



## ASX RELEASE

27 January 2012

### Major Diversified Western Australian Minerals Explorer

- **Copper**
- **Manganese**
- **Base metals**
- **Gold**
- **Iron ore**
- **Nickel**

**40% owner of  
Diversified Minerals  
Explorer  
Desert Mines and  
Metals Limited  
(ASX Listed)**

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## QUARTERLY ACTIVITIES REPORT

ENDING 31 DECEMBER 2011

### Highlights - Exploration, Western Australia

#### Glenburgh Copper Gold Project

- Results from second round of drilling received including; Pink Elephant Prospect
  - 28m at 0.6% Cu from surface, inc. 6m at 1.4% Cu from 6m in GRC51
  - 24m at 0.25g/t Au from 22m, inc. 2m at 1.2g/t Au from 34m, in GRC89
  - 8m at 0.9% Cu from 56m, inc. 4m at 1.4% Cu from 58m, in GRC91

#### GBO Prospect

- 24m at 0.4% Cu from 94m in GRC64,
- 30m at 0.3% Cu from 104m in GRC66,
- 20m at 0.4% Cu from 130m in GRC68
- 10m at 0.3% Cu from 64m in GRC72
- 10m at 0.5% Cu from 128m, inc. 2m at 1.3% Cu from 134m in GRC75
- 600m strike of copper mineralisation confirmed at GBO

#### Desert Mines and Metals Limited

(Aurora owns 40%)

Camel Hills Project (Desert initial earn-in to initial 51%)

- RC Drilling results from Dalgety produce several copper and gold anomalies. Best results;
  - 6m at 1.2g/t gold and 0.25% copper from surface (CHRC07) including 2m at 2.3g/t gold and 0.44% Cu and:
  - 4m at 0.56% copper from 58m (CHRC04) including 2m at 0.9% copper.
- Infill soil sampling completed on Main Grid gold prospect (assays awaited)

#### Corporate

- Aurora cash position ~\$13.2 million

## **GLENBURGH PROJECT - Copper-Gold**

Aurora's Glenburgh Project consists of 16 granted exploration licences and one licence application and is situated in the southern part of the Gascoyne Province, central Western Australia. Systematic prospecting and rock-chip sampling commenced in 2010 and discovered copper-gold-uranium mineralisation at the GBO Prospect during early follow-up of landsat and airphoto colour anomalies. Visible copper minerals at Pink Elephant were discovered late in 2010, and the M&B Prospect in early 2011. The first drilling program took place in May 2011, and the second one in September and October. An airborne VTEM geophysical survey was completed mid-2011. Prospecting continues to discover surface mineralisation and define additional drill targets (Figure 1).

The second RC program comprised 62 holes for a total of 7,181m. Table 1 gives drillhole details and Table 2 displays significant assay results.

Aurora is very encouraged by these results, in particular:

**GBO Prospect.** Copper mineralisation in earlier holes (GRC5 and 6) is supported below the oxidised zone by GRC75 with another (new) zone to the north in GRC76 and 77.

**Pink Elephant Prospect.** GRC89 to 92 support previous intercepts at the western dolomite "wedge" eg. 28m at 0.61% Cu from surface in GRC51, and include a wide intercept of low-grade gold of 24m at 0.25g/t Au in GRC89. Holes GRC93 and 94 also intercepted wide gold anomalies in a previously unrecognised magnetite-pyrite shear zone in the 1.9km "gap" between the West and East dolomite "wedges". The significance of the gold is as yet unknown.

