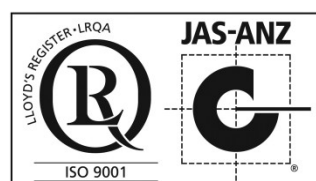


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ORE Pty Ltd is accredited to ISO 9001:2008 by Lloyd's Register Quality Assurance Ltd for its quality management system including development, manufacturing, certification and supply of CRMs.

Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>BLANK CRMs (pulp)</u></b>					
Quartz matrix blank (multi-element)	<a href="#">OREAS 22e*</a>	Au <1ppb; Cu, Ni, Pb, Zn all <10ppm	see certificate	10 / 60 / 1000	
Basalt lithogeochem blank	<a href="#">OREAS 24c**</a>	Au <1ppb; Cu 48.6ppm; Ni 138ppm	see certificate	10 / 60 / 1000	
Granodiorite matrix blank (multi-element)	<a href="#">OREAS 23a*</a>	Au 3ppb; Cu 42ppm; Ni 41ppm; Pb 21ppm	see certificate	10	
Granodiorite lithogeochem (FA, full ICP suites, AR, 4A, Fus-ICP, Fus-XRF, etc)	<a href="#">OREAS 24b**</a>	Au <3ppb; Cu 38.0ppm; Pb 23.1ppm	see certificate	10 / 60 / 1000	
Soil lithogeochem blank	<a href="#">OREAS 25a**</a>	Au <2ppb; Cu 33.9ppm; Pb 25.2ppm	see certificate	10 / 60 / 1000	
<b><u>BLANK CRMs (chip – nominal minus 6 mm)</u></b>					
Basalt chip lithogeochem blank	<a href="#">OREAS 26a*</a>	Au <1ppb; Cu 50ppm; Pb 2.73ppm	see certificate	500g 20kg 200kg	
Basalt chip lithogeochem blank	<a href="#">OREAS 26b*</a>	Au <1ppb; Cu 44ppm; FeO 10.35%	see certificate	1kg 20kg 200kg	
Rhyodacite chip lithogeochem blank	<a href="#">OREAS 27*</a>	Au <1ppb; Cu 4.6ppm; Pb 25ppm	see certificate	500g 20kg 200kg	
Rhyodacite chip lithogeochem blank	<a href="#">OREAS 27b*</a>	Au <1ppb; Cu 5.6ppm; Pb 26ppm	see certificate	500g 20kg 200kg	
<b><u>MULTI-ELEMENT GEOCHEM CRMs (pulp)</u></b>					
Anomalous ferruginous soil (FA, full ICP scans, AR, 4A, Fus-ICP, Fus-XRF, etc)	<a href="#">OREAS 45d**</a>	Au 23ppb; Pd 35ppb; Pt 48ppb; Cu 371ppm; Ni 231ppm; Cr 549ppm	see Certificate	10 / 60 / 500	
Anomalous ferruginous soil (FA, full ICP scans, AR, 4A, Fus-ICP, Fus-XRF, etc)	<a href="#">OREAS 45e**</a>	Au 53ppb; Pd 75ppb; Pt 110ppb; Cu 780ppm; Ni 454ppm; Cr 979ppm	see Certificate	10 / 60 / 500	
<b><u>GOLD, GOLD-COPPER &amp; GOLD-SILVER CRMs (pulp)</u></b>					
Copper ore (argillaceous sandstones)	<a href="#">OREAS 903**</a>	Aqua Regia Au <5ppb; Cu 0.652%; CuSol 0.434%	see certificate	10 / 60 / 1000	
Anomalous gold (lateritic)	<a href="#">OREAS H1*</a>	Au 12ppb; Cu 28ppm	1ppb; 1.5ppm	60 / 500	
Copper ore (argillaceous sandstones)	<a href="#">OREAS 904**</a>	Au 45ppb; Cu 0.612%; CuSol 0.519%	see certificate	10 / 60 / 500	
Anomalous gold (lateritic)	<a href="#">OREAS H5*</a>	Au 47ppb; Cu 99ppm	6ppb; 5.5ppm	60 / 500	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 906**</a>	Au 49ppb; Cu 0.310%; CuSol 0.259%	see certificate	10 / 60 / 100 / 500	

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<sup>\*</sup>see certificates for additional certified elements; <sup>\*\*</sup>SuperCRM® - full ICP-OES and ICP-MS suite certification.

Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>GOLD, GOLD-COPPER &amp; GOLD-SILVER CRMs (pulp) continued</u></b>					
Copper-gold ore (quartz monzonite porphyry)	<a href="#">OREAS 151b*</a>	Au 65ppb; Cu 0.182%	6ppb; 0.005%	60 / 500	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 907**</a>	Au 100ppb; Cu 0.638%; CuSol 0.533%	see certificate	10 / 60 / 100 / 500	
Copper-gold ore (quartz monzonite porphyry)	<a href="#">OREAS 152b*</a>	Au 132ppb; Cu 0.375%	5ppb; 0.008%	60 / 500	
Iron oxide copper-gold ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 520**^</a>	Au 176ppb; Cu 0.293%; Co 203ppm	see certificate	10 / 60 / 100 / 500	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 908**</a>	Au 187ppb; Cu 1.26%; CuSol 1.06%	see certificate	10 / 60 / 100 / 500	
Gold-copper ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 59a**^</a>	Au 191ppb; Cu 0.344%; Fe 17.9%; Mo 80ppm; Co 743ppm	see certificate	50	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 600**</a>	Au 200ppb; Ag 24.8ppm; Cu 482ppm	6ppb; 1.01ppm; 22.6ppm	10 / 60 / 1000	
Copper-gold-molybdenum ore (quartz monzonite porphyry)	<a href="#">OREAS 501b**</a>	Au 248ppb; Cu 0.260%; Mo 99ppm	see certificate	10 / 60 / 1000	
Gold-copper ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 59b**^</a>	Au 303ppb; Cu 0.576%; Fe 20.0%; Mo 123ppm; Co 892ppm	see certificate	50	
Gold oxide ore (weathered greenstone)	<a href="#">OREAS 250*</a>	Au 309ppb; Cu 44.7ppm	13ppb; 1.3ppm	60 / 1000	
Copper-gold ore (quartz monzonite porphyry)	<a href="#">OREAS 153b*</a>	Au 313ppb; Cu 0.678%	9ppb; 0.015%	60 / 500	
<del>Gold ore (metasediments/basalt)</del> <b>**Replacement coming soon**</b>	<a href="#">OREAS 200**</a>	<del>Au 0.340ppm</del>	<del>0.012ppm</del>	<del>60 / 1000</del>	
Iron oxide copper-gold ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 521**^</a>	Au 376ppb; Cu 0.607%; Co 386ppm	see certificate	10 / 60 / 100	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 905**</a>	Au 391ppb; Cu 0.153%; CuSol 0.127%	see certificate	10 / 60 / 100 / 500	
Copper-gold-molybdenum ore (quartz monzonite porphyry)	<a href="#">OREAS 502b**</a>	Au 495ppb; Cu 0.773%; Mo 238ppm	see certificate	10 / 60 / 1000	
Gold oxide ore (weathered greenstone)	<a href="#">OREAS 251*</a>	Au 0.504ppm; Cu 47.5ppm	15ppb; 2.4ppm	60 / 1000	
Iron oxide copper-gold ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 522**^</a>	Au 0.574ppm; Cu 0.916%; Co 550ppm	see certificate	10 / 60 / 100	
Gold-copper ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 59c**^</a>	Au 0.595ppm; Cu 1.02%; Fe 19.9%; Mo 181ppm; Co 749ppm	see certificate	50	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>GOLD, GOLD-COPPER &amp; GOLD-SILVER CRMs (pulp) continued</u></b>					
Gold oxide ore (weathered greenstone)	<a href="#">OREAS 252*</a>	Au 0.674ppm; Cu 49.4ppm	22ppb; 2.8ppm	60 / 1000	
Copper-gold-molybdenum ore (quartz monzonite porphyry)	<a href="#">OREAS 503b**</a>	Au 0.695ppm; Cu 0.531%; Mo 319ppm	see certificate	10 / 60 / 1000	
