td>Pilbara Minerals Ltd</td>
<td>5.3 Mt, 0.009% Ta₂O₅, 493.8 t Ta₂O₅.</td>
<td>ASX-listed (PLS)</td>
<td>Exploration</td>
<td>Pegmatite-hosted <a href="http://www.pilbaraminerals.com.au">www.pilbaraminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Moolyella</td>
<td>Duketon Consolidated Pty Ltd (90%); Ultracharge Ltd (10%)</td>
<td>1.90 Mt, 0.002% Ta, 38 t Ta.</td>
<td>ASX-listed (UTR)</td>
<td>Exploration</td>
<td>Pegmatite and associated alluvials <a href="http://www.ultra-charge.net">www.ultra-charge.net</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Mt Cattlin</td>
<td>Galaxy Resources Ltd</td>
<td>11.8 Mt, 0.016% Ta₂O₅, 1878.2 t Ta₂O₅.</td>
<td>ASX-listed (GXY)</td>
<td>Producing</td>
<td>Pegmatite-hosted <a href="http://www.gxy.com">www.gxy.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Mt Deans</td>
<td>H A N Stringberg (33.33%); M P Strindberg (33.33%); S H F Strindberg (33.33%)</td>
<td>9.1 Mt, 0.022% Ta₂O₅, 1963.0 t Ta₂O₅.</td>
<td>Producers</td>
<td>Exploration</td>
<td>Pegmatite-hosted</td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Mt Edon</td>
<td>Sayona Mining Ltd</td>
<td></td>
<td>ASX-listed (SYA)</td>
<td>Exploration</td>
<td><a href="http://www.sayonamining.com.au">www.sayonamining.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Mt Weld (Crown)</td>
<td>Lynas Corporation Ltd</td>
<td>37.6 Mt, 0.025% Ta₂O₅, 9219.0 t Ta₂O₅.</td>
<td>ASX-listed (LYC)</td>
<td>Exploration</td>
<td>Carbonatite-hosted; undeveloped resource <a href="http://www.lynascorp.com">www.lynascorp.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Mungaleena</td>
<td>Attgold Pty Ltd</td>
<td>0.19 Mt, 0.004% Ta₂O₅, 6.7 t Ta₂O₅.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
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<tr>
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<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Niobe – Dalgaranga</td>
<td>Diversity Resources Pty Ltd</td>
<td>0.22 Mt, 0.020% Ta2O5, 43.8 t Ta2O5.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Paynes Find</td>
<td>Private interests (10%)</td>
<td>0.07 Mt, 0.019% Ta2O5, 13.6 t Ta2O5.</td>
<td>Private; ASX-listed (MRC)</td>
<td>Exploration</td>
<td><a href="http://www.mncom.com.au">www.mncom.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Pilangoora</td>
<td>Pilbara Minerals Ltd</td>
<td>207.9 Mt, 0.012% Ta2O5, 24 231 t Ta2O5.</td>
<td>ASX-listed (PLS)</td>
<td>Producing</td>
<td>Pegmatite-hosted <a href="http://www.pilbaraminerals.com.au">www.pilbaraminerals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Shaw River Attgold Pty Ltd</td>
<td>0.20 Mt, 0.008% Ta2O5, 16.2 t Ta2O5.</td>
<td>Private company</td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Shaw River Capital Mining Ltd</td>
<td>0.45 Mt, 0.004% Ta2O5, 19.6 t Ta2O5.</td>
<td></td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Shaw River Haoma Mining NL</td>
<td>0.59 Mt, 0.003% Ta2O5, 17.2 t Ta2O5.</td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.haoma.com.au">www.haoma.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Shaw River – Cooglegong Creek Redstone Corporation Pty Ltd (Hancock Prospecting) (90%); Duketon Consolidated Pty Ltd (10%)</td>
<td>0.33 Mt, 0.007% Ta2O5, 23.8 t Ta2O5.</td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.hancockprospecting.com.au">www.hancockprospecting.com.au</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Smith Bore N A Calder</td>
<td>0.16 Mt, 0.003% Ta2O5, 5.3 t Ta2O5.</td>
<td>Prospector</td>
<td>Exploration</td>
<td>Alluvial</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Tabba Tabba – Strelley</td>
<td>Global Advanced Metals Pty Ltd</td>
<td>0.32 Mt, 0.009% Ta2O5, 29 t Ta2O5.</td>
<td></td>
<td>Exploration</td>
