



# **ASX ANNOUNCEMENT**

1 December 2011

**ASX Code: MDX** ABN: 28 106 866 442

## **Corporate Description**

Mindax's Mt Forrest Iron Project is progressing through feasibility with a view to mining at the end of 2013.

The company is carefully putting in place necessary approvals and aligning infrastructure partners including rail and port.

Coupled with its significant iron assets, Mindax is also the greenfields discoverer of a new uranium province near Mukinbudin, Western Australia.

Through technically advanced exploration and an eye for detail, Mindax has successfully built a significant portfolio of 37 mineral exploration and mining tenements covering over 4,000 square kilometres. In addition, Mindax has applications in place for water and infrastructure covering over 2,400 square kilometres in support of the Mt Forrest Iron Project development.

Mindax aims to develop strategic resources through innovative exploration. Higher yield projects will be moved to production via strategic partnerships.

#### **Key Projects**

Mt Forrest DSO Iron, Magnetite
Yilgarn-Avon JV Sedimentary Uranium
Mortlock JV Copper-Gold

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# IRON EXPLORATION UPDATE

# FURTHER RESOURCE DEFINITION DRILLING INCREASES MT FORREST IRON PROJECT: SIGNIFICANT ADDITIONAL DIRECT SHIPPING MATERIAL LOCATED

# **Highlights**

- Previously undrilled areas, newly accessible, reveal significant additional Direct Shipping goethite-hematite and related iron mineralisation including new Regolith material, over 2 kilometres and 1 kilometre sections of strike.
- Targeting Regolith goethite-hematite Direct Shipping material, the drilling program completed 67 holes for 3,269 metres.
- Scout drilling of a blanket of detrital material adjacent to goethitic iron formation at **Cassowary** returned consistent iron mineralised intervals of 40-45% Fe over a 20 metre section from surface. Mapping describes an area of 2 x 1 kilometres along the ridgeline and out to the west. Potential to be quantified by drilling.
- Preliminary metallurgical testwork on surface detrital material has upgraded above 57% Fe by a simple crushing, screening and washing process.
- New zone of goethite-hematite mineralisation identified by scout drilling and mapping at Paradise Bore. Includes iron grades greater than 54% Fe over 1000 metres of strike and extends to depths of 70 metres below surface.
- Recent Davis Tube Recovery (DTR) testwork returned a
  best weight recovery of 62.3% with a concentrate
  grade of 71.1% Fe, indicative of an ultra clean
  magnetite specification. Analysis of DTR tails confirmed
  certain mineralisation includes a hematite component
  potentially enhancing overall Fe recoveries.
- Further resource definition drilling of these new Regolith targets has the ability to significantly increase the current JORC resource inventory.
- Continued solid progress on approvals, infrastructure planning and negotiations with infrastructure providers with the aim to mine DSO in 2013 and magnetite in 2015.



#### **IRON EXPLORATION**

## MT FORREST PROJECT (Iron, Gold 100%)

# **Regolith Drilling Program**

Further RC drilling at Mt Forrest was completed comprising 67 holes for 3,269 metres (Table 1).

Table 1

DRILL SUMMARY BY LOCATION

Prospect	Holes	Metreage		
Bulga	25	1,344		
Currawang	12	592		
Toucan	6	455		
Parrot	4	200		
Emu North	10	384		
Cassowary North	10	294		
TOTAL	67	3,269		

The Regolith Drilling Program is targeted at potential Direct Shipping goethite-hematite and related iron mineralisation, overlying the deep-seated iron mineralised system. This program focused on

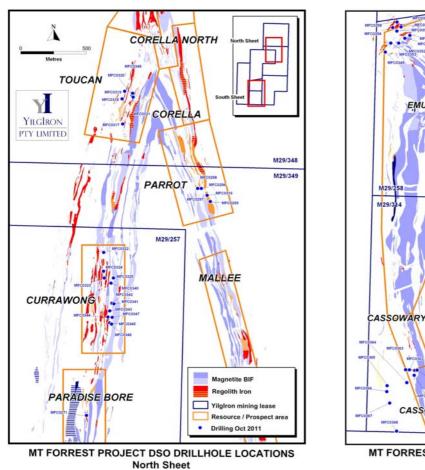
- Scout drilling three untested goethite prospects at Bulga, Currawong and Emu North.
- Infill drilling at goethite targets Toucan, Parrot and Cassowary North.
- Scout drill testing of detritals flanking the Cassowary North project.