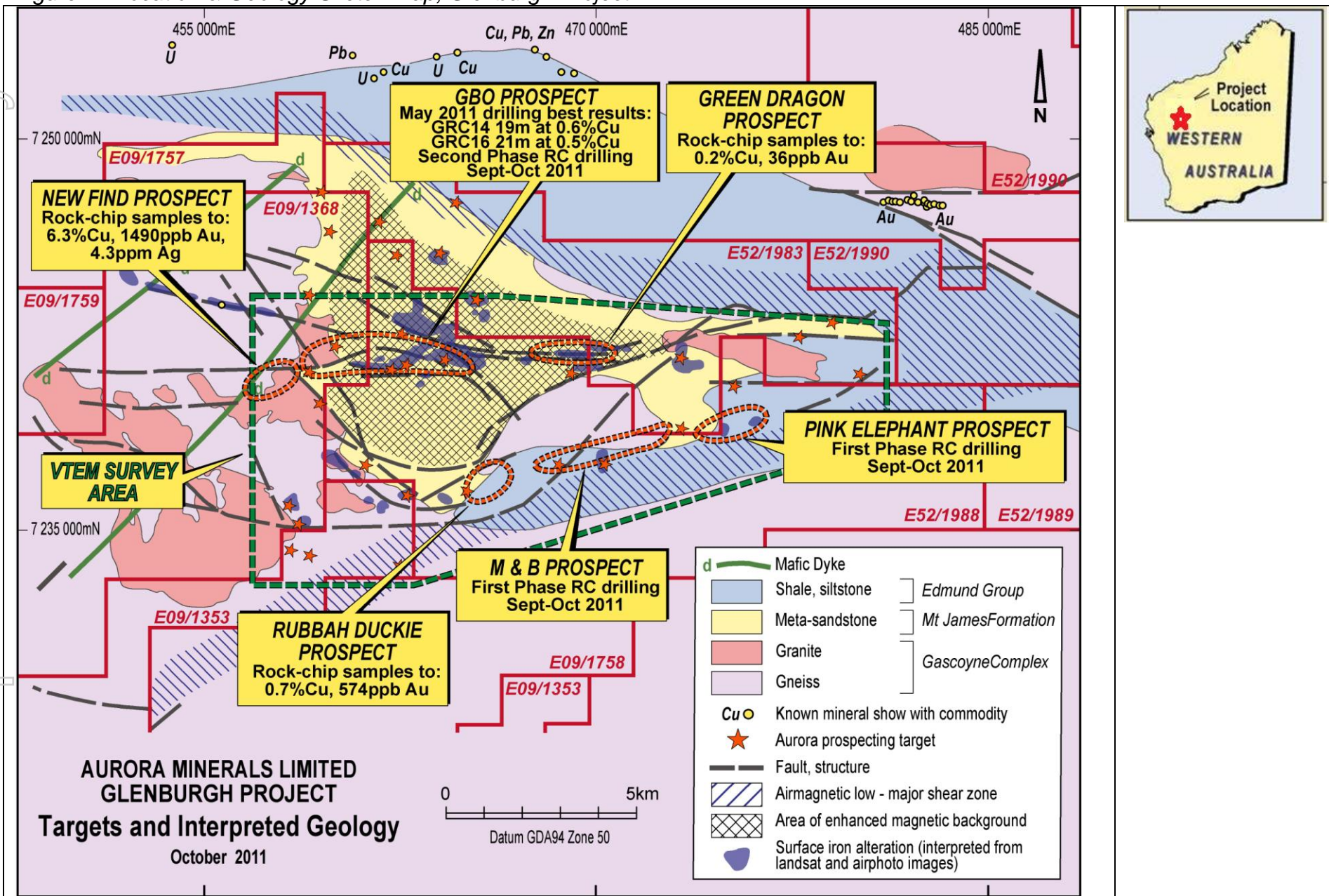
**M&B Prospect.** GRC84 and 86 at the western end of the M&B structure intersected wide zones of anomalous copper and gold in the weathered (oxidised) zone. Here the east-west structure is 60m wide containing two parallel prominent quartz veins.

Aurora can foresee follow-up exploration will be warranted at GBO, extending east into the Green Dragon area, Pink Elephant, especially in the east where difficult access prevented drilling of the jaspilite horizon, and new prospects such as Rubbah Ducky and NuFind with their surface copper and gold occurrences.

Field work, including drilling has now been suspended at Glenburgh for the hot Summer and rainy seasons. Results are being compiled from all field activities, including prospecting, rock-chip, soil and stream sediment sampling and the various drilling programs.

Drilling at GBO is aided by a Western Australia Department of Mines and Petroleum Co-Funded Drilling Initiative which allows co-funding of up to \$150,000 in direct drill costs.

Figure 1: Location & Geology Sketch Map, Glenburgh Project



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## **CAPRICORN SOUTHEAST MANGO PROJECT**

During the quarter a study into the costs of preparing a bulk sample of high grade manganese ore was commenced.