<td><a href="http://www.globaladvancedmetals.com">www.globaladvancedmetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Warra Warra Tantalite</td>
<td>D J Burge (50%); J Burge (50%)</td>
<td>0.01 Mt, 0.018% Ta2O5, 1.98 t Ta2O5.</td>
<td>Prospectors</td>
<td>Exploration</td>
<td>Pegmatite and associated alluvials</td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Western Shaw – Trigg Hill</td>
<td>Lithium Australia NL</td>
<td>0.1 Mt, 0.001% Ta2O5, 1.4 t Ta2O5.</td>
<td>ASX-listed (LIT)</td>
<td>Exploration</td>
<td><a href="http://www.lithium-au.com">www.lithium-au.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tantalum</td>
<td>Wodgina</td>
<td>Mineral Resources Ltd (50%); Albemarle Corporation (50%)</td>
<td>260.2 Mt, 0.016% Ta2O5, 41 994.3 t Ta2O5.</td>
<td>ASX-listed (MIN); US-listed</td>
<td>Producing</td>
<td><a href="http://www.mineralresources.com.au">www.mineralresources.com.au</a> <a href="http://www.albemarle.com">www.albemarle.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Albany Silica Sand</td>
<td>City of Albany</td>
<td>2.713 Mt, 0.42% TiO2, 11 kt TiO2.</td>
<td></td>
<td>Producing</td>
<td>Silica sand</td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Arrowsmith</td>
<td>VRX Silica Ltd</td>
<td>193.6 Mt, 0.2% TiO2, 387 kt TiO2.</td>
<td>ASX-listed (VRX)</td>
<td>Exploration</td>
<td>Silica sand <a href="http://www.ventnorresources.com.au">www.ventnorresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Balla Balla</td>
<td>BBI Group Pty Ltd</td>
<td>455.9 Mt, 13.8% TiO2, 62 955 kt TiO2.</td>
<td></td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.bbig.com.au">www.bbig.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Barrambee</td>
<td>Neometals Ltd</td>
<td>47.2 Mt, 22.2% TiO2, 10 470 kt TiO2.</td>
<td>ASX-listed (NMT)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.neometals.com.au">www.neometals.com.au</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<tr>
<td>WA</td>
<td>Titanium</td>
<td>Canegrass</td>
<td>Bluebird Battery Metals Australia Pty Ltd</td>
<td>79.0 Mt, 6.25% TiO2, 4935 kt TiO2.</td>
<td>TSX-V listed</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.bluebirdbatterymetals.com">www.bluebirdbatterymetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Capel</td>
<td>Iluka Resources Ltd</td>
<td>0.673 Mt, 0.149% TiO2, 1 kt TiO2.</td>
<td>ASX-listed (ILU)</td>
<td>Producing</td>
<td>Heavy mineral sand deposit <a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Cashmere Downs</td>
<td>Cashmere Iron Ltd</td>
<td>3.4 Mt, 0.1% TiO2, 3 kt TiO2.</td>
<td>Exploration</td>
<td>Channel IF</td>
<td><a href="http://www.cashmereiron.com">www.cashmereiron.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Cyclone</td>
<td>Diatreme Resources Ltd</td>
<td>3.54 Mt, 22.0% Ti, 778.8 kt Ti.</td>
<td>ASX-listed (DRX)</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.diatreme.com.au">www.diatreme.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Fig Tree</td>
<td>Fortescue Metals Group Ltd</td>
<td>113.0 Mt, 0.08% TiO2, 90 kt TiO2.</td>
<td>ASX-listed (FMG)</td>
<td>Exploration</td>
<td>Magnetitic BIF <a href="http://www.fmgl.com.au">www.fmgl.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Irvine Island</td>
<td>Pluton Resources Ltd</td>
<td>543.0 Mt, 0.2% TiO2, 1067 kt TiO2.</td>
<td>Exploration</td>
<td>Magnetitic BIF</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Mindjup</td>
<td>Mindjup Sand Mining Pty Ltd</td>
<td>3.3 Mt, 0.2% TiO2, 7 kt TiO2.</td>
<td>Exploration</td>
<td>Silica sand</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Mindjup</td>
<td>T T Sand Pty Ltd</td>
<td>22.2 Mt, 0.04% TiO2, 8 kt TiO2.</td>
<td>Producing</td>
<td>Silica sand; JV between Tochu Corporation Ltd and Toyota Tsusho (Sydney) Pty Ltd</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Mt Padbury</td>
