



**Australia China Corporation of Coal Geology Engineering Pty Ltd**

**EL30/2010**  
**FIRST ANNUAL REPORT**  
**Period ending 25 May 2012**

**August 2012**

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## **1 ABSTRACT**

This report details the work completed on EL30/2010 for the twelve month period ending 25<sup>th</sup> May 2012.

Australia China Corporation of Coal Geology Engineering Pty Ltd (ACCCGE) completed field reconnaissance and collected rockchip samples to assess the potential for tin, tungsten and associated base metal mineralisation hosted in the Silurian – Devonian Mathinna Beds

Six rockchip samples were collected during a field reconnaissance. One sample was anomalous in Pb (0.96%) and Sn (>500ppm). Another sample was anomalous in Pb (0.59%).

## 2 INTRODUCTION

This report details the work completed on EL30/2010 for the twelve month period ending 25<sup>th</sup> May 2012.

Australia China Corporation of Coal Geology Engineering Pty Ltd (ACCCGE) completed field reconnaissance and collected rockchip samples to assess the potential for tin, tungsten and associated base metal mineralisation hosted in the Silurian – Devonian Mathinna Beds

## 3 TENEMENT STATUS

The exploration licence (EL30/2010) covers 44 square kilometres in northeastern Tasmania in the Scamander River valley. It is located approximately 95 kilometres ESE of Launceston and 12 kilometres SW of St Helens (Figure 1).

The licence was granted to ACCCGE Pty Ltd on 26 May 2011 for a period of five years.

The licence contains an excluded area – retention licence 2/2009 that covers the Great Pyramid Tin workings that is held by TNT Mines Ltd.

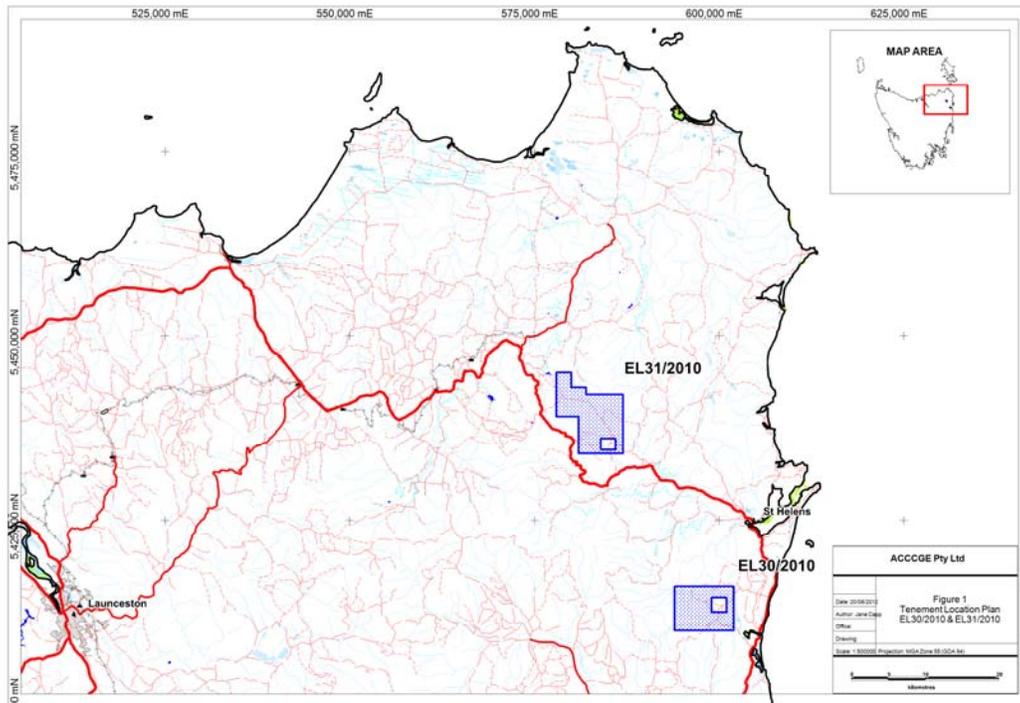


Figure 1: Tenement Location Plan – EL30/2010.

## 4 TOPOGRAPHY AND ACCESS

EL30/2010 is located largely within State Forest which provides good vehicular access along a number of graded tracks.

The terrain is undulating to steep with southern extensions of the Loila Tier and Copper Show Ridge extending into the northern part of the license. The southern part

of the license is dominated by the Scamander River Valley. Vegetation is mostly light, open, eucalyptus forest with thick undergrowth.