Gold ore (metasediments/basalt)	<a href="#">OREAS 202*</a>	Au 0.752ppm	0.026ppm	60 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 601**</a>	Au 0.780ppm; Ag 49.2ppm; Cu 0.101%	0.031ppm; 2.02ppm; 0.004%	10 / 60 / 1000	
Gold-copper ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 59d**^</a>	Au 0.801ppm Cu 1.47% Fe 26.8% Mo 310ppm Co 899ppm	see certificate	50	
Gold ore (metasediments/basalt)	<a href="#">OREAS 203*</a>	Au 0.871ppm	0.030ppm	60 / 1000	
Iron oxide copper-gold ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 523**^</a>	Au 1.04ppm; Cu 1.72%; Co 728ppm	see certificate	10 / 60 / 100	
Gold ore (metasediments/basalt) <b>**Replacement coming soon**</b>	<a href="#">OREAS 205*</a>	Au 1.244ppm	<del>0.053ppm</del>	<del>60</del>	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 604**^</a>	Au 1.43ppm; Ag 488ppm; Cu 2.16%	0.055ppm; 14.6ppm; 0.049%	10 / 60	
Iron oxide copper-gold ore (IOCG felsic volcanic breccia)	<a href="#">OREAS 524**^</a>	Au 1.54ppm; Cu 2.53%; Co 728ppm	see certificate	10 / 60 / 100	
Gold ore (metasediments/basalt)	<a href="#">OREAS 15d</a>	Au 1.56ppm	0.04ppm	1000	
Gold ore (metasediments/basalt)	<a href="#">OREAS 209*</a>	Au 1.58ppm	0.044ppm	60 / 1000	
Copper-gold-molybdenum ore (quartz monzonite porphyry)	<a href="#">OREAS 504b**</a>	Au 1.61ppm; Cu 1.11%; Mo 499ppm	see certificate	10 / 60 / 500	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 605**^</a>	Au 1.67ppm; Ag 965ppm; Cu 5.02%	0.086ppm; 25.2ppm; 0.152%	10 / 60	
Gold ore (metasediments/basalt)	<a href="#">OREAS 16a</a>	Au 1.81ppm	0.06ppm	1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 602**^</a>	Au 1.95ppm; Ag 120ppm; Cu 0.515%	0.066ppm; 5.0ppm; 0.017%	10 / 60	
Gold ore (metasediments/basalt)	<a href="#">OREAS 206*</a>	Au 2.197ppm	0.081ppm	60 / 1000	
Gold-silver ore (epithermal meta-andesite)	<a href="#">OREAS 60c*</a>	Au 2.47ppm Ag 4.87ppm	0.08ppm 0.22ppm	60 / 500	
Gold ore (weathered greenstone/scoria)	<a href="#">OREAS 254*</a>	Au 2.55ppm	0.08ppm	60 / 100 1000	
Gold ore (greenstone-hosted orogenic lode)	<a href="#">OREAS 214</a>	Au FA 3.03ppm Au AR 2.92ppm	0.08ppm 0.09ppm	60 / 100 500	
Gold ore (metasediments/basalt)	<a href="#">OREAS 17c</a>	Au 3.04ppm	0.08ppm	1000	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><i>GOLD, GOLD-COPPER &amp; GOLD-SILVER CRMs (pulpes) continued</i></b>					
Gold ore (greenstone-hosted orogenic lode)	<a href="#">OREAS 215</a>	Au FA 3.54ppm Au AR 3.41ppm	0.10ppm 0.13ppm	60 / 100 500	
Gold ore (weathered greenstone/scoria)	<a href="#">OREAS 255*</a>	Au 4.08ppm	0.09ppm	60 / 100 1000	
Gold-silver ore (epithermal meta-andesite)	<a href="#">OREAS 61e*</a>	Au 4.43ppm Ag 5.27ppm	0.15ppm 0.43ppm	60 / 500	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 603**^</a>	Au 5.18ppm; Ag 284ppm; Cu 1.00%	0.15ppm; 15.9ppm; 0.034%	10 / 60	
Gold ore (metasediments/basalt)	<a href="#">OREAS 210*^</a>	Au 5.49ppm	0.152ppm	60	
Gold ore (greenstone-hosted orogenic lode)	<a href="#">OREAS 216</a>	Au FA 6.66ppm Au AR 6.53ppm	0.16ppm 0.20ppm	60 / 100 500	
Gold ore (weathered greenstone/scoria)	<a href="#">OREAS 256*</a>	Au 7.66ppm	0.24ppm	60 / 100 1000	
Gold-silver ore (epithermal meta-andesite)	<a href="#">OREAS 62e*</a>	Au 9.13ppm Ag 9.86ppm	0.41ppm 0.34ppm	60 / 500	