<td>Sinosteel Ocean Capital Pty Ltd</td>
<td>13.3 Mt, 0.1% TiO2, 17 kt TiO2.</td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Mt Weld (Crown)</td>
<td>Lynas Corporation Ltd</td>
<td>37.6 Mt, 4.0% TiO2, 1509 kt TiO2.</td>
<td>ASX-listed (LYC)</td>
<td>Exploration</td>
<td>Carbonatite-hosted; undeveloped resource <a href="http://www.lynascorp.com">www.lynascorp.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Ophthalmia</td>
<td>Brockman Mining Ltd via Brockman Mining Australia Pty Ltd</td>
<td>217.0 Mt, 0.15% TiO2, 319 kt TiO2.</td>
<td>ASX-listed (BCK)</td>
<td>Exploration</td>
<td><a href="http://www.brockmanmining.com">www.brockmanmining.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<tr>
<td>WA</td>
<td>Titanium</td>
<td>Speewah</td>
<td>King River Resources Ltd</td>
<td>4,712.0 Mt, 1.983% Ti, 93 451 kt Ti.</td>
<td>ASX-listed (KRR)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.kingriverresources.com.au">www.kingriverresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Unaly Hill</td>
<td>Surefire Resources NL</td>
<td>88.2 Mt, 4.5% TiO2, 38,888 kt TiO2.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td><a href="http://www.surefrereresources.com.au">www.surefrereresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Victory Bore</td>
<td>High Grade Metals Ltd</td>
<td>151.0 Mt, 8.7% TiO2, 10 162 kt TiO2.</td>
<td>ASX-listed (HGM)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.highgrademetals.com.au">www.highgrademetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Weld Range Iron Ore</td>
<td>Sinosteel Midwest Corporation Ltd</td>
<td>20.0 Mt, 0.1% TiO2, 20 kt TiO2.</td>
<td>China SOE</td>
<td>Exploration</td>
<td>Magnetic BIF <a href="http://www.smcl.com.au">www.smcl.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Yarraloola</td>
<td>Coziron Resources Ltd</td>
<td>93.3 Mt, 0.15% TiO2, 136 kt TiO2.</td>
<td>ASX-listed (CZR)</td>
<td>Exploration</td>
<td><a href="http://www.coziron.com">www.coziron.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Youanmi Vanadium</td>
<td>Venus Metals Corporation Ltd</td>
<td>330.6 Mt, 5.95% TiO2, 19 672 kt TiO2.</td>
<td>ASX-listed (VMC); Prospector</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.venusmetals.com.au">www.venusmetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Australind TiO2 Pigment plant</td>
<td>Cristal Pigment Australia Ltd</td>
<td></td>
<td>Producing</td>
<td></td>
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</tr>
<tr>
<td>WA</td>
<td>Titanium</td>
<td>Kemerton TiO2 Pigment Plant</td>
<td>Cristal Pigment Australia Ltd</td>
<td></td>
<td>Producing</td>
<td></td>
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</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Big Hill – Cookes Creek</td>
<td>Tungsten Mining NL</td>
<td>11.5 Mt, 0.146% WO3, 16.8 kt WO3.</td>
<td>ASX-listed (TGN)</td>
<td>Exploration</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Callie Soak</td>
<td>Tungsten Mining NL</td>
<td>0.186 Mt, 0.33% WO3, 0.614 kt WO3.</td>
<td>ASX-listed (TGN)</td>
<td>Exploration</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Kilba Tungsten / Tungsten Mining</td>
<td>Tungsten Mining NL</td>
<td>4.98 Mt, 0.244% WO3, 12.12 kt WO3.</td>
<td>ASX-listed (TGN)</td>
<td>Exploration</td>
<td><a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Koolyanobbing</td>
<td>N/A</td>
<td></td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Loves Find</td>
<td>J S Macdonald</td>
<td></td>
<td>Prospector</td>
<td>Exploration</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>Mt Mulgine Tungsten</td>
<td>Tungsten Mining NL</td>
<td>70.9 Mt, 0.175% WO3, 124.3 kt WO3.</td>
<td>ASX-listed (TGN)</td>
<td>Exploration</td>
<td>Skarn-greisen <a href="http://www.tungstenmining.com">www.tungstenmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Tungsten</td>
