

# HORIZONTE

---

## MINERALS

25<sup>th</sup> September 2007

### **Horizonte Minerals plc ('Horizonte' or 'the Company') Drilling results highlight gold potential of Brazilian project**

Horizonte Minerals plc, the AIM listed exploration and development company focussed on Brazil and Peru, is pleased to announce positive results from the second phase drilling at its 100% owned 300 sq km Tangara gold project in Brazil. These results, in tandem with previous work, underpin the Company's belief that the Tangara gold project has the potential to contain a number of small to medium size gold deposits which can be developed from a central plant similar to the nearby Andorinhas gold project operated by Troy Resources.

#### **Highlights:**

- **DDH13 - 12m grading 5.0 g/t Au from 89 m downhole including; 2m grading 18.7 g/t (0.6 oz/t) Au, with 13 g/t Ag**
- **DDH14 - 2m @ 4.8 g/t Au**
- **DDH23 - 2m @ 4.25 g/t Au**
- **DDH24 - 4m @ 2.4 g/t Au**
- **Currently developing 5 further targets within 3.5 km of the Gerson Pit**

The 14 hole drill programme totalling 1,723m, tested a number of geochemical and geophysical targets around the Malvinas Zone on the Tangara concession. The main focus of the drilling was around the discovery hole DDH-04, drilled in late 2006 on the Gerson Pit, which returned 35m grading 2.5 g/t Au. The principle economic gold intersections are highlighted below - all other holes returned elevated gold, silver and zinc values but only at pathfinder levels.

The results from DDH-13 and DDH-14 demonstrate the potential for mineralisation in the Tangara Project area to generate ore zones of significant width for open pit mining and with high grade intervals that that would be amenable to underground mining.

DDH-13 is situated 60m west of DDH-04, the discovery hole. Mineralisation in DDH-13 is similar in style and produced 12m @ 5.0g/t, including 2m grading 18.7g/t, within a 16m wide alteration zone. Drilling has also confirmed the association of zinc and silver enrichment associated with the gold mineralisation as indicated by DDH-04. Further analysis will determine the true significance of this association. In DDH-13 zinc values averaged 0.24% and reach a peak of 0.55% in the gold zone. Silver over the same 12m interval averaged 7.8g/t with a peak value of 17.3g/t.

#### **Horizonte Minerals Plc**

# HORIZONTE

## MINERALS

Drillhole	From (m)	To (m)	Int(m)	Au (g/t)	Zn (%)	Ag (g/t)	Highlights
DDH_13	89.0	90.0	1.0	2.4	0.0	4.1	12m @ 5.0g/t incl 2m @ 18.7g/t
	90.0	91.0	1.0	3.5	0.1	6.9	
	91.0	92.0	1.0	1.1	0.5	4.2	
	92.0	93.0	1.0	2.5	0.5	6.5	
	93.0	94.0	1.0	10.4	0.1	12.5	
	94.0	95.0	1.0	17.3	0.1	13.9	
	95.0	96.0	1.0	3.7	0.1	5.4	
	96.0	97.0	1.0	3.7	0.1	4.1	
	97.0	97.8	0.8	2.3	0.2	5.1	
	97.8	98.7	0.9	2.4	0.4	6.5	
	98.7	99.7	1.0	2.4	0.0	4.1	
99.7	101.0	1.3	1.6	0.6	17.3		

Hole DDH-14, 60m to the west of DDH-13, hit a wide zone of sulphide mineralisation from 38m to 86.4m, cut by a 14.65m wide post-mineralisation dyke from 58.75m to 73.4m. On the hanging wall side of the dyke, results included a 12m zone @ +0.7% Zn with 0.47g/t Au. (This zone includes 4 one metre intervals assaying greater than the upper limit of detection of 1% Zn. These samples are currently being re-analysed). Close to the dyke and in the footwall, mineralisation is weaker. The unexpectedly shallow intersection of the mineralised zone and influence of the dyke are still being evaluated. A second mineralised zone in the hole produced a 2m @ 4.6g/t Au at 106m centred within a 15.4m zone averaging 0.5%Zn. The structure remains open to the west.

Drillholes DDH-24 & DDH-25, drilled below holes DDH-04 & DDH-13 respectively, intersected the mineralised zones. DDH-24 gave a 17m zone with sulphides including 4m @ 2.5g/t Au at 122m within a 6.5m wide 0.4% Zn halo. DDH-25 returned 11.7m zone with sulphides including 4m @ 1.4g/t Au at 128m above a 4m wide 0.3% Zn halo.