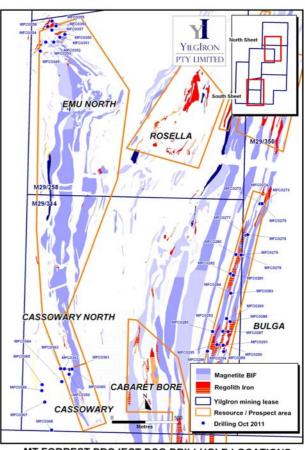
At **Bulga**, 25 holes were drilled for 1,344 metres. Several BIF units containing regolith iron mineralisation (with iron grades greater than 50% Fe) were identified with strike lengths of up to 1.2 kilometres. The best result was 34 metres @ 53.0% Fe in hole MFC0290, including 10 metres @ 59.1% Fe from 10 metres depth (Table 2). These results suggest the depth extent of the >50% Fe regolith iron mineralisation is approximately 30 metres below surface.

At **Currawong**, 12 holes were drilled for 592 metres (Table 2). Drill hole MFC0341 was drilled to test outcrop and intersected reasonable goethite mineralisation [8 metres @ 57.5% Fe from 8 metres (Figure 2)]. This is the same iron unit that was intersected over 750 metres to the south in hole MFC0271 [10 metres @ 56.3% Fe from 72 metres (Figure 3)]. The strike length of this distinct zone exceeds 1 kilometre (Figure 4) and represents a significant new zone of goethite mineralisation. The zone lies immediately east of the Paradise Bore gold resource and has been picked up in hole PBC40, which was previously drilled targeting gold and returning an intercept of 15 metres @ 40.7% Fe. Further drilling is planned in the New Year.



Figure 1
COLLAR LOCATION PLANS FOR RECENT DRILLING





MT FORREST PROJECT DSO DRILLHOLE LOCATIONS
South Sheet

Figure 2

DRILL SECTION HOLE MFC0341

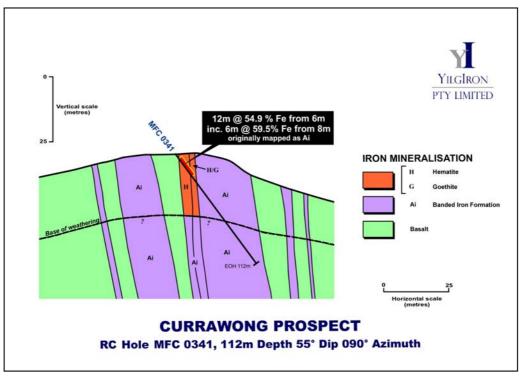




Figure 3

DRILL SECTION HOLE MFC0271

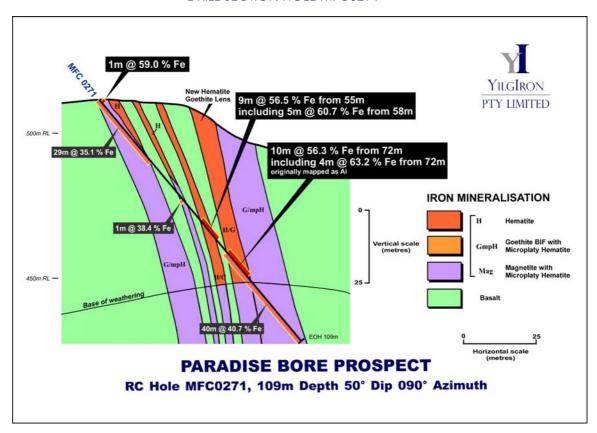
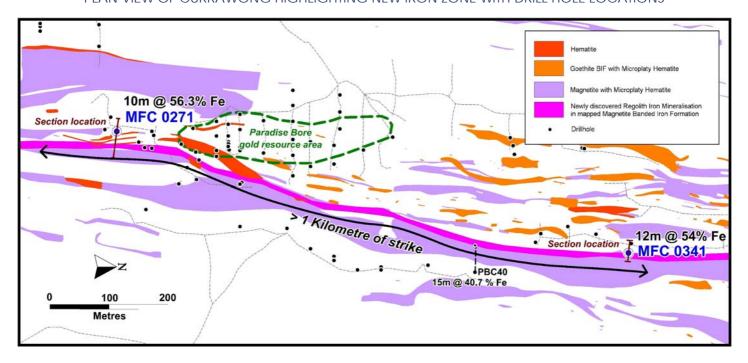