<td>O&quot;Callaghans</td>
<td>Newcrest Mining Ltd</td>
<td>78.0 Mt, 0.330% WO3, 257.1 kt WO3.</td>
<td>ASX-listed (NCM)</td>
<td>Exploration</td>
<td>Skarn <a href="http://www.newcrest.com.au">www.newcrest.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Balla Balla</td>
<td>BBI Group Pty Ltd</td>
<td>455.9 Mt, 0.655% V2O5, 298.7 kt V2O5.</td>
<td>Private company</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.bbig.com.au">www.bbig.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Barrambie</td>
<td>Neometals Ltd</td>
<td>47.2 Mt, 0.624% V2O5, 294.8 kt V2O5.</td>
<td>ASX-listed (NMT)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.neometals.com.au">www.neometals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Buddadoo</td>
<td>Budf Pty Ltd (15%); Coziron Resources Ltd (85%)</td>
<td></td>
<td>Private company; ASX-listed (CIZ)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.coziron.com">www.coziron.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
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<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Canegrass</td>
<td>Bluebird Battery Metals Australia Pty Ltd</td>
<td>79.0 Mt, 0.62% V2O5, 503.4 kt V2O5.</td>
<td>TSX-V listed</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.bluebirdbatterymetals.com">www.bluebirdbatterymetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Coates</td>
<td>Australian Vanadium Ltd</td>
<td>683.1 Mt, 0.576% V2O5, 3,934.4 kt V2O5.</td>
<td>ASX-listed (AVL)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.australianvanadium.com.au">www.australianvanadium.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Dean</td>
<td>Thundelarra Ltd</td>
<td>119.9 Mt, 0.82% V2O5, 998.8 kt V2O5.</td>
<td>ASX-listed (THX)</td>
<td>Exploration</td>
<td><a href="http://www.thundelarra.com">www.thundelarra.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Gabanintha</td>
<td>Australian Vanadium Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (AVL)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.australianvanadium.com.au">www.australianvanadium.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Katanning</td>
<td>N/A</td>
<td>N/A</td>
<td>Exploration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Medcalf - Bremer Range</td>
<td>Audalia Resources Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (ACP)</td>
<td>Exploration</td>
<td><a href="http://www.audalia.com.au">www.audalia.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Minigwal</td>
<td>AngloGold Ashanti Australia Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (AGG)</td>
<td>Exploration</td>
<td><a href="http://www.anglogoldashanti.com">www.anglogoldashanti.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Musgrave - Jameson</td>
<td>97992001 Pty Ltd (50%); Gibb River Diamonds Ltd (50%)</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (KRR)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.kingriverresources.com.au">www.kingriverresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Speewah</td>
<td>King River Resources Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td><a href="http://www.queenvalley.com.au">www.queenvalley.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Unaly Hill</td>
<td>Surefire Resources NL</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td><a href="http://www.surefireresources.com.au">www.surefireresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Victory Bore</td>
<td>High Grade Metals Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.highgrademetals.com.au">www.highgrademetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Windimurra</td>
<td>Atlantic Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.atlanticptyltd.com.au">www.atlanticptyltd.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Vanadium</td>