Gold ore (metasediments/basalt)	<a href="#">OREAS 208*^</a>	Au 9.248ppm	0.438ppm	100	
Gold ore (weathered greenstone)	<a href="#">OREAS 257*</a>	Au 14.18ppm	0.26ppm	60 / 100 1000	
<b><i>GOLD CHIP CRMs (-3mm)</i></b>					
Gold ore (greywacke)	<a href="#">OREAS 6Ca</a>	Au 1.48ppm	0.104	500	
Gold ore (greywacke)	<a href="#">OREAS 7Ca</a>	Au 2.54ppm	0.159	500	
<b><i>COPPER CRMs (pulpes)</i></b>					
Barren shale/siliceous dolomite	<a href="#">OREAS 160*</a>	Cu 13ppm	2ppm	10	
Cu-bearing siltstone	<a href="#">OREAS 920**</a>	Cu 112ppm	4ppm	10 / 500	
Cu-bearing siltstone	<a href="#">OREAS 91*</a>	Cu 265ppm	13ppm	10	
Cu-bearing siltstone	<a href="#">OREAS 921**</a>	Cu 274ppm	9ppm	10 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 600**</a>	Cu 482ppm; Au 200ppb; Ag 24.8ppm	22.6ppm; 6ppb; 1.01ppm	10 / 60 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 601**</a>	Cu 0.101%; Au 0.780ppm; Ag 49.2ppm	0.004%; 0.031ppm; 2.02ppm	10 / 60 / 1000	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>COPPER CRMs (pulpes) continued</u></b>					
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 905**</a>	Cu 0.153%; CuSol 0.127%; Au 391ppb	see certificate	10 / 60 / 100 / 500	
Massive sulphide low grade ore breccia	<a href="#">OREAS 110*^</a>	Cu 0.160%	0.005%	10	
Copper ore (sediment-hosted)	<a href="#">OREAS 922**</a>	Cu 0.212%	0.0086%	10 / 1000	
Copper low grade ore argillaceous sandstone	<a href="#">OREAS 902**</a>	Cu 0.301% Cu-Sol 0.111%	0.008% 0.011%	10 / 1000	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 906**</a>	Cu 0.310%; CuSol 0.259%; Au 49ppb	see certificate	10 / 60 / 100 / 500	
Cu sulphide low grade ore (sed-hosted)	<a href="#">OREAS 161*^</a>	Cu 0.400%	0.013%	10	
Copper ore (sediment-hosted)	<a href="#">OREAS 923**</a>	Cu 0.423%	0.0086%	10 / 1000	
Copper ore (sediment-hosted)	<a href="#">OREAS 924**</a>	Cu 0.512%	0.028%	10 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 602**^</a>	Cu 0.515%; Au 1.95ppm; Ag 120ppm	0.017%; 0.066ppm; 5.0ppm	10 / 60	
Copper (gold) ore argillaceous sandstones	<a href="#">OREAS 904**</a>	Cu 0.612% Au 45ppb	0.021% 4.3ppb	10 / 60 / 500	
Copper ore (sediment-hosted)	<a href="#">OREAS 925**</a>	Cu 0.615%	0.021%	10 / 1000	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 907**</a>	Cu 0.638%; CuSol 0.533%; Au 100ppb	see certificate	10 / 60 / 100 / 500	
Copper ore argillaceous sandstones	<a href="#">OREAS 903**</a>	Cu 0.652% Cu-Sol 0.434%	0.020% 0.030%	10 / 60 / 1000	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 162*^</a>	Cu 0.761%	0.036%	10	
Copper ore (sediment-hosted)	<a href="#">OREAS 926**</a>	Cu 0.813%	0.027%	10 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 603**^</a>	Cu 1.00%; Au 5.18ppm; Ag 284ppm	0.034%; 0.15ppm; 15.9ppm	10 / 60	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 927**</a>	Cu 1.08%	0.024%	10 / 1000	