Figure 4
PLAN VIEW OF CURRAWONG HIGHLIGHTING NEW IRON ZONE WITH DRILL HOLE LOCATIONS





At **Parrot** and **Toucan**, infill resource drilling successfully intersected goethite-hematite mineralisation (Table 2) which confirmed the thickness and grade of the mineralisation in areas previously modelled as Inferred Resources. This additional data and subsequent increase in confidence will allow for the Inferred Resources to be added to the Indicated Resource Inventory.

At **Emu North**, 10 holes were drilled for 384 metres. The drill results (Table 2) show narrow, flat dipping, stringy bands of goethite-hematite mineralisation. The flat dip of the units limits the depth extent of the goethite-hematite mineralisation to less than 20 metres.

South of Emu at Cassowary North, scout drilling of detrital iron mineralisation returned a down hole thickness of 28 metres in hole MFC0360, giving the mineralisation vertical section of 25 metres from surface. The section averages 40-45% Fe and includes narrow intercepts of up to 58% Fe with low  $SiO_2$  at 4%. (Table 2)

This target was generated from earlier gold exploration drilling. Mapping indicates the detrital blanket to abut outcropping goethitic iron formations to the east and laterally extensive for 2 kilometres along the ridgeline and up to 1 kilometre to the west. The material includes hematised clasts and pisoliths in a clay rich matrix. Drilling used a non-destructive drilling technique required to quantify the thickness and lateral extent of the detrital blanket.

More detailed mapping has been undertaken and preliminary samples collected from exposures in gullies. These are being sized to establish further understanding of the material. Early observations suggest that simple screening or trommelling should generate a suitable product. This regolith mapping is being extended to similar detrital blankets at the Toucan, Parrot and Emu North prospects and drilling will also extend to these areas.

## **GEOMETALLURGY**

## **Regolith Detrital Materials**

Nine preliminary surface samples were taken at **Cassowary North** for size classification and assay to determine the potential upgrade of detrital material to a saleable product by dry-screening out the finer fractions, including the high alumina clay fractions.

Of the nine samples, five returned saleable grades higher than 57% Fe with acceptable silica and aluminium levels. Further bulk sampling will be undertaken.

# Davis Tube Recovery ("DTR") Results at 40 Micron

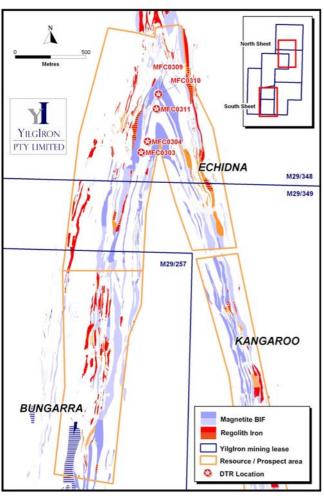
Follow-up DTR analyses were returned for the deep drilling completed in March 2011. These have delineated several wide bands of exceptionally high magnetite recoveries, making for a superior ultraclean marketable concentrate. These results from the **Echidna and Emu** prospects provide support for neighbouring drill holes, confirming and complimenting the strike continuity of this high tenor primary magnetite - microplaty hematite mineralisation. Drill hole MFC0303 intersected several high-grade zones, with primary grades up to 49% Fe. This included a DTR interval with weight recoveries up to 60%, averaging 100 metres @ 70.8% Fe concentrate with very low contaminants (Figure 6). The DTR results are outlined in Table 4.