DDH	From (m)	To (m)	Int(m)	Au (g/t)	Zn (%)	Ag (g/t)	Highlights
DDH-14	106.0	108.0	2.0	4.6	0.9	3.2	2m @ 4.8g/t Au
DDH-23	12.0	14.0	2.0	0.0	0.6	3.2	
	14.0	16.0	2.0	0.0	0.9	1.9	
	16.0	18.0	2.0	2.3	0.2	1.4	2m @ 2.3g/t Au
	150.0	152.0	2.0	4.3	0.0	0.5	2m @ 4.3g/t Au
DDH-24	120.0	122.0	2.0	0.5	0.5	1.7	
	122.0	124.0	2.0	2.3	0.1	4.5	4m @ 2.4g/t Au
	124.0	126.0	2.0	2.6	0.1	3.6	
	126.0	127.5	1.5	0.6	0.4	5.4	

### Horizonte Minerals Plc

# HORIZONTE

## MINERALS

DDH-25	128.0	130.0	2.0	1.1	0.0	0.7	4m @ 1.4g/t Au
	130.0	132.0	2.0	1.8	0.1	1.7	
	132.0	133.0	1.0	0.1	0.9	5.3	

The Troy Andorinhas project represents a benchmark for Tangara. Troy purchased its project in November 2006 for US\$10.14 million cash (Troy PR 16, Nov. 2006). Lagoa Seca deposit contains indicated and inferred resources of 700,000 t grading 2.8 g/t Au for 64,000 oz. Troy is developing this with other gold deposits on the project. Open-pit modelling on Lagoa Seca has defined a probable reserve of 480,000 t grading 3.1 g/t Au for 48,320 oz (Source Troy Quarterly Report ended 30 June 2007).

It is Horizonte's management's belief that the Tangara project has the equal potential to define a number of small to medium size gold deposits of between 100,000 and 250,000 oz that can be developed from a central plant. Total resources for example at Andorinhas are 3,997,000 t grading 3.4 g/t Au in 3 deposits for total in-situ contained gold of 435,000 oz. (Source Troy Quarterly Report ended 30 June 2007).

Horizonte is currently evaluating the drill results and is developing 5 other targets within 3.5 km of the Gerson Pit. The Company controls 100% of the Tangara project and is well financed to develop these targets to early resource status along with the Gerson discovery.

Horizonte CEO Jeremy Martin said, "These drill results are exciting as they demonstrate that there is continuity to gold mineralisation at the Gerson Pit target, which is also similar in style to that found at the Andorinhas gold project. Within the structure, we have identified zones of high grade gold within a broader low grade envelope which supports our geological model for the area. The mineralised system is more complex than originally anticipated and will require far closer spaced drilling than undertaken to date to take it through to resource definition, as currently underway at Andorinhas. To date Horizonte has tested only 3 of the 8 target areas identified within the 5km target area that forms the Malvinas Trend. There are also several other high priority targets within the wider project area, for example the Pampeana target 10km to the south west of Malvinas that will undergo follow up."

### Sampling, assaying, and QA/QC

Procedures adopted by Horizonte in the collection, preparation and storage of samples from the auger drilling programme, conform to industry-wide best practice and with chain of custody being observed for all samples. Analysis is undertaken by ALS Labs at its laboratories in Vancouver, Canada, and the Company maintains QA/QC on all analytical work via the inclusion of certified reference materials and field duplicates and blanks, in addition to monitoring of the laboratory's own internal check-analyses.

### Horizonte Minerals Plc

# HORIZONTE

---

MINERALS

The above information has been reviewed and verified by Mr. Jeremy Martin, a Director and Chief Executive of Horizonte, for the purposes of the Guidance Note for Mining, Oil and Gas Companies issued by the London Stock Exchange in March 2006. Mr. Martin, with six years of mining and management experience, graduated with a degree in geology from the Camborne School of Mines, and an MSc in mineral exploration from the University of Leicester and is a member in good standing with the Society of Economic Geologists and the Institute of Mining Analysts.

**\*\* ENDS \*\***

For further information visit [www.horizonteminerals.com](http://www.horizonteminerals.com) or contact:

Jeremy Martin/David Hall	Horizonte Minerals plc	Tel: 020 7495 5446
David Paxton	Hichens Harrison	Tel: 020 7382 7785
Hugo de Salis	St Brides Media & Finance Ltd	Tel: 020 7242 4477
John Frain/Fergal Meegan	Davy	Tel: +353 1 679 6363

#### **Notes to Editors:**

Horizonte Minerals Plc is an AIM listed exploration and development company focussed on gold, silver and base metal opportunities in Brazil and Peru. It aims to become, through experience and a track record of discovery success, to become the preferred exploration partner for Major gold and base metal mining companies, in the region.

The Group's has two flagship gold exploration projects in Brazil, a one silver-zinc-lead project in Peru as well as additional gold, zinc and nickel exploration projects in Brazil. The two Brazilian gold projects, Tangara and Falcao, south of the highly prospective Carajas Mineral Province each cover an area of approximately 300 sq km and are centred over greenstone belts, with known gold mineralisation. The scale of these project areas, early results, the overall aerial extent of the mineralised system and the high density and magnitude of related gold anomalies, indicate the potential for multiple deposit discoveries.

The El Aguila silver-zinc-lead project is located in the historic mining district of Cerro de Pasco in Central Peru. Drilling has demonstrated the high grade potential of this project. Additional projects include the 4,660 hectare on the prospective Achaean aged Crixas greenstone belt, where multiple nickel-copper anomalies have been defined and the 25,556 hectare Lontra Ni Project situated in the Araguaia mobile belt, which flanks the eastern margin of the Carajas Mineral Province of northern Brazil.

#### **Horizonte Minerals Plc**