Copper-gold oxide ore (oxidised VMS / weathered rhyodacite)	<a href="#">OREAS 908**</a>	Cu 1.26%; CuSol 1.06%; Au 187ppb	see certificate	10 / 60 / 100 / 500	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 928*</a>	Cu 1.53%	0.071%	10 / 1000	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 163*^</a>	Cu 1.71%	0.08%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 929*</a>	Cu 2.00%	0.056%	10 / 1000	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 604**^</a>	Cu 2.16%; Au 1.43ppm; Ag 488ppm	0.049%; 0.055ppm; 14.6ppm	10 / 60	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>COPPER CRMs (pulpes) continued</u></b>					
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 164</a> *^	Cu 2.22%	0.09%	10	
Massive sulphide ore breccia	<a href="#">OREAS 111</a> *^	Cu 2.30%	0.12%	10	
Massive sulphide ore breccia	<a href="#">OREAS 111b</a> *^	Cu 2.44%	0.12%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 930</a> *^	Cu 2.52%	0.062%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 165</a> *^	Cu 3.21%	0.15%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 931</a> *^	Cu 3.82%	0.110%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 96</a> *^	Cu 3.93%	0.11%	10	
Silver-copper-gold ore (rhyodacite)	<a href="#">OREAS 605</a> **^	Cu 5.02%; Au 1.67ppm; Ag 965ppm	0.152%; 0.086ppm; 25.2ppm	10 / 60	
Massive sulphide ore breccia	<a href="#">OREAS 112</a> *^	Cu 5.13%	0.23%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 932</a> *^	Cu 6.13%	0.181%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 97</a> *^	Cu 6.31%	0.34%	10	
High grade copper ore	<a href="#">OREAS 933</a> *^	Cu 8.37%	0.250%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 166</a> *^	Cu 8.75%	0.35%	10	
High grade copper ore	<a href="#">OREAS 934</a> *^	Cu 9.59%	0.234%	10	
High grade copper ore	<a href="#">OREAS 935</a> *^	Cu 12.6%	0.4%	10	
Massive sulphide ore breccia	<a href="#">OREAS 113</a> *^	Cu 13.3%	0.5%	10	
Cu sulphide ore (sed-hosted)	<a href="#">OREAS 98</a> *^	Cu 14.8%	0.4%	10	
<b><u>CONCENTRATE CRMs (pulpes)</u></b>					
Copper-gold-silver sulphide concentrate	<a href="#">OREAS 991</a> ^	Ag 48.14ppm Au 47.04ppm Cu 20.66%	0.90ppm 0.22ppm 0.053%	50	
Copper-silver sulphide concentrate	<a href="#">OREAS 99b</a> *^	Cu 28.90% Ag 81.1ppm	0.10% 2.5ppm	10	
Copper sulphide refinery product	<a href="#">OREAS 992</a> ^	Cu 43.90% S 36.97%	0.18% 0.56%	10	
Zinc sulphide concentrate	<a href="#">OREAS 350</a> ^	Zn 44.12% Pb 8.22% Ag 96.6ppm	0.14% 0.21% 2.68ppm	10	
Zinc sulphide concentrate	<a href="#">OREAS 351</a> ^	Zn 46.97% Pb 3.85% Ag 120ppm	0.15% 0.07% 3ppm	10	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>CONCENTRATE CRMs (pulps) continued</u></b>					
Lead sulphide concentrate	<a href="#">OREAS 352</a> <sup>^</sup>	Pb 58.14% Zn 2.21% Ag 9.43ppm	0.14% 0.056% 0.666ppm	10	
Nickel-cobalt sulphide refinery product	<a href="#">OREAS 78</a> <sup>^</sup>	Co 23.74% Ni 25.79% S 28.61%	0.34% 0.27% 0.44%	10	
<b><u>NICKEL SULPHIDE CRMs (pulps)</u></b>					
