

ASX Announcement



15th December 2009

Current Issued Capital
168,802,842 Ordinary Shares

Market Capitalisation
at 35 cents \$59m

Cash at Bank
\$3.9m

MAJOR NEW GOLD TARGETS NEAR BETA PIT

A1 Minerals Ltd (ASX: AAM) has received first assays back from drilling near the Beta pit at the company's BrightStar gold project in the Laverton region of Western Australia's north eastern goldfields.

This includes a large area of surface gold mineralisation discovered within 400 metres of the company's gold plant nearing completion.



The drilling was part of regional exploration and also a requirement to undertake sterilisation drilling near the plant.

Managing director John Williams said exploration to date has shown mainly shallow-plunging new gold zones that are outside of the reserves and mostly out of the established resources.

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The JORC Code reserves on the BrightStar properties total 150,000 ounces but the resources total about 1.7 million oz (ASX 21 April 2009).

Latest Near or At Surface Gold Grades include:

- 4 metres @ 2.76g/t Gold from surface;
- 2 metres @ 16.1g/t Gold from 1 metre;
- 6 metres @ 63g/t Gold from 6 metres;
- 2 metres @ 4.11 g/t Gold from 6 metres;
- 1 metres @ 2.64g/t Gold from 6 metres;
- 2 m metres @ 3.85 g/t Gold from 11 metres;
- 4 metres @ 4.51g/t Gold from 15 metres;
- 5 metres @ 2.32 g/t Gold from 22 metres;

An RC drill programme was conducted to test geological targets around on Beta plant and the two target areas were:

- the area north of the Plant and Main Pit
- Area Between Aztec and Main Pit

Mr Williams said the new mineralisation found between the pits shows an improvement in the interpreted continuity of ore zones. The linking of the previously separated orebodies will allow for more optimal mining.

He said that north of the Main Pit an area of near-surface gold mineralisation shows the potential for another open pit.

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The BrightStar Gold Project development remains on schedule and is due to start gold producing gold at the end of this month. The schedule has been impacted by the growing resource development activity in Western Australia that has seen pressure placed on skilled and semi-skilled labour for mining contractors.

Yours sincerely,

John Williams
Managing Director - A1 Minerals Limited

For full reports and information go to A1 Minerals website: www.a1minerals.com.au or ASX Code: AAM

The information in this report that relates to Exploration Results or Mineral Resources is based on data compiled by Mr John Williams who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Williams has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity undertaken to qualify as Competent Persons as defined in the 2004 Edition of the "Australian Code for Reporting of Mineral Resources and Ore Reserves". Mr Williams has consented to the inclusion in this report of the matters based on information in the form and context in which it appears.

BACKGROUND INFORMATION ON A1 MINERALS LIMITED

A1 Minerals Limited (A1) is an emerging Australian gold miner with its 100% owned BrightStar Gold Project currently in development. The BrightStar is situated in the highly prospective Laverton district in the Eastern Goldfields of Western Australia, a frontier for new gold deposits, some of which have become world class mines, including Barrick's Wallaby/Granny Smith and AngloGold Ashanti's Sunrise Dam gold operations. Since successfully listing on the ASX in December 2003, A1 Minerals (ASX: AAM) has grown its assets through prudent acquisition and successful exploration to a total ground holding of more than 2500 square kilometers; JORC Resources of more than 1.7Moz gold including JORC Reserves of more than 150,000oz gold; and its own gold treatment plant currently under construction. The BrightStar Gold Project is scheduled to be in production in December 2009 and planned to produce a minimum of 30,000oz gold per annum for at least 4 years.

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Table.1 Significant AC Drill Intercepts

Hole_ID	Easting	Northing	RL	Dip	Azimuth	Depth_From	Depth_To	Au	Intersection
BBA097	20099	49810	468	-60	90	6	7	270	
						7	8	111	
						8	9	0.73	
						9	10	1.17	
						10	11	0.15	
						11	12	0.51	6m @ 63.0
BBA098	20088	49810	468	-60	90	14	15	4.34	
						15	16	1.56	2m @ 2.95
BBA098	20088	49810	468	-60	90	19	20	1.18	
BBA101	20059	49805	468	-60	90	0	1	1.6	
						1	2	1.07	2m @ 1.34
BBA101	20059	49805	468	-60	90	6	7	5.21	
						7	8	3.01	2m @ 4.11
BBA102	20050	49803	468	-60	90	18	19	1.32	
BBA105	20100	49946	472	-60	90	24	25	1.61	
BBA105	20100	49946	472	-60	90	29	30	5.95	
BBA112	20008	49907	471	-60	90	22	23	1.69	
BBA112	20008	49907	471	-60	90	29	30	1.43	
BBA113	20032	49940	473	-60	90	29	30	1.82	
BBA114	20020	49941	473	-60	90	29	30	1.57	
BBA117	20071	49992	474	-60	90	10	11	1.18	
BBA138	20083	49807	468	-60	90	20	21	1.19	
BBA138	20083	49807	468	-60	90	27	28	0.86	
						29	30	0.90	2m @ 0.88
						23	24	1.17	
BBA139	20091	49788	468	-60	90	24	25	2.34	
						25	26	1.90	
						26	27	5.38	
						28	29	1.47	
						29	30	1.03	6m @ 2.22
						14	15	5.67	
BBA140	20099	49793	468	-60	90	16	17	0.65	
						17	18	0.79	
						18	19	0.68	4m @ 1.95
						26	27	2.35	
BBA140	20099	49793	468	-60	90	28	29	0.77	2m @ 1.51
BBA141	20088	49797	468	-60	90	23	24	1.23	1m @ 1.23
BBA142	20075	49816	469	-60	90	22	23	1.23	
BBA142						25	26	1.96	
BBA142						27	28	1.13	