<td>Youanmi</td>
<td>Venus Metals Corporation Ltd (90%); B R Legendre (10%)</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (SRN)</td>
<td>Exploration</td>
<td>V-Ti magnetite in mafic intrusion <a href="http://www.venusmetals.com.au">www.venusmetals.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Hafnium</td>
<td>Hastings-Brockman</td>
<td>Hastings Technology Metals Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (HAS)</td>
<td>Exploration</td>
<td>Alkaline volcanic-hosted deposit <a href="http://www.hastingstechmetals.com">www.hastingstechmetals.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Hafnium</td>
<td>Other opportunities</td>
<td></td>
<td></td>
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<td></td>
<td>Potential by-product from zircon in heavy mineral sand deposits, of which there are many in WA.</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Hastings-Brockman</td>
<td>Hastings Technology Metals Ltd</td>
<td>31.8 Mt, 0.451% V2O5, 143.3 kt V2O5.</td>
<td>ASX-listed (HAS)</td>
<td>Exploration</td>
<td>Alkaline volcanic-hosted deposit <a href="http://www.hastingstechmetals.com">www.hastingstechmetals.com</a></td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
<td>Company Name</td>
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<td>Company Ownership</td>
<td>Project Status</td>
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<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Mt Weld</td>
<td>Lynas Corporation Ltd</td>
<td>3.76 Mt, 30% ZrO2, 113.1 kt ZrO2.</td>
<td>ASX-listed (LYC)</td>
<td>Exploration</td>
<td><a href="http://www.lynascorp.com">www.lynascorp.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Bidaminna – North Perth Basin</td>
<td>Image Resources NL; A R F Maslin</td>
<td>1.35 Mt, 5.4% zircon, 73 kt zircon.</td>
<td>ASX-listed (IMA); Prospector</td>
<td>Exploration</td>
<td><a href="http://www.imageres.com.au">www.imageres.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Boonanarring – North Perth Basin</td>
<td>Image Resources NL</td>
<td>3.98 Mt, 14.3% zircon, 567.6 kt zircon.</td>
<td>ASX-listed (IMA)</td>
<td>Producing</td>
<td><a href="http://www.imageres.com.au">www.imageres.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Bunbury Area Operations</td>
<td>Cristal Mining Australia Ltd</td>
<td>3.735 Mt, 9.4% zircon, 3507.3 kt zircon.</td>
<td>Producing</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Bunker Bay</td>
<td>N/A</td>
<td>0.54 Mt, 3.5% zircon, 18.9 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Busselton</td>
<td>Doral Mineral Sands Pty Ltd</td>
<td>0.53 Mt, 12.9% zircon, 68.7 kt zircon.</td>
<td>Producing</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.doral.com.au">www.doral.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Capel</td>
<td>Iuka Resources Ltd</td>
<td>9.91 Mt, 8.8% zircon, 872.5 kt zircon.</td>
<td>ASX-listed (ILU)</td>
<td>Producing</td>
<td><a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Capel – Stratham</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.1 Mt, 4.3% zircon, 4.2 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Cataby</td>
<td>Iuka Resources Ltd</td>
<td>13.79 Mt, 8.4% zircon, 1164.0 kt zircon.</td>
<td>ASX-listed (ILU)</td>
<td>Producing</td>
<td><a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Coburn Zircon</td>
<td>Strandline Resources Ltd</td>
<td>19.6 Mt, 21.7% zircon, 4246.0 kt zircon.</td>
<td>ASX-listed (STA)</td>
<td>Exploration</td>
<td><a href="http://www.strandline.com.au">www.strandline.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Cookernup</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.42 Mt, 9.9% zircon, 41.8 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Cooljarloo</td>