Komatiite altered ultramafic	<a href="#">OREAS 70b</a> <sup>**^</sup>	Ni 0.218%	0.010%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 72b</a> <sup>**^</sup>	Ni 0.686%	0.025%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 73b</a> <sup>**^</sup>	Ni 1.48%	0.035%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 74a</a> <sup>^</sup>	Ni 3.14%	0.175%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 74b</a> <sup>**^</sup>	Ni 3.38%	0.093%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 75a</a> <sup>^</sup>	Ni 5.11%	0.21%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 75b</a> <sup>**^</sup>	Ni 5.29%	0.185%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 76a</a> <sup>^</sup>	Ni 7.29%	0.23%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 76b</a> <sup>**^</sup>	Ni 7.62%	0.209%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 77a</a> <sup>^</sup>	Ni 10.71%	0.40%	10	
Komatiite-hosted nickel sulphide ore	<a href="#">OREAS 77b</a> <sup>**^</sup>	Ni 11.30%	0.301%	10	
<b><u>NICKEL LATERITE CRMs (pulps)</u></b>					
Transitional (saprolite-limonite) ore	<a href="#">OREAS 182</a> <sup>*</sup>	Ni 0.707% Co 728ppm	0.006% 7ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 183</a> <sup>*</sup>	Ni 0.995% Co 225ppm	0.018% 14ppm	10 / 1000	
Transitional (saprolite-limonite) ore	<a href="#">OREAS 184</a> <sup>*</sup>	Ni 1.02% Co 903ppm	0.01% 23ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 185</a> <sup>*</sup>	Ni 1.14% Co 388ppm	0.02% 17ppm	10 / 1000	
Transitional (saprolite-limonite) ore	<a href="#">OREAS 186</a> <sup>*</sup>	Ni 1.23% Co 692ppm	0.02% 25ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 187</a> <sup>*</sup>	Ni 1.37% Co 636ppm	0.02% 19ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 189</a> <sup>*</sup>	Ni 1.48% Co 326ppm	0.03% 13ppm	10 / 1000	
Transitional (saprolite-limonite) ore	<a href="#">OREAS 190</a> <sup>*</sup>	Ni 1.64% Co 889ppm	0.03% 24ppm	10 / 1000	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>NICKEL LATERITE CRMs (pulpes) continued</u></b>					
Saprolitic ore	<a href="#">OREAS 191*</a>	Ni 1.75% Co 665ppm	0.03% 22ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 192*</a>	Ni 1.77% Co 404ppm	0.03% 12ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 193*</a>	Ni 1.93% Co 495ppm	0.03% 15ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 194*</a>	Ni 2.13% Co 428ppm	0.04% 17ppm	10 / 1000	
Saprolitic ore	<a href="#">OREAS 195*</a>	Ni 2.94% Co 477ppm	0.05% 16ppm	10 / 1000	
<b><u>COPPER-NICKEL-PGE CRMs (pulpes)</u></b>					
Gabbro-norite (disseminated sulphides)	<a href="#">OREAS 13b*</a>	Ni 2247ppm Cu 2327ppm Pt 197ppb Pd 131ppb Au 211ppb	155ppm 48ppm 13ppb 9ppb 13ppb	10 / 60	
Magmatic massive sulphide	<a href="#">OREAS 14P*^</a>	Ni 2.10% Cu 0.997% Pt 97ppb Pd 149ppb Au 51ppb	0.07% 0.03% 8ppb 8ppb 6ppb	10 / 60 / 100	
<b><u>Zn-Pb-Ag CRMs (pulpes) – Broken Hill Type</u></b>					
Zinc sulphide ore (meta-sediment/sulphide)	<a href="#">OREAS 36*^</a>	Zn 4.19% Ag 10.17ppm Pb 0.579%	0.07% 0.63ppm 0.016%	10	
Zinc sulphide ore (meta-sediment/sulphide)	<a href="#">OREAS 37*^</a>	Zn 6.26% Ag 5.19ppm Pb 0.615%	0.15% 0.63ppm 0.017%	10	
Zinc sulphide ore (meta-sediment/sulphide)	<a href="#">OREAS 38*^</a>	Zn 10.06% Ag 5.49ppm Pb 0.592%	0.14% 0.42ppm 0.018%	10	
<b><u>Zn-Pb-Ag CRMs (pulpes) – SEDEX Type</u></b>					
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 131b*^</a>	Ag 33.3ppm Pb 1.88% Zn 3.04%	0.7ppm 0.02% 0.04%	10	