### **DESERT MINES AND METALS LIMITED (Aurora holds 40% equity interest)**

#### **Camel Hills Joint Venture (Desert earning an initial 51%)**

Camel Hills is a large project covering some 1,600km<sup>2</sup> in the southern Gascoyne Region of Western Australia. The Project covers part of the north-western margin of the Archean Yilgarn Craton and adjacent Proterozoic Errabiddy Shear Zone. Desert is earning into an initial 51% interest in the project from Aurora Minerals Limited. The tenement package currently exceeds some 1,600km<sup>2</sup> deemed by the company's geologists as being prospective for gold, copper, nickel and iron ore.

#### **Dalgety Copper-Gold Prospect**

Twenty five RC holes were drilled in the quarter testing for possible down dip extensions of surface copper and gold anomalies identified from prospecting and sampling. Four Prospect areas were targeted for reconnaissance shallow RC drilling. The targets were generated from prospect scale mapping and sampling and structural interpretation and are considered possible extensions of the mineralised corridor that hosts Gascoyne Resources' Glenburgh gold deposits situated several kilometres to the southeast.

This initial RC drill program tested four prospects; Saucerer, Min Min, Jacko and Snowbird, with 1,786m drilled in 25 holes (Figure 2). Holes were targeted to intersect the east-west trending gossanous quartz veins (with high grade copper and gold previously reported from surface rock-chips)

Forty percent of holes drilled intersected anomalous copper and/or gold mineralisation over generally narrow widths.

Quartz veins and siliceous alteration with variable amounts of secondary copper minerals (malachite and azurite) and sulphide mineralisation (pyrite and chalcopyrite) were noted in visual logging.

Follow up prospecting and sampling is being planned.

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Appendix 1: Glenburgh RC Drill Program 2 Collar Co-ordinates

GLENBURGH SECOND DRILL PROGRAM SEPT-OCT 2011						
Hole	East	North	Azm	Dip	Depth	Comments
GRC032	466847	7240119	-	90	53	Water Bore, open hole
GRC033	465082	7241098	27	60	100	GBO
GRC034	464777	7241299	35	60	100	GBO
GRC035	464494	7241426	0	60	200	GBO
GRC036	463709	7241439	0	60	173	GBO
GRC037	469897	7238395	0	60	101	M &B prospect
GRC038	469897	7238354	0	60	113	M &B prospect
GRC039	469903	7238333	360	60	89	M &B prospect
GRC040	469904	7238300	360	60	137	M &B prospect
GRC041	469900	7238250	360	60	101	M &B prospect
GRC042	469900	7238241	180	60	100	M &B prospect
GRC043	469700	7238400	360	60	113	M &B prospect
GRC044	469697	7238347	360	60	119	M &B prospect
GRC045	469696	7238298	360	60	100	M &B prospect
GRC046	470101	7238399	360	60	100	M &B prospect
GRC047	470101	7238352	360	60	100	M &B prospect
GRC048	473796	7238418	360	60	131	Pink Elephant Prospect
GRC049	473795	7238381	360	60	95	Pink Elephant Prospect
GRC050	473750	7238399	360	60	125	Pink Elephant Prospect
GRC051	473799	7238497	180	60	95	Pink Elephant Prospect
GRC052	473800	7238551	180	60	101	Pink Elephant Prospect
GRC053	473897	7238510	180	60	95	Pink Elephant Prospect
GRC054	473901	7238546	180	60	95	Pink Elephant Prospect
GRC055	473905	7238441	0	60	95	Pink Elephant Prospect
GRC056	474852	7239001	0	60	95	Pink Elephant Prospect
GRC057	474854	7238953	0	60	100	Pink Elephant Prospect
GRC058	475654	7238795	0	60	83	Pink Elephant Prospect
GRC059	475799	7238989	180	60	119	Pink Elephant Prospect
GRC060	475803	7239043	180	60	100	Pink Elephant Prospect
GRC061	475796	7239090	180	60	100	Pink Elephant Prospect
GRC062	476095	7239251	180	60	120	Pink Elephant Prospect
GRC063	463908	7241472	0	60	200	Pink Elephant Prospect
GRC064	463500	7241426	0	60	137	GBO
GRC065	463304	7241479	340	60	122	GBO
GRC066	463315	7241467	340	60	160	GBO
GRC067	463098	7241443	0	60	119	GBO
GRC068	463500	7241398	0	60	160	GBO
GRC069	461392	7241126	26	60	149	GBO