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BBA142							28	29	1.30	
BBA142							29	30	1.76	5m @ 1.48
BBA145	20079	49829	469	-60	90		18	19	2.82	
BBA146	20069	49825	469	-60	90		27	28	1.70	
BBA148	20075	49840	469	-60	90		4	5	1.02	
BBA149	20072	49850	470	-60	90		3	4	1.11	
BBA150	20050	49860	471	-60	90		22	23	3.52	
							23	24	4.76	
							24	25	0.39	
							25	26	1.11	
							26	27	1.82	5m @ 2.32
BBA151	20059	49899	471	-60	90		25	26	1.28	
BBA153	20010	49860	470	-60	90		0	1	1.24	
BBA154	20034	49880	472	-60	90		32	33	2.00	
BBA155	20020	49880	471	-60	90		34	35	3.56	
BBA163	20049	50000	474	-90	-		4	5	1.08	
BBA235	20120	50160	475	-90	-		3	4	6.31	
BBA291	19991	50350	473	-60	90		14	15	6.21	
BBA291	19991	50350	473	-60	90		46	47	1.12	
							47	48	1.54	2m @ 1.33
BBA291	19991	50350	473	-60	90		51	52	2.18	
BBA308	20280	50379	476	-90	-		2	3	1.00	
BBA323	20020	50380	473	-60	90		11	12	1.13	
BBA324	20010	50380	473	-60	90		11	12	4.69	
							12	13	3.00	2m @ 3.85
BBA326	19931	50400	471	-60	90		85	86	1.92	
							86	87	22.60	
							87	88	0.85	3m @ 8.46
BBA359	19990	50420	472	-60	90		42	43	1.99	
							43	44	0.84	2m @ 1.42
BBA359	19990	50420	472	-60	90		79	80	4.19	
BBA362	19980	50440	472	-60	90		6	7	1.46	
BBA366	20060	50439	473	-60	90		6	7	1.00	
							7	8	4.17	2m @ 2.59
BBA368	20100	50440	474	-60	90		6	7	2.64	
BBA368	20100	50440	474	-60	90		32	33	1.52	
BBA368	20100	50440	474	-60	90		55	56	1.20	
							56	57	1.31	2m @ 1.26
BBA369	20120	50440	474	-60	90		1	2	28.99	
							2	3	3.18	2m @ 16.1
BBA392	20039	50460	473	-90	-		5	6	6.72	
BBA399	20070	50480	473	-60	90		0	1	1.45	
BBA416	20050	50500	472	-60	90		1	2	1.26	

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BBA416	20050	50500	472	-60	90	38	39	13.56	
BBA417	20040	50500	472	-60	90	3	4	1.93	
BBA417	20040	50500	472	-60	90	36	37	1.41	
BBA417	20040	50500	472	-60	90	42	43	1.92	
						43	44	1.12	
						44	45	0.63	3m @ 1.22
BBA417	20040	50500	472	-60	90	48	49	4.61	
BBA418	20031	50499	472	-60	90	10	11	0.81	
						11	12	3.08	
						12	13	1.14	
						13	14	1.42	4m @ 1.61
BBA418	20031	50499	472	-60	90	38	39	1.64	
						39	40	1.05	
						40	41	0.94	
						41	42	0.99	
						42	43	2.95	
						43	44	2.76	6m @ 1.72
BBA418	20031	50499	472	-60	90	54	55	1.08	
BBA421	20030	50521	472	-60	90	15	16	7.74	
						16	17	1.27	2m @ 4.51
BBA422	20040	50520	472	-60	90	0	1	1.12	
						1	2	0.47	
						2	3	6.88	
						3	4	2.55	4m @ 2.76

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