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 132a*^</a>	Ag 57.0ppm Pb 3.64% Zn 4.98%	1.3ppm 0.05% 0.07%	10	
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 132b*^</a>	Ag 60.7ppm Pb 3.86% Zn 5.25%	1.7ppm 0.05% 0.04%	10	
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 133a*^</a>	Ag 100ppm Pb 4.90% Zn 10.9%	1ppm 0.08% 0.15%	10	
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 133b*^</a>	Ag 104ppm Pb 5.06% Zn 11.3%	2ppm 0.13% 0.15%	10	
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 134a*^</a>	Ag 200ppm Pb 12.8% Zn 17.3%	2ppm 0.24% 0.22%	10	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>Zn-Pb-Ag CRMs (pulpes) – SEDEX Type continued</u></b>					
Zn-Pb-Ag sulphide ore (carbonate siltstone)	<a href="#">OREAS 134b</a> *^	Ag 209ppm Pb 13.4% Zn 18.0%	5ppm 0.19% 0.25%	10	
<b><u>Zn-Pb-Cu-Ag-Au CRMs (pulpes) – VMS Type</u></b>					
Zn-Pb-Cu-Ag-Au sulphide ore (rhyodacite)	<a href="#">OREAS 620</a> **^	Ag 38.5ppm; Pb 0.774%; Zn 3.15%; Cu 0.173%; Au 0.685ppm	see certificate	10 / 60	
Zn-Pb-Cu-Ag-Au sulphide ore (rhyodacite)	<a href="#">OREAS 621</a> **^	Ag 69ppm; Pb 1.36%; Zn 5.22%; Cu 0.363%; Au 1.25ppm	see certificate	10 / 60	
Zn-Pb-Cu-Ag-Au sulphide ore (rhyodacite)	<a href="#">OREAS 622</a> **^	Ag 102ppm; Pb 2.21%; Zn 10.24%; Cu 0.486%; Au 1.85ppm	see certificate	10 / 60	
Zn-Pb-Cu-Ag-Au sulphide ore (rhyodacite)	<a href="#">OREAS 623</a> **^	Ag 20.4ppm; Pb 0.250%; Zn 1.03%; Cu 1.73%; Au 0.827ppm	see certificate	10 / 60	
Zn-Pb-Cu-Ag-Au sulphide ore (rhyodacite)	<a href="#">OREAS 624</a> **^	Ag 45.3ppm; Pb 0.624%; Zn 2.40%; Cu 3.10%; Au 1.16ppm	see certificate	10 / 60	
<b><u>MANGANESE CRMs (pulpes) – Sedimentary</u></b>					
Manganiferous sedimentary	<a href="#">OREAS 171</a> *	Mn 35.10%	0.17%	10 / 1000	
Manganiferous sedimentary	<a href="#">OREAS 172</a> *	Mn 42.75%	0.21%	10 / 1000	
Manganiferous sedimentary	<a href="#">OREAS 170a</a> *	Mn 45.06%	0.36%	10 / 1000	
Manganiferous sedimentary	<a href="#">OREAS 170b</a> *	Mn 46.06%	0.33%	10 / 1000	
<b><u>TIN CRMs (pulpes) – Skarn</u></b>					
Sn laterite ore	<a href="#">OREAS 140</a> *	Sn 1755ppm	122ppm	10 / 500	
Sn laterite ore	<a href="#">OREAS 141</a> *	Sn 6061ppm	339ppm	10 / 500	
Sn laterite ore	<a href="#">OREAS 142</a> *	Sn 1.04%	0.05%	10 / 500	
<b><u>TUNGSTEN CRMs (pulpes) – Skarn</u></b>					
Skarn tungsten magnetite ore	<a href="#">OREAS 700</a> **	W 1.13% Au 0.506ppm Cu 0.202%	0.025% 0.023ppm 0.007%	10 / 60 500	
High grade skarn tungsten magnetite ore	<a href="#">OREAS 701</a> **	W 2.43% Au 1.11ppm Cu 0.491%	0.035% 0.05ppm 0.012%	10 / 60 500	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>MAGNETITE ORE CRMs (pulpes)</u></b>					
Skarn tungsten magnetite ore (with Au-Cu-W mineralisation)	<a href="#">OREAS 700**</a>	Tot Fe 16.06% FeO 12.07% DTR (MassRec) 11.28% Satmagan Fe <sub>3</sub> O <sub>4</sub> 10.91%	0.175% 0.398% 0.007% 0.196%	10 / 60 1000	
High grade skarn tungsten magnetite ore (with Au-Cu-W mineralisation)	<a href="#">OREAS 701**</a>	Tot Fe 23.98% FeO 17.35% DTR (MassRec) 20.80% Satmagan Fe <sub>3</sub> O <sub>4</sub> 17.95%	0.549% 0.637% 0.482% 0.446%	10 / 60 500	
<b><u>IRON ORE CRMs (pulpes)</u></b>					