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Hole	East	North	Azm	Dip	Depth	Comments
GRC070	461389	7241255	210	60	100	GBO
GRC071	461398	7241261	30	60	140	GBO
GRC072	460997	7241228	180	60	106	GBO
GRC073	460390	7240914	30	60	119	GBO
GRC074	460384	7240896	20	60	100	GBO
GRC075	460357	7240818	30	60	141	GBO
GRC076	460439	7241083	20	60	100	GBO
GRC077	460422	7241068	30	60	100	GBO
GRC078	460407	7241045	30	60	100	GBO
GRC079	460501	7241195	30	60	95	GBO
GRC080	460505	7241162	30	60	100	GBO
GRC081	460203	7240961	30	55	150	GBO
GRC082	461994	7241129	0	60	119	GBO
GRC083	469205	7238198	0	60	100	M &B prospect
GRC084	469198	7238252	0	60	95	M &B prospect
GRC085	469403	7238204	0	60	100	M &B prospect
GRC086	469402	7238254	0	60	100	M &B prospect
GRC087	470504	7238205	0	60	100	M &B prospect
GRC088	470499	7238152	0	60	100	Pink Elephant Prospect
GRC089	473804	7238524	180	60	71	Pink Elephant Prospect
GRC090	473701	7238496	30	60	120	Pink Elephant Prospect
GRC091	473701	7238449	0	60	100	Pink Elephant Prospect
GRC092	473697	7238400	0	60	100	Pink Elephant Prospect
GRC093	474598	7238680	180	60	113	Pink Elephant Prospect
GRC094	474598	7238631	180	60	97	M &B prospect
GRC095	472001	7238543	0	60	120	M &B prospect
Total					7181	

Appendix 2: Glenburgh RC Drill Program 2 Copper Intersections

Glenburgh GRC33-50 Significant Intersections						
HOLE	FROM (m)	TO (m)	IW (m)	>0.1%Cu	>0.2%Cu	PROSPECT
33					nsi	GBO
34					nsi	GBO
35	144	148	4	0.17		GBO
inc	144	146	2		0.22	
	158	162	4	0.13		
36	90	132	42	0.34		GBO
inc	98	118	10		0.66	
inc	100	106	6		1.01	
37					nsi	M&B
38	0	36	36	0.21		M&B
inc	8	14	6		0.68	
inc	10	12	2		1.41	
	66	68	2		0.28	
39	40	56	16	0.19		M&B
inc	46	50	4		0.46	
40	96	126	30	0.18		M&B
inc	98	100	2		0.28	
and	108	116	8		0.43	
41	70	74	4	0.13		M&B
42					nsi	M&B
43					nsi	M&B
44					nsi	M&B
45	22	24	2		0.24	M&B
	32	36	4	0.18		
	50	54	4	0.12		
	60	62	2	0.11		
46	10	12	2	0.11		M&B
47	46	48	2		0.26	M&B
	64	70	6	0.11		
inc	64	66	2		0.28	
48	42	44	2	0.13		Pink Elephant
	58	66	8	0.1		Pink Elephant
	84	86	2		0.24	
50	54	68	14	0.19		Pink Elephant
inc	54	62	8		0.29	
	108	110	2		0.40	
	122	124	2	0.12		

Holes sampled every meter, assay samples composited to 2m intervals.

nsi = no significant interval >0.1% Cu

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Appendix 2: Glenburgh RC Drill Program 2 Copper Intersections (continued)

