

ORE RESERVES AND MINERAL RESOURCES

MANGANESE

estimates as at 31 December 2010

SAMANCOR MANGANESE

The Ore Reserve and Mineral Resource estimates were compiled in accordance with The South African Code for the Reporting of Exploration Results, Mineral Resources and Mineral Reserves, (The SAMREC Code, 2007) and the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code, 2004) as applicable. The figures reported represent 100% of the Ore Reserves and Mineral Resources (source: BHP Billiton). Rounding of figures may cause computational discrepancies.

Samancor Manganese – Operations

ORE RESERVES	Attributable %	LOM	Classification	Tonnes		Grade		Yield	
				2010	2009	2010	2009	2010	2009
GEMCO (OP)⁽¹⁾	40.0	12		Mt	Mt	%Mn	%Mn	%	%
			Proved	63.2	67.5	46.9	46.8	50.7	50.8
			Probable	42.0	43.2	46.4	46.4	47.6	47.9
			Total	105.2	110.7	46.7	46.7	49.5	49.7
Hotazel Manganese Mines⁽²⁾	29.6					%Mn	%Mn		
Mamatwan (OP) ⁽³⁾		22	Proved	48.9	53.6	37.2	37.8		
			Probable	32.0	24.8	37.0	37.2		
			Total	80.9	78.4	37.1	37.6		
Wessels (UG) ⁽⁴⁾		54	Proved	5.0	5.1	45.1	45.5		
			Probable	76.4	68.4	42.9	43.0		
			Total	81.4	73.5	43.1	43.2		

Samancor Manganese – Operations

MINERAL RESOURCES	Attributable %	Classification	Tonnes		Grade		Yield	
			2010	2009	2010	2009	2010	2009
GEMCO (OP)⁽⁵⁾	40.0		Mt	Mt	%Mn	%Mn	%	%
		Measured	67.0	71.2	46.3	46.3	44.4	44.4
		Indicated	45.5	46.6	45.9	46.0	43.9	44.0
		Measured and Indicated	112.4	117.9	46.2	46.2	44.2	44.2
		Inferred	38.9	39.0	43.3	43.3	45.2	45.2
Hotazel Manganese Mines	29.6				%Mn	%Mn		
Mamatwan (OP) ⁽⁶⁾		Measured	68.9	79.6	35.6	35.8		
		Indicated	54.7	45.3	34.6	34.3		
		Measured and Indicated	123.6	124.9	35.2	35.3		
		Inferred	4.2	3.1	34.4	33.1		
Wessels (UG) ⁽⁷⁾		Measured	14.6	12.1	45.8	46.3		
		Indicated	128.4	132.0	44.2	44.2		
		Measured and Indicated	143.0	144.1	44.4	44.4		
		Inferred	–	–	–	–		

THE MINERAL RESOURCES INCLUDE ORE RESERVES

Samancor Gabon – Projects

MINERAL RESOURCES	Attributable %	Classification	Tonnes		Grade		Yield	
			2010	2009	2010	2009	2010	2009
Franceville Project – Beniomi⁽⁸⁾	40.0		Mt	Mt	%Mn	%Mn	%	%
Plaquette Ore		Measured	11.0	–	36.1	–	72.0	–
		Indicated	6.6	–	36.1	–	74.4	–
		Measured and Indicated	17.5	–	36.1	–	72.9	–
		Inferred	2.9	–	36.1	–	71.8	–
Transition Ore		Measured	4.1	–	24.3	–	73.1	–
		Indicated	2.4	–	24.5	–	75.1	–
		Measured and Indicated	6.5	–	24.4	–	73.8	–
		Inferred	5.0	–	24.2	–	68.4	–
Franceville Project – Bordeaux⁽⁸⁾	40.0				%Mn	%Mn		
Plaquette Ore		Measured	4.6	–	36.4	–	72.0	–
		Indicated	0.8	–	36.1	–	67.8	–
		Measured and Indicated	5.4	–	36.4	–	71.4	–
		Inferred	0.8	–	36.8	–	69.5	–
Transition Ore		Measured	2.3	–	24.7	–	74.0	–
		Indicated	0.5	–	24.1	–	70.3	–
		Measured and Indicated	2.8	–	24.6	–	73.3	–
		Inferred	1.8	–	25.1	–	67.1	–

Mining method: OP = Open Pit, UG = Underground, LOM = Life of Mine in years based on scheduled Ore Reserves.