Hematite ore (BIF-hosted)	<a href="#">OREAS 401*</a>	Fe 45.63% SiO <sub>2</sub> 24.88% P 0.105%	0.257% 0.148% 0.030%	10 / 1000	
Hematite ore (BIF-hosted)	<a href="#">OREAS 402*</a>	Fe 48.41% SiO <sub>2</sub> 19.77% P 0.119%	0.298% 0.170% 0.038%	10 / 1000	
Hematite ore (BIF-hosted)	<a href="#">OREAS 403*</a>	Fe 52.31% SiO <sub>2</sub> 13.67% P 0.123%	0.310% 0.099% 0.032%	10 / 1000	
Hematite ore (BIF-hosted)	<a href="#">OREAS 404*</a>	Fe 55.14% SiO <sub>2</sub> 7.88% P 0.151%	0.208% 0.054% 0.038%	10 / 1000	
Hematite ore (BIF-hosted)	<a href="#">OREAS 405*</a>	Fe 58.02% SiO <sub>2</sub> 8.37% P 0.111%	0.297% 0.062% 0.042%	10 / 1000	
Hematite ore (BIF-hosted)	<a href="#">OREAS 406*</a>	Fe 61.44% SiO <sub>2</sub> 7.96% P 0.085%	0.296% 0.066% 0.020%	10 / 1000	
Hematite ore (supergene)	<a href="#">OREAS 40*</a>	Fe 66.72% SiO <sub>2</sub> 4.64% P 0.004%	0.39% 0.07% 0.002%	10 / 1000	
<b><u>URANIUM CRMs (pulpes) – Sedimentary and Hydrothermal</u></b>					
U bearing sandstone	<a href="#">OREAS 120**</a>	U 40.5ppm	7.0ppm	10 / 1000	
U bearing haematitic breccia	<a href="#">OREAS 100a*</a>	U 135ppm	11ppm	10 / 500	
U ore (sandstone hosted)	<a href="#">OREAS 121**</a>	U 215ppm	9.6ppm	10 / 1000	
U ore haematitic breccia	<a href="#">OREAS 101b*</a>	U 396ppm	29ppm	10 / 500	
U ore haematitic breccia	<a href="#">OREAS 101a*</a>	U 422ppm	29ppm	10 / 500	
U ore (sandstone hosted)	<a href="#">OREAS 122**</a>	U 423ppm	13.0ppm	10 / 1000	
U ore haematitic breccia	<a href="#">OREAS 102a*</a>	U 662ppm	39ppm	10 / 500	
U ore (sandstone hosted)	<a href="#">OREAS 123**</a>	U 858ppm	29.7ppm	10 / 1000	
U ore granitoids & gneisses	<a href="#">OREAS 106*</a>	U 1143ppm; Th 644ppm	34ppm; 30ppm	30	
U ore (sandstone hosted)	<a href="#">OREAS 124**</a>	U 1845ppm	40.0ppm	10 / 1000	

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Description of material	CRM Code	Metal Concentration	± 1SD	Unit Size (g)	
<b><u>REE-Nb ore CRMs (pulp) – Carbonatite (supergene)</u></b>					
REE-Nb laterite ore	<a href="#">OREAS 460**</a>	Nb 711ppm; La 1347ppm Ce 1813ppm; Nd 791ppm Pr 244ppm; Sm 107ppm Zr 472ppm	see certificate	10 / 1000	
REE-Nb laterite ore	<a href="#">OREAS 461**</a>	Nb 1343ppm; La 2644ppm Ce 3510ppm; Nd 1638ppm Pr 491ppm; Sm 220ppm Zr 613ppm	see certificate	10 / 1000	
REE-Nb laterite ore	<a href="#">OREAS 462**</a>	Nb 1452ppm; La 3798ppm Ce 4951ppm; Nd 2551 Pr 739ppm; Sm 369ppm Zr 598ppm	see certificate	10 / 1000	
REE-Nb laterite ore	<a href="#">OREAS 463**</a>	Nb 1524ppm; La 4967ppm Ce 0.659%; Nd 3706ppm Pr 1004ppm; Sm 538ppm Zr 576ppm	see certificate	10 / 1000	
REE-Nb laterite ore	<a href="#">OREAS 464**</a>	Nb 1917ppm; La 1.17% Ce 1.53%; Nd 0.994% Pr 2578ppm; Sm 1498ppm Zr 462ppm	see certificate	10 / 1000	
REE-Nb laterite ore	<a href="#">OREAS 465**</a>	Nb 4759ppm; La 2.40% Ce 3.98%; Nd 1.18% Pr 3772ppm; Sm 1360ppm Zr 1806ppm	see certificate	10 / 1000	

Limited quantities of discontinued OREAS CRMs may be available including: [OREAS 50c](#), [72a](#), [73a](#), [90](#), [92](#), [95](#), [99](#), [104](#) and [105](#).

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