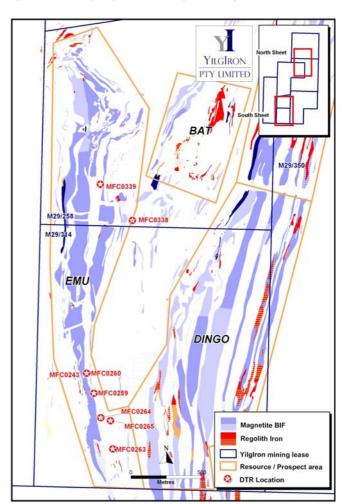
Selective analysis of DTR tails (non magnetic residues) was also undertaken where samples showed high primary iron grades, but relatively low DTR recoveries. These tails subsequently returned assays of up to 22% Fe. This non-magnetic iron mineral is confirmed as hematite, indicating partial martite alteration of magnetite or a primary hematite being present. This confirms a widespread geological observation of hematite alteration of magnetite and should enable more efficient recoveries of iron oxides from this mineralisation.

Figure 5

COLLAR LOCATION PLANS FOR PREVIOUS 2011 DRILLING FOR DTR INFORMATION



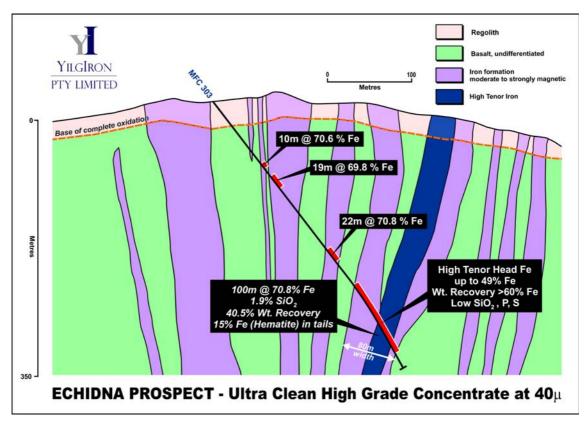
MT FORREST PROJECT DTR DRILLHOLE LOCATIONS
North Sheet



MT FORREST PROJECT DTR DRILLHOLE LOCATIONS
South Sheet



Figure 6
MFC0303 CROSS SECTION WITH DTR RESULTS AND HIGH TENOR IRON ZONE





# **Table 2: Drill Assay Results**

(MFC0272-0299, MFC0316-0325 AND MFC0340-0358 REPORTED ABOVE 50% FE LOWER CUT MFC0359-MFC0368 REPORTED ABOVE 40% FE LOWER CUT)

Drill Hole	From (m)	To (m)	C0368 REP	Fe%	SiO <sub>2</sub> %	Al <sub>2</sub> 0 <sub>3</sub> %	P%	S%	LOI%
Dill Hole	Hom (m)	10 (11)	Hole Interval (m)	1670	310270	AI2U370	F /0	370	LO170
				BULGA					
MFC0272	22	40	18	56.6	13.3	1.5	0.09	0.01	4.6
MFC0273	NSA								
MFC0274	10	16	6	54.8	12.3	4.4	0.04	0.03	5.3
MFC0275-277	NSA								
MFC0278	0	4	4	50.8	18.0	5.1	0.05	0.04	4.9
WII C0276	10	14	4	55.5	13.6	3.6	0.05	0.04	3.9
MFC0279	2	8	6	53.4	15.9	4.3	0.03	0.04	4.4
MFC0280	NSA								
MFC0281	4	16	12	56.06	10.5	4.88	0.05	0.04	4.71
MFC0282	2	32	30	51.20	19.1	3.79	0.05	0.11	4.19
Incl.	10	12	2	61.81	7.9	1.92	0.05	0.05	2.79
	46	48	2	50.72	21.2	2.37	0.06	0.01	4.23
MFC0283	12	14	2	55.54	17.8	0.82	0.05	0.01	2.9
MFC0284	NSA								
MFC0285	4	10	6	53.81	16.4	3.62	0.04	0.01	3.81
MFC0286	NSA								
MFC0287	4	16	12	53.45	16.1	3.50	0.03	0.04	4.47
	20	26	6	50.94	16.9	5.00	0.05	0.02	5.56
MFC0288	4	6	2	54.91	16.3	1.70	0.02	0.03	3.73
	10	12	2	58.04	12.1	1.49	0.03	0.03	3.47
MFC0289	20	28	8	54.71	10.6	5.85	0.06	0.03	5.82
MFC0290	0	34	34	53.02	14.7	5.30	0.03	0.03	4.88
Incl.	10	20	10	59.1	9.2	3.0	0.03	0.03	4.0
MFC0291	12	26	14	51.74	18.9	4.03	0.04	0.02	3.54
MFC0292	4	12	8	50.96	22.0	2.19	0.05	0.02	3.54
MFC0293-0294	NSA								
MFC0295	0	8	8	50.62	24.5	0.97	0.08	0.02	2.55
MFC0296	NSA								
				PARROT					
MFC0297-0298	NSA								
MFC0299	0	16	16	52.36	13.5	2.75	0.03	0.07	8.80
MFC0316	6	8	2	54.93	10.3	2.86	0.03	0.05	8.42
				TOUCAN					
MEC0217	4	16	12	53.92	8.0	6.69	0.08	0.39	7.53
MFC0317	22	34	12	54.31	16.6	2.01	0.08	0.09	3.93
MFC0318-0319	NSA								
	10	14	4	60.55	5.6	2.52	0.1	0.06	5.91
MFC0320	56	62	6	52.92	19.8	1.21	0.11	0.01	3.88
	68	70	2	55.45	10.1	0.81	0.23	0.04	9.62
MFC0321	12	14	2	55.54	7.8	5.68	0.09	0.05	6.34
MFC0348	Assays		Pending						