Due to the uncertainty that may be attached to some Inferred Mineral Resources, it cannot be assumed that all or part of an Inferred Mineral Resource will necessarily be upgraded to an Indicated or Measured Resource after continued exploration.

⁽¹⁾ **GEMCO – Ore Reserves:** Manganese grades are given as per washed ore samples and should be read together with their respective yields.⁽²⁾ **Hotazel Manganese Mines:** An agreement has been reached between Samancor Manganese and empowerment consortium Ntsimbintle Mining Pty Ltd. The Ntsimbintle agreement has been signed by both parties and approved by the South African Government. This transaction allows for the inclusion of part of the Prospecting Rights held by Ntsimbintle into the Mamatwan and Wessels Mining Areas in exchange for 9% equity in Hotazel Manganese Mines (Pty) Ltd, thereby adding the Ore Reserves of Mamatwan and Wessels within the Ntsimbintle Prospecting Right to the Mamatwan and Wessels Mining Rights. Section 102 applications have been lodged with the South African Department of Mineral Resources (DMR) to amend the Mamatwan and Wessels Mining Rights areas to include the Ntsimbintle Prospecting Right. Hotazel Manganese Mines (Pty) Ltd is the owner of Mamatwan and Wessels mines. The other 26% is held by: Ntsimbintle (9%), NCAB (7%), Iziko (5%) and the HMM Education Trust (5%). The addition of other empowerment consortiums during 2010 has diluted Anglo American's share in Hotazel Manganese Mines (Pty) Ltd to 29.6%.⁽³⁾ **Mamatwan – Ore Reserves:** The increase is attributable to the revised wireframe used in the latest block model. The calculation of the Ore Reserves has been aligned with the updated mine plan.⁽⁴⁾ **Wessels – Ore Reserves:** The increase is ascribed to a revised smaller support pillar factor in the West Block (18% versus a previous factor of 25%) and the new block model. The calculation of the Ore Reserves has been aligned with the updated mine plan.⁽⁵⁾ **GEMCO – Mineral Resources:** No additional drilling data was added during 2010. All changes are as a result of depletion due to mining.⁽⁶⁾ **Mamatwan – Mineral Resources:** Changes are due to the use of a new resource model now covering the entire Ntsimbintle joint venture area.⁽⁷⁾ **Wessels – Mineral Resources:** A new resource model has been used to estimate Mineral Resources.⁽⁸⁾ **Beniomi and Bordeaux:** Mn grades are for +0.15mm screen size fraction and should be read together with their respective tonnage yields. These areas were prospected using drilling and pitting by CVRD (Vale) from 2003 to 2005 and subsequently by Samancor Gabon. A programme of large diameter bucket auger and Mini sonic drilling was conducted on the Beniomi and later the Bordeaux Plateaux focused on providing Pilot Plant feed. In addition, a regional exploration programme using RAB drill rigs was undertaken on surrounding plateaux. Gemecs (Pty) Ltd prepared geological models and resource estimates for Beniomi and Bordeaux, which are the only areas for which Mineral Resources have been declared. Pilot Plant testwork results have informed the opinion as to eventual economic viability of the Mineral Resources as reported. The greater project comprises of a number of wide-spread prospecting permits and prospecting authorisations. In time, the project is envisaged to include a number of shallow open pit mines located on a number of plateaux feeding a processing plant complex made up of scrubbing and DMS sections and producing both high grade lump and fine ores.