<td>Tronox Ltd</td>
<td>4.39 Mt, 9.5% zircon, 432 kt zircon.</td>
<td>Producing</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.tronox.com">www.tronox.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Cooljarloo West</td>
<td>Tronox Ltd</td>
<td>2.13 Mt, 12.2% zircon, 259.3 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.tronox.com">www.tronox.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Coolup Mineral Sands</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.34 Mt, 7.9% zircon, 271 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Cyclone</td>
<td>Diatreme Resources Ltd</td>
<td>4.7 Mt, 27.0% zircon, 1269.0 kt zircon.</td>
<td>ASX-listed (DRX)</td>
<td>Exploration</td>
<td><a href="http://www.diatreme.com.au">www.diatreme.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Denmark</td>
<td>N/A</td>
<td>0.21 Mt, 5.0% zircon, 10.5 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Dongara</td>
<td>Tronox Ltd</td>
<td>3.36 Mt, 11.3% zircon, 372.9 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td><a href="http://www.tronox.com">www.tronox.com</a></td>
</tr>
<tr>
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<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Eneabba</td>
<td>Iluka Resources Ltd</td>
<td>28.13 Mt, 11.3% zircon, 3177.5 kt zircon.</td>
<td>ASX-listed (ILU)</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Eneabba</td>
<td>Sheffield Resources Ltd</td>
<td>5.72 Mt, 12.3% zircon, 703.2 kt zircon.</td>
<td>ASX-listed (SFX)</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.sheffieldresources.com.au">www.sheffieldresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Eucla West</td>
<td>Forge Resources Crown Pty Ltd (50%); Westover Holdings Pty Ltd (25%); Wild Side (WA) Pty Ltd (25%)</td>
<td>21.5 Mt, 0.5% zircon, 107.5 kt zircon.</td>
<td>Private companies</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Gilmore</td>
<td>Iluka Resources Ltd</td>
<td>3.11 Mt, 7.8% zircon, 241.8 kt zircon.</td>
<td>ASX-listed (ILU)</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Glenarty Creek</td>
<td>N/A</td>
<td>3.88 Mt, 2.0% zircon, 77.5 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Gordon Inlet</td>
<td>N/A</td>
<td>0.37 Mt, 19.7% zircon, 72.9 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Hassell Beach</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.53 Mt, 24.0% zircon, 127.2 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Hopelands East</td>
<td>Cristal Mining Australia Ltd</td>
<td>1.99 Mt, 9.0% zircon, 178.7 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Hopeland West – Serpentine</td>
<td>N/A</td>
<td>1.55 Mt, 7.9% zircon, 122.8 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Israelite Bay</td>
<td>N/A</td>
<td>0.50 Mt, 14.0% zircon, 70.0 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>James Price Point</td>
<td>N/A</td>
<td>0.02 Mt, 11.0% zircon, 2.2 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Jangardup</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.09 Mt, 8.0% zircon, 7.2 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Jangardup</td>
<td>Strategic Energy Resources Ltd</td>
<td>2.64 Mt, 10.0% zircon, 2641.1 kt zircon.</td>
<td>ASX-listed (SER)</td>
<td>探索</td>
<td><a href="http://www.strategicenergy.com.au">www.strategicenergy.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Kemerton – Australind</td>
<td>Cristal Mining Australia Ltd</td>
<td>1.13 Mt, 5.0% zircon, 56.6 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td><a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Keysbrook</td>
<td>MZI Resources Ltd</td>
<td>2.8 Mt, 13.0% zircon, 364.4 kt zircon.</td>
<td>ASX-listed (MZI)</td>
<td>生产</td>