Glenburgh GRC51-72 Significant Intersections						
HOLE	FROM (m)	TO (m)	IW (m)	>0.1%Cu	>0.2%Cu	PROSPECT
	m	m	m			
51	0	28	28	0.61		Pink Elephant
inc	6	12	6		1.37	
52				nsi		
53				nsi		
54				nsi		
55	4	10	6	0.28		Pink Elephant
	6	10	4		0.36	
56				nsi		
57				nsi		
58				nsi		
59	40	44	4	nsi		Pink Elephant
60	42	44	2	nsi		Pink Elephant
61				nsi		
62				nsi		
63	182	184	2		0.24	GBO
64	98	124	26	0.37		GBO
	100	122	22	0.41		
65	36	122	66	0.12		GBO
inc	52	56	4		0.25	
66	36	38	2	0.11		GBO
and	96	140	44	0.26		
inc	96	98	2		0.46	
	108	128	20		0.43	
67	104	106	2	0.11		GBO
68	108	110	2	0.11		GBO
and	130	150	20	0.35		
inc	130	134	4	0.31		
	142	148	6	0.56		
69	42	44	2	0.12		
70				nsi		
71				nsi		
72	64	74	10	0.3		GBO

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Appendix 2: Glenburgh RC Drill Program 2 Copper Intersections (continued)

GLENBURGH GRC73-95, SIGNIFICANT INTERSECTIONS CU					
HOLE	FROM (m)	TO (m)	IW (m)	>0.1% Cu	PROSPECT
73				nsi	
74	0	22	22	0.10	GBO
	94	96	2	0.18	
75	48	50	2	0.10	GBO
	88	92	4	0.36	
	104	108	4	0.35	
	112	118	6	0.59	
	128	138	10	0.47	
inc.	134	136	2	1.27	
76	16	18	2	0.15	GBO
	26	38	12	0.16	
77	60	70	10	0.40	GBO
inc.	62	64	2	1.01	
78	66	68	2	0.11	GBO
79				nsi	
80				nsi	
81				nsi	
82				nsi	
83	88	90	2	0.17	GBO
84	4	6	2	0.20	M&B
85				nsi	
86	36	38	2	0.10	M&B
	52	54	2	0.10	
	78	82	4	0.13	
87				nsi	
88				nsi	
89				nsi	
90	0	10	10	0.28	Pink Elephant
91	56	64	8	0.89	Pink Elephant
inc.	58	62	4	1.35	
92	66	68	2	0.24	Pink Elephant
93	78	80	2	0.46	Pink Elephant

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Appendix 3: Glenburgh RC Drill Program 2 Gold Intersections (continued)

GLENBURGH GRC33-95, SIGNIFICANT INTERSECTIONS AU					
HOLE	FROM (m)	TO (m)	IW	g/t Au	PROSPECT
48	42	44	2	1.0	Pink Elephant 68g/t Ag, 0.6%Pb, 0.6%Zn
49	18	24	6	0.50	Pink Elephant
59	40	44	4	0.28	Pink Elephant
60	42	44	2	0.23	Pink Elephant
inc.	118	122	4	0.21	
68	146	148	2	0.21	GBO
72	68	70	2	0.13	GBO
75	112	118	6	0.11	GBO
89	22	46	24	0.25	Pink Elephant
inc.	34	36	2	1.20	
91	96	98	2	0.40	Pink Elephant
93	62	84	22	0.12	Pink Elephant
inc.	78	80	2	1.00	
94	20	26	6	0.16	Pink Elephant

**CORPORATE**

As of 31 December 2011 Aurora had a cash position of approximately \$13.2m.

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Dr Robert Taylor  
Executive Director

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr Robert S Taylor, a Member of The Institute of Materials, Minerals and Mining and Mr. John Jordan, a corporate member of the Australasian Institute of Mining and Metallurgy. Executive Director of Aurora Minerals Limited and Desert Mines and Metals Limited, Robert Taylor, and John Jordan, consultant, consult to the Companies through their respective consulting companies Able Kids Pty Ltd and Churchlands Consulting Pty Ltd.

Robert Taylor and John Jordan have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Robert Taylor and John Jordan consent to the inclusion in the presentation of the matters based on this information in the form and context in which it appears.

*The Companies' websites ([www.auroraminerals.com](http://www.auroraminerals.com) and [www.desertenergy.com.au](http://www.desertenergy.com.au)) are recommended reading for interested market watchers, brokers and investors. The websites contain information on the Companies' projects, project maps, a list of the Companies' announcements to ASX, information on Native Title (including the tenement grant process and heritage surveys) legislative environments under which the Companies operate, Corporate Governance, a section on risks, many of which are common to exploration companies, and other useful information. A list of the Companies' announcements is also obtainable from the Australian Securities Exchange.*

*If you would like copies of announcements emailed to you please contact Ken Banks.*