



29 April 2009

Companies Announcement Office
Australian Securities Exchange Limited
Level 6
20 Bridge Street
Sydney NSW 2000

Via E-lodgement

DIEMALS MAPPING AND SAMPLING PROGRAM

- Outcropping hematite/goethite mineralisation identified.
- Zone of sampled outcropping magnetic/BIF horizons increased from 600m to 1200m width.
- BIF identified and sampled in previously untested magnetic zone.
- Iron grades returned up to 56.8% Fe.

Avonlea Minerals Limited (“Avonlea” or “the Company”) completed an extensive field mapping and sampling program over magnetic targets at its Diemals project area in March. This program has provided extensions to previously identified and sampled BIF (iron rich mudstone) horizons, and has also increased the geologic understanding of the magnetic anomalies.

The program was intended to gather information and enhance the Company’s understanding of the southern portion of the tenement where multiple magnetic horizons can be observed in geophysical data. Areas not previously sampled for iron were also visited as part of this recent program. Geological information necessary for understanding the attitude of the mineralisation was also collected, and is expected to prove to be useful in designing any follow-up exploration programs, including a possible drilling program.

The western limb of the anticline that dominates the geology in the south of the tenement was inspected, and multiple BIF horizons were identified and sampled. This is the first time that iron ore exploration has been reported on this feature and the subsequent results are encouraging. The Company is considering future programs as a consequence of these results.

During the 3 days of field work 28 samples were collected for assay. Results received indicate iron grades of up to 56.8% with low silica (4.46%) in sample D09016.

A complete listing of all results appears below:

Sample ID	Samp type	Samp width metres	Fe %	SiO2 %	Al2O3 %	P %	S %	WGS84 Latitude	WGS84 Longitude
D09001	Chip	5	52.8	7.87	3.79	0.103	0.114	-29.52221	119.13823
D09002	Chip	5	49.2	10.45	5.59	0.094	0.138	-29.52216	119.13834
D09003	Chip	5	51.7	8.04	5.27	0.114	0.131	-29.52220	119.13834
D09004	Chip	8	53.7	9.3	3.21	0.063	0.114	-29.52159	119.13836
D09005	Chip	1	54	8.13	3.64	0.099	0.118	-29.51794	119.13511
D09006	Chip	2	37.2	42.8	0.32	0.059	0.013	-29.51688	119.13854
D09007	Chip	6	36.2	47.1	0.27	0.05	0.014	-29.51807	119.14825
D09008	Chip	10	34.1	50	0.36	0.023	0.01	-29.50887	119.09067
D09009	grab	10	33.7	50.8	0.36	0.033	0.006	-29.50990	119.09043
D09010	Chip	5	40.4	42.5	1.24	0.03	0.026	-29.50494	119.09300
D09011	chip	5	36.8	43.9	0.53	0.042	0.035	-29.50495	119.09269
D09012	Chip	5	35.1	45.5	1.62	0.055	0.027	-29.50486	119.09242
D09013	Chip	5	36.3	42.9	1.88	0.047	0.026	-29.50486	119.09242
D09014	Chip	5	37.6	40.4	1.34	0.043	0.048	-29.50471	119.09183
D09015	grab	10	56	8.19	3.17	0.065	0.032	-29.50295	119.12644
D09016	grab	5	56.8	4.46	3.13	0.178	0.039	-29.49862	119.12404
D09017	grab	5	31.4	47.1	1.82	0.112	0.012	-29.50044	119.12473
D09018	grab	5	41.4	37.3	1.02	0.036	0.047	-29.44344	119.13918
D09019	Chip	8	36.5	46.2	0.35	0.031	0.012	-29.44283	119.13800
D09020	Chip	12	33.3	49.8	0.46	0.034	0.011	-29.44185	119.13629
D09021	Chip	10	38.5	42.2	0.38	0.028	0.024	-29.44021	119.13489
D09022	Chip	5	37.4	43.2	0.52	0.038	0.015	-29.44026	119.13500
D09023	grab	10	33.2	49.1	1.38	0.034	0.016	-29.44058	119.13524
D09024	Chip	1	32.4	48.8	0.75	0.052	0.007	-29.44815	119.13507
D09025	Chip	7	33.7	48.5	0.58	0.033	0.004	-29.44819	119.13562
D09026	Chip	2	36.5	45.9	0.22	0.041	0.019	-29.44818	119.13644
D09027	Chip	7	36.3	44.7	0.23	0.038	0.004	-29.44809	119.13684
D09028	grab	10	37.3	44.9	0.51	0.04	0.006	-29.44740	119.13252

Yours Faithfully



David Riekie

MANAGING DIRECTOR

The information in this report that relates to Exploration Results, Exploration Targets, Minerals Resources or Ore Reserves is based upon information compiled by Mr Chris Shaw who is a member of The Australian Institute of Mining and Metallurgy. Mr Chris Shaw is a consultant to the Company. Mr Chris Shaw has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the 'Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Shaw consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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About Avonlea:

Avonlea Minerals Limited is an Australian publically listed exploration company based in Perth, Western Australia.

The Company has targeted gold and base metal opportunities in Central Queensland and holds 85% of the iron ore rights to the Diemals Iron Ore Project in Western Australia.

More recently, Avonlea entered into a Share Sale Agreement for the acquisition of the issued capital in Eris Mining (Pty) Limited, a Namibian incorporated company that holds an exclusive prospecting licence, and six licence applications covering approximately 12,000km2 of highly prospective tenure in Namibia. Namibia is generally considered one of the most desirable places in Africa to explore for minerals based on the stable political and mining friendly environment. Exploration activity in Namibia will focus on iron ore, copper, gold and rare earths/metals.

This acquisition remains subject to a number of conditions, including shareholder approval which is scheduled for 30 April 2009

Figure 1: Diemals Mapping & Sample Locations