			C	CURRAWONC	}				
Drill Hole	From (m)	To (m)	Down Hole Interval (m)	Fe%	SiO₂%	Al <sub>2</sub> 0₃%	P%	\$%	LOI%
MFC0322	6	10	4	54.3	11.2	4.8	0.05	0.01	6.9
MFC0323	4	6	2	56.7	8.9	3.7	0.08	0.06	6.2
MFC0324	NSA								
MFC0325	12	20	8	58.8	8.4	4.0	0.01	0.01	2.9
MFC0340	NSA								
MFC0341	6	14	8	57.5	6.3	3.1	0.05	0.04	7.8
IVIFCU341	16	18	2	51.7	17.3	3.3	0.03	0.05	6.4
MFC0342-343	NSA								
MFC0344	8	10	2	56.0	9.5	4.2	0.05	0.03	6.7
MFC0345	2	10	8	54.7	11.0	5.0	0.05	0.02	6.0
WII C0345	22	24	2	50.3	20.8	2.7	0.04	0.06	5.1
MFC0346-347	NSA								
				EMU NORTH					
MFC0349	16	22	6	56.3	11.9	1.3	0.18	0.02	6.3
MFC0350	6	8	2	50.5	18.4	3.5	0.07	0.04	5.8
MFC0351-354	NSA								
MFC0355	0	2	2	51.7	17.7	1.8	0.07	0.07	6.9
IVIFC0355	6	10	4	53.8	15.8	0.8	0.06	0.05	7.2
MFC0356	10	12	2	50.5	20.4	1.5	0.11	0.04	6.5
MFC0357-358	NSA								
		CASSC	WARY DETRI	TALS (above	40% Fe Lo	wer cut)			
	0	24	24	44.9	17.0	8.6	0.03	0.07	9.5
MFC0359 incl.	2	4	2	50.3	14.4	5.2	0.03	0.08	7.5
	14	16	2	50.1	10.7	6.6	0.03	0.07	10.1
	0	28	28	45.2	20.0	7.9	0.04	0.04	7.6
MFC0360 incl.	14	16	2	52.8	12.4	5.5	0.04	0.02	5.7
	26	28	2	52.9	11.8	4.0	0.08	0.01	7.8
MFC0361	0	26	26	42.5	21.2	9.2	0.03	0.05	8.3
MFC0362 incl.	0	18	18	45.5	18.7	7.9	0.02	0.09	7.1
IVII CUSUZ II ICI.	14	16	2	54.7	13.0	2.6	0.03	0.04	6.1
MFC0363 incl.	0	14	14	48.3	15.5	8.5	0.02	0.05	5.6
	8	14	6	55.5	5.9	6.1	0.02	0.06	6.0
MFC0364	0	12	12	42.8	20.2	11.7	0.02	0.03	5.7
MFC0365	8	10	2	42.1	13.6	17.4	0.01	0.13	7.1
MFC0366	14	16	2	40.6	14.6	16.9	0.01	0.07	8.0
MFC0367	NSA								
MFC0368	4	8	4	42.6	21.9	10.7	0.01	0.02	4.8