## 5 GEOLOGY

### 5.1 Geology and Mineralisation

The northeastern area of Tasmania is dominated by the Silurian – Devonian Mathinna Beds. These typically consist of alternating sequence of dominantly bedded sandstones up to 10m with lesser siltstone and shale sequences up to 5m thick (Figure 2). The sequence was folded during the Tabberabberan Orogeny into open NNW trending folds. Major faults and shear zones also trend NNW. Low grade metamorphism has resulted in the formation of quartzites and slates.

The sedimentary sequence was been intruded by granitic plutons at the end of the Devonian during the end of the Tabberabberan Orogeny. Associated vein-hosted dominantly tin and silver mineralisation is centred on the NNW trending fault and shear zones within the Mathinna Beds.

Minor low grade metamorphism of shales to spotted hornfels and greywackes to quartzites has occurred adjacent to the granitic intrusions and within shear zones.

Tertiary and Quaternary cover deposits of alluvium occur in the lower reaches of the Scamander River.

The Great Pyramid workings occur on a conical shaped hill within RL2/2009. Mineralisation occurs in a zone of intensely folded to overturned Mathinna quartzite. The dominant fault set strikes NNW and there is a second NE striking set, some occupied by dykes. Tin and silver mineralisation occurs in brittle sheeted and fissure veins. Minor arsenic, copper, lead, zinc and tungsten mineralisation also occurs.

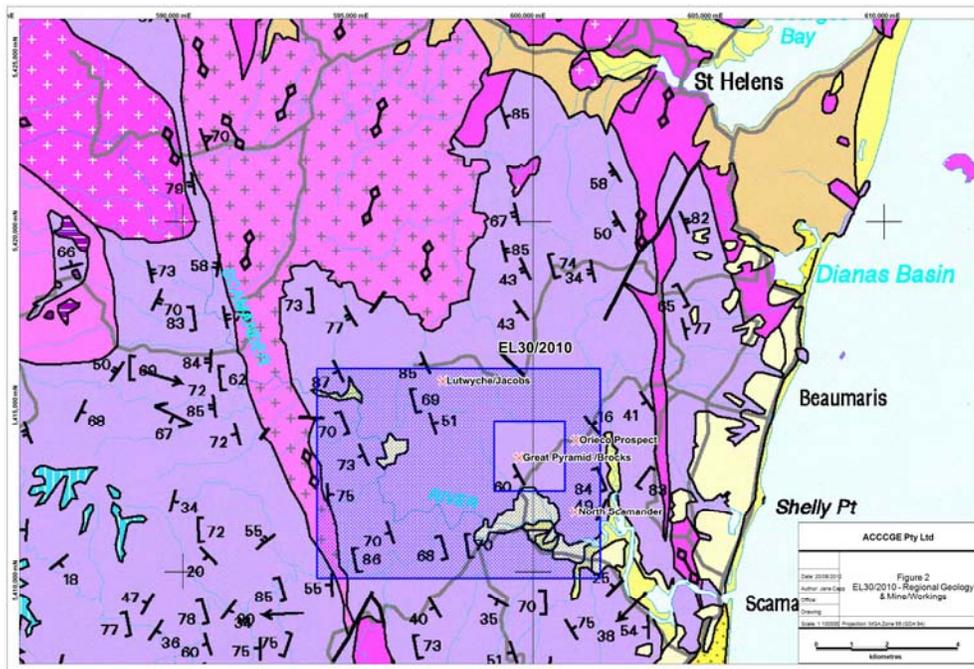


Figure 2: Regional Geology & Mine/Workings – EL30/2010

## 6 PREVIOUS EXPLORATION AND MINING

At the turn of the last century minor discoveries of tungsten, copper, silver and tin were made in the Scamander Mineral District, but were rarely developed past the prospect stage (Anon, 1979). The Orieco Mine, located northeast of EL30/2010, produced 85 tonnes of copper and the Great Pyramid Mine produced 2.93 tonnes of tin.

The Great Pyramid Tin Mining Co. conducted soil sampling and exploration adits at the Great Pyramid prospect in 1909-1910, with poor results. Mining and milling operations occurred between 1925 and 1936 producing 2.93tonnes of tin concentrate.

Modern exploration by various companies has been continuous in the area since 1959. BHP, Austimex and Geophoto conducted geophysical surveys, geochemical sampling and drilling at various prospects in the area. BHP Pty. Co. explored for tin deposits (>5,000t) in EL12/78 and other retention licences over the Great Pyramid prospect until 1994.

Merrywood Coal Company Pty Ltd held the area (EL6/95) but with drop of the tin price in 1997 and closure of the Anchor Tin Mine the license was relinquished.