<td><a href="http://www.mzi.com.au">www.mzi.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Leschenault Peninsula</td>
<td>N/A</td>
<td>0.50 Mt, 2.0% zircon, 10.1 kt zircon.</td>
<td>探索</td>
<td>探索</td>
<td>重矿物砂矿床</td>
</tr>
<tr>
<td>State/Territory</td>
<td>Critical Mineral(s)</td>
<td>Project Name</td>
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<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Ludlow Tuart Forest National Park</td>
<td>WA Department of Lands</td>
<td>0.51 Mt, 5.0% zircon, 25.5 kt zircon.</td>
<td>N/A</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>McCalls</td>
<td>Sheffield Resources Ltd</td>
<td>84.0 Mt, 4.7% zircon, 3956.2 kt zircon.</td>
<td>ASX-listed (SFX)</td>
<td>Exploration</td>
<td><a href="http://www.sheffieldresources.com.au">www.sheffieldresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Pinjarra</td>
<td>Doral Pty Ltd</td>
<td>0.92 Mt, 6.0% zircon, 55.2 kt zircon.</td>
<td>100% owned by Japan-based Iwatani Corporation</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.doral.com.au">www.doral.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Port Gregory Garnet</td>
<td>GMA Garnet Pty Ltd</td>
<td>1.18 Mt, 0.08% zircon, 0.9 kt zircon.</td>
<td>Producing</td>
<td>Heavy mineral sand deposit <a href="http://www.gmagarnet.com">www.gmagarnet.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Regans Ford</td>
<td>Image Resources NL</td>
<td>0.95 Mt, 10.0% zircon, 95.4 kt zircon.</td>
<td>ASX-listed (IMA)</td>
<td>Exploration</td>
<td><a href="http://www.imageresources.com.au">www.imageresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Scott Coastal Plain – Governor Broome</td>
<td>Astro Resources NL; Iluka Resources Ltd</td>
<td>0.89 Mt, 10.8% zircon, 98.1 kt zircon.</td>
<td>ASX-listed (ARO; ILU)</td>
<td>Exploration</td>
<td><a href="http://www.sheffieldresources.com.au">www.sheffieldresources.com.au</a> <a href="http://www.aro.com.au">www.aro.com.au</a> <a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Scott River</td>
<td>Cristal Mining Australia Ltd</td>
<td>7.02 Mt, 4.0% zircon, 280.8 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Telfer East</td>
<td>N/A</td>
<td>0.12 Mt, 3.0% zircon, 3.6 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Thunderbird – Dampier Mineral Sands</td>
<td>Sheffield Resources Ltd</td>
<td>223.0 Mt, 8.3% zircon, 18 552.0 kt zircon.</td>
<td>ASX-listed (SFX)</td>
<td>Construction</td>
<td>Heavy mineral sand deposit <a href="http://www.sheffieldresources.com.au">www.sheffieldresources.com.au</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Waroona – Harvey</td>
<td>Iluka Resources Ltd</td>
<td>1.7 Mt, 7.2% zircon, 122.7 kt zircon.</td>
<td>ASX-listed (ILU)</td>
<td>Exploration</td>
<td><a href="http://www.iluka.com">www.iluka.com</a></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Whicher</td>
<td>Cristal Mining Australia Ltd</td>
<td>0.71 Mt, 12.2% zircon, 86.3 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit <a href="http://www.cristalmining.com">www.cristalmining.com</a></td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Whitby</td>
<td>Gold Fusion Pty Ltd</td>
<td>7.23 Mt, 6.5% zircon, 487 kt zircon.</td>
<td>Private company</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Witchcliffe</td>
<td>Strategic Sands Pty Ltd</td>
<td>9.44 Mt, 3.0% zircon, 283.3 kt zircon.</td>
<td>Private company</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Woodlands – Ensor</td>
<td>N/A</td>
<td>1.25 Mt, 2.2% zircon, 27.4 kt zircon.</td>
<td>Exploration</td>
<td>Heavy mineral sand deposit</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Zirconium</td>
<td>Rockingham zirconia plant</td>
<td>Halliburton Australia Pty Ltd</td>
<td>Producing</td>
<td>Processing plant</td>
<td></td>
<td></td>
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</table>