Table 3

DRILL HOLE COLLAR LOCATIONS

Drill Hole	Easting_MGA94	Northing_MGA94	Dip	Azimuth	Total Depth (m)
MFC0272	788418	6818101	50	90	90
MFC0273	788412	6818101	60	90	72
MFC0274	788402	6818099	60	270	48
MFC0275	788413	6818098	70	270	48
MFC0276	788309	6817857	50	90	90
MFC0277	788297	6817853	55	270	54
MFC0278	788269	6817701	50	90	44
MFC0279	788260	6817701	60	270	30
MFC0280	788220	6817704	55	90	48
MFC0281	788201	6817542	50	90	108
MFC0282	788180	6817553	50	90	54
MFC0283	788189	6817400	50	90	72
MFC0284	788181	6817401	50	270	36
MFC0285	788045	6817100	50	90	36
MFC0286	788006	6816946	50	90	52
MFC0287	788162	6817099	50	90	42
MFC0288	788178	6817177	50	90	54
MFC0289	788128	6816943	50	90	42
MFC0290	788133	6816990	50	90	36
MFC0290	788125	6816993	65	270	36
MFC0292	788122	6817101	55	90	54
MFC0293	788150	6817202	60	90	36
				90	
MFC0294	788088	6816996	55		66
MFC0295	788077	6816998	65	270	42
MFC0296	790148	6823949	60	90	54
MFC0297	790121	6823950	60	90	54
MFC0298	790121	6823950	60	90	48
MFC0299	790216	6823848	60	90	50
MFC0316	790192	6823896	60	90	48
MFC0317	789558	6824451	80	270	66
MFC0318	789553	6824647	73	270	54
MFC0319	789572	6824706	60	270	54
MFC0320	789633	6824690	70	270	72
MFC0321	789637	6824660	70	270	96
MFC0322	789415	6823451	55	270	36
MFC0323	789419	6823252	55	270	90
MFC0324	789413	6823305	55	270	48
MFC0325	789488	6823252	60	270	42
MFC0340	789470	6823212	60	270	36
MFC0341	789491	6823051	55	90	112
MFC0342	789476	6823056	55	270	48
MFC0343	789460	6822996	55	270	60
MFC0344	789447	6822948	55	270	48
MFC0345	789459	6822902	55	270	30



Drill Hole	Easting_MGA94	Northing_MGA94	Dip	Azimuth	Total Depth (m)
MFC0346	789474	6822893	65	270	18
MFC0347	789479	6822946	55	270	24
MFC0348	789629	6824672	70	270	113
MFC0349	786746	6819298	55	315	48
MFC0350	786932	6819429	60	340	48
MFC0351	786894	6819406	55	315	42
MFC0352	786848	6819368	55	315	36
MFC0353	786788	6819368	55	315	36
MFC0354	786803	6819490	60	315	36
MFC0355	786866	6819505	60	345	24
MFC0356	786865	6819495	65	345	24
MFC0357	786834	6819463	55	315	54
MFC0358	786835	6819533	55	315	36
MFC0359	786964	6816765	70	270	36
MFC0360	786986	6816805	60	270	48
MFC0361	786969	6816803	60	270	36
MFC0362	786929	6816807	90	0	30
MFC0363	786900	6816809	90	0	24
MFC0364	786909	6816707	90	0	18
MFC0365	786760	6816683	90	0	18
MFC0366	786758	6816637	90	0	24
MFC0367	786780	6816547	90	0	30
MFC0368	786832	6816327	90	0	30



Table 4

DTR TEST RESULTS
(<8.0% SiO2 at 40µ grind)