Prospect	Exploration	Description
Upper Scamander Anomaly	Geophysics	2 IP lines
	Geochem	Rockchip sampling
	Drilling	1 DD hole
Copper Show Creek	Geophysics	3 IP lines
	Drilling	2 DD holes
Lutwyche	Drilling	4 DD holes
Orieco	Geophysics	-
	Geochem	Rockchip and stream sediment sampling
	Drilling	2 DD holes
Great Pyramid	Geophysics	Ground magnetics
	Geochem	Bulk sampling, underground devt
	Drilling	24 Percussion, 2-4 DD holes
North Scamander	Geophysics	4 lines recon. VLF Fluxgate magnetometer, Puranen Dual frequency E.M. survey
	Geochem	Stream sediment, rockchip and soil sampling for Cu, Pb, Zn (defined 300x600m anomaly)
	Drilling	1 DD hole (1.2m @ 4.4% Zn, 1.5% Pb, 0.1% Cu)

Table 1: Previous exploration in the area of EL30/2010 (after Anon., 1979)

## 7 WORK COMPLETED

### 7.1 Field Reconnaissance and Rockchip Sampling

To supplement a review and assessment of previous exploration and general field reconnaissance of the license and the Great Pyramid workings was completed in within the reporting period.

Six rockchip samples were collected and analysed by ALS, Table 2. One sample 30D004-H1 was anomalous in Pb (0.96%) and Sn (>500ppm). Another sample 30D004-H1A was anomalous in Pb (0.59%). Appendix 1 contains the laboratory analyses and the sample locations are shown in Figure 3.

SAMPLE	Ag	Cu	Mn	P	Pb	Sn	W	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
30D001-H1	6.23	25.1	87	150	78.7	10.3	2.2	52
30D001-H2	6.19	896	117	520	212	80.9	11.5	155
30D002-H1	0.19	21.7	238	450	5.3	11.8	18.1	64
30D004-H1	98.5	675	110	160	9620	>500	17.4	51
30D004-H1A	85.8	383	187	80	5880	140	7.9	50
30D005-H1	5.78	122	74	450	627	59.2	3.5	25

Table 2: Rockchip sample multi-element assay results

## 8 ENVIRONMENTAL

No ground disturbing activities were completed within the reporting period.

## 9 REFERENCES

Anonymous, 1979: *Exploration Licence 12/78, Scamander Area, Tasmania, Progress Report*. Broken Hill Proprietary Company Ltd. 79-1377.

# APPENDIX 1

Company: CHICOA - China Coal Resources Pty Ltd  
 Consultant Name:  
 Data Type: Rockchip Samples  
 Date: 21/08/2012  
 Tenement: EL30/2010

SAMPLE DESCRIPTION	Easting_MGA94-55	Northing_MGA94-55	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
			Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %
30D001-H1	601371	5413926	6.23	5.44	6.5	500	1.42	0.54	0.01
30D001-H2	601371	5413926	6.19	5.36	148	420	1.63	4.14	0.01
30D002-H1	600874	5412990	0.19	5.55	3.1	20	1.56	7.19	0.03
30D004-H1	599521	5413647	98.5	2.29	>10000	1070	0.98	72.7	0.01
30D004-H1A	599521	5413647	85.8	1.52	6310	420	0.52	81.2	0.01
30D005-H1	601435	5414472	5.78	4.57	690	310	2.07	9.74	0.01

Company:

Consultant Name:

Data Type:

Date:

Tenement:

	ME-MS61												
SAMPLE	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In		
DESCRIPTION	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm		
30D001-H1	<0.02		27	1.3	76	6.86	25.1	4.11	13.4	<0.05		4.1	0.142
30D001-H2		0.4	102.5	3.1	80	8.49	896	14.85	18.3	0.18		3	3.32
30D002-H1		0.03	2.22	0.3	5	48.6	21.7	0.97	44.4	<0.05		1.8	0.181
30D004-H1		1.17	500	0.5	29	5.59	675	11	8.59	0.22		3	13.9
30D004-H1A		0.71	306	1.2	27	4.52	383	5.67	6.87	0.14		1.2	9.66
30D005-H1	<0.02		93.3	1.1	52	6.69	122	14	11.75	0.1		2.7	1.045

Company:  
 Consultant Name:  
 Data Type:  
 Date:  
 Tenement:

SAMPLE DESCRIPTION	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm
30D001-H1	1.66	13.2	8.5	0.22	87	0.62	0.04	11.1	9.6	150	78.7
30D001-H2	1.79	51	17.5	0.14	117	1.57	0.11	9.9	24.2	520	212
30D002-H1	3.28	0.9	720	0.01	238	0.8	2.89	57.7	2.4	450	5.3
30D004-H1	0.52	309	76.5	0.07	110	1.15	0.05	4.1	2.8	160	9620
30D004-H1A	0.36	186	90.4	0.03	187	2.68	0.17	4.8	6.8	80	5880
30D005-H1	1.15	87.2	12.4	0.14	74	0.42	0.02	8	7.9	450	627

Company:

Consultant Name:

Data Type:

Date:

Tenement:

	ME-MS61										
SAMPLE	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
DESCRIPTION	ppm	ppm	%	ppm							
30D001-H1	118.5	<0.002	0.01	1.34	9	1	10.3	23.5	1.15	0.07	14.6
30D001-H2	120	<0.002	0.42	1.56	12.1	26	80.9	21.7	1.01	0.09	15.5
30D002-H1	1560	<0.002	0.01	0.13	1.2	1	11.8	10.9	15.3	<0.05	4.7
30D004-H1	82.6	<0.002	0.29	133	16.4	32	>500	28.1	0.41	0.4	8.8
30D004-H1A	104	<0.002	0.15	167.5	7.6	19	140	15.4	1.04	0.3	4.2
30D005-H1	91.5	<0.002	0.05	10.5	21.7	4	59.2	34.5	0.69	0.08	16.6

Company:

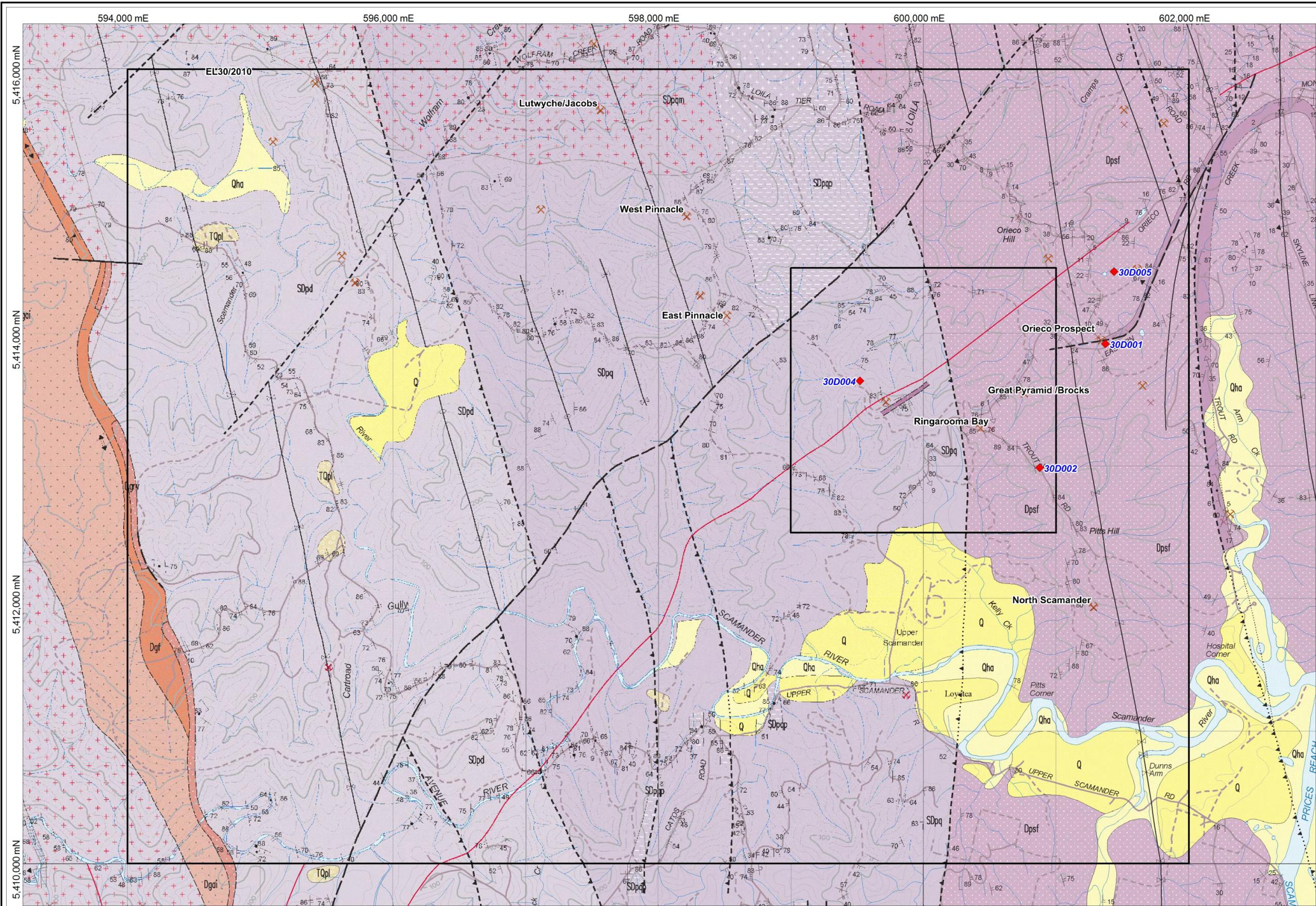
Consultant Name:

Data Type:

Date:

Tenement:

	ME-MS61	Au-ST43	Au-OG43								
SAMPLE	Ti	Tl	U	V	W	Y	Zn	Zr	Au	Au	
DESCRIPTION	%	ppm									
30D001-H1	0.299	0.85	2.1	58	2.2	12.5	52	139.5	0.0001		
30D001-H2	0.263	1.35	3.8	81	11.5	15.9	155	102	0.0024		
30D002-H1	0.011	10.15	2.5	1	18.1	1.2	64	23.9	0.0006		
30D004-H1	0.126	0.79	5.1	29	17.4	8	51	105	>0.1000		0.24
30D004-H1A	0.053	0.83	2.7	15	7.9	3.6	50	40.2	>0.1000		0.77
30D005-H1	0.231	0.47	4.5	53	3.5	10.4	25	92.9	0.0199		



Source Information:  
 State of Tasmania (Mineral Resources Tasmania)  
 Digital Geological Atlas 1:25 000 Series

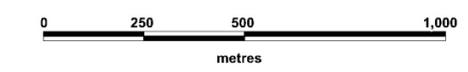
- ◆ Rockchip Sample (sample number)
- ✕ Mine or mineral occurrence

ACCCGE Pty Ltd

Figure 3  
 EL30/2010 Rockchip  
 Sample Locations

Date: 27/08/2012  
 Author: Jane Capp  
 Office:  
 Drawing:

Scale: 1:25000 Projection: MGA Zone 55 (GDA 94)



CENOZOIC	
QUATERNARY	Qha Stream alluvium, swamp and marsh deposits (Qha).
	Q Active dune and beach sand and beach gravel (Qhbd).
	Qpsc Clay, sand and gravel with minor peat. May have ferruginous cement and contains marine shells (Qpsc).
	Erosion surface.
PALEOGENE - NEOGENE	TQpl Gravel, sand and derived lag (TQpl).
	Ts Conglomerate, gravel, sand and derived lag (Ts).
	Erosion surface.
PALEOZOIC	Dpsf Turbidite succession dominated by quartz-rich sandstones with minor siltstone and mudstone. Current related sedimentary structures abundant. Contains Devonian marine macrofossils, graptolites and vascular plant fossils (Dpsf). Contact metamorphosed Dpsf (Dpsfm).
	Dpsfp Mappable mudstone-rich units within Dpsf (Dpsfp). Contact metamorphosed Dpsfp (Dpsfpm) (Dpsf, Dpsfp, Dpsfm, Dpsfpm - Scamander Formation).
SILURIAN(?) - DEVONIAN	SDpq Turbidite succession dominated by quartz-rich sandstones with interbedded massive gray mudstones which locally predominate. Current related sedimentary structures common in coarser sandstones. No fossils recorded (SDpq).

IGNEOUS ROCKS	
DEVONIAN(?)	Dd Dolerite dyke (Dd).
	MINOR GRANITIC INTRUSIONS
	Dgaf Leucocratic muscovite granite (Dgaf).
	BLUE TIER BATHOLITH
MIDDLE DEVONIAN	Dgrv Coarse- to fine-grained, variably porphyritic granodiorite (Dgrv).
	Dgrk Coarse- to fine-grained, porphyritic (very abundant large K-feldspar phenocrysts) granodiorite, with minor or no hornblende (Dgrk).
	(Dgrv, Dgrk - Scamander Tier Granodiorite; I-type).
LOWER DEVONIAN	Dgrc Coarse-grained, sparsely porphyritic biotite-hornblende granodiorite (Dgrc) (George River Granodiorite; I-type).
	Dgdc Coarse-grained diorite (Dgdc).

PANAMA GROUP  
 MATHINNA SUPERGROUP