Prospect	Hole Number	Down hole depth from (m)	Down hole depth to (m)	Down hole width (m)	% DTR Weight Recovery	Head Fe %	Conc Fe %	Conc SiO <sub>2</sub> %	Conc Al <sub>2</sub> O <sub>3</sub> %	Conc P %	Conc S %	Con c LOI %
		102	112	10	39.6	40.0	70.6	3.3	0.02	0.01	0.00	-2.7
	MFC0303	120	140	19	31.2	37.4	69.8	3.0	0.04	0.01	0.00	-2.4
		232	254	22	42.7	36.3	70.1	3.8	0.08	0.01	0.00	-3.2
		292	392	100	40.5	38.5	70.8	1.9	0.29	0.01	0.00	-3.1
	MFC0309	164	244	80	47.1	35.5	70.0	4.0	0.01	0.01	0.01	-3.2
Echidna		98	102	4	36.2	39.6	71.6	1.9	0.00	0.01	0.01	-2.9
	MFC0310	118	122	4	47.7	35.2	68.7	5.6	0.03	0.01	0.01	-3.1
	Will Coorto	184	188	4	36.6	32.7	68.3	6.9	0.00	0.01	0.01	-3.1
		210	218	8	41.8	31.8	68.8	5.0	0.02	0.02	0.03	-3.0
	MFC0311	128	148	20	47.0	37.6	70.5	3.5	0.00	0.01	0.01	-3.1
		268	314	46	36.6	37.5	72.1	1.4	0.01	0.01	0.00	-3.3
	MFC0243	84	104	20	42.3	37.1	68.0	5.4	0.17	0.01	0.01	-2.5
	MFC0259	92	132	40	33.7	36.3	70.3	2.9	0.01	0.01	0.01	-3.0
		98	112	14	38.1	37.6	68.4	5.3	0.02	0.02	0.03	-3.1
	MFC0260	120	132	12	37.8	36.2	70.8	2.9	0.00	0.01	0.04	-3.2
		140	158	18	34.1	31.7	69.3	4.9	0.00	0.02	0.02	-3.1
	MFC0263	72	112	40	47.6	37.9	70.5	2.9	0.02	0.01	0.02	-3.1
Emu	7711 00200	184	218	34	36.8	37.9	69.3	5.0	0.01	0.01	0.00	-3.1
	MFC0264	80	122	42	35.0	35.5	68.4	5.6	0.00	0.02	0.01	-2.4
		138	182	44	51.5	41.0	70.5	2.6	0.02	0.01	0.28	-3.0
	MFC0265	186	202	16	62.3	45.8	71.1	1.8	0.03	0.01	0.00	-3.1
		246	314	68	43.4	38.2	70.8	2.3	0.02	0.01	0.01	-3.2
	MFC0338	52	114	62	48.4	37.0	70.0	6.0	0.01	0.01	0.01	-3.1
	MFC0339	110	136	26	40.4	36.3	70.3	3.3	0.01	0.01	0.00	-3.1



Table 5
DTR COLLAR LOCATIONS

Drill Hole	Easting MGA94	Northing MGA94	Dip	Azimuth	Total Depth
MFC0303	789688	6824340	60	270	408
MFC0304	789732	6824416	53.9	271.2	169
MFC0309	789804	6824751	70	90.0	357
MFC0310	789809	6824749	66	270	259
MFC0311	789795	6824646	63	70.0	314
MFC0243	786976	522437	55	260.0	168
MFC0259	787027	6816981	54.2	240.0	132
MFC0260	786981	6817123	74.6	260.0	196
MFC0263	787159	6816588	60	270.0	246
MFC0264	787075	6816808	50	270.0	186
MFC0265	787143	6816788	60	270.0	330
MFC0338	787297	6818200	65	270.0	300
MFC0339	787072	6818455	70	270.0	283

#### Infrastructure

The Company continues to make solid progress on approvals, infrastructure planning and negotiations with infrastructure providers.

In October, the first of 12 Miscellaneous Licence applications that constitute an infrastructure corridor from Mt Forrest to Menzies was granted.

Mindax continues with planning so that it is a position to mine DSO in 2013 and magnetite in 2015.

Yours sincerely,

GREGORY J BROMLEY MANAGING DIRECTOR

The information in this report that relates to Exploration Results is based on information compiled by Mr Gregory John Bromley who is a member of the Australasian Institute of Mining and Metallurgy, with more than 5 years experience in the field of activity being reported on. Mr Greg Bromley is a full-time employee of the Company and has sufficient experience which is relevant to the style of mineralisation and type of deposit 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 Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Bromley 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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