



## Antioquia Gold Announces Results of Preliminary Metallurgical Testing at Cisneros Project

**December 8, 2010, Calgary, Alberta:** Antioquia Gold Inc. (TSX-V: AGD) today announced the results of the preliminary metallurgical assessment completed on the gold bearing rocks on its flagship property as well as Acid Based Accounting (ABA) tests, the Cisneros Project located in Antioquia, Colombia. The various recovery methods tested indicate that gold recoveries in excess of 90% are easily achievable.

The metallurgical testing was performed by G&T Metallurgical Services of Kamloops, B.C., and the Acid Based Accounting tests by Inspectorate America Corp. of Sparks, Nevada.

“We are highly encouraged with the results from our preliminary metallurgical testing at Cisneros Project,” commented President and CEO, Richard Thibault. “It indicates to us that standard and simple mineral processing techniques can be applied to the ore. Further testing will be conducted once bulk samples can be obtained to determine optimal crushing and grinding size, the flotation parameters and the leaching process.”

### Gold Recovery

Four composite samples from two general locations within the Cisneros Project were collected and tested by G&T Metallurgical Services.

Three recovery methods were conducted on each of the four composite samples:

- gravity concentration;
- flotation; and
- cyanide leaching.

The gold content in the three composites from the current exploration areas of Guayabito-Guaico-Nus were relatively high (17.9 g/t to 43.5 g/t), while the sample from the Sur America area, located approximately 3 kilometres to the north of the other three composite samples, in a different geological setting, contained 2.98 g/t.

The results obtained are shown below:

Composite	Feed Gold g/t	Gravity Concentration			Leach		Flotation		
		Mass %	Grade g/t	Recovery %	Grade mg/l	Recovery %	Mass %	Grade g/t	Recovery %
Guaico	17.9	0.7	1194	42	9	94	3.5	578	97
Guayabito	38.1	0.3	3680	26	16	95	9.9	408	96
Sur America	2.98	0.5	97	14	1	64	7	50	91
Papi	43.5	1.1	2073	48	25	97	24.3	143	88

All composites, with the exception of the one from Sur America, responded well to gravity concentration with recoveries ranging from 26% to 48% and concentrates grading from 1,194 g/t to 3,680 g/t gold.



The same three ores that responded well to gravity concentrate also responded well to cyanide leaching with extractions ranging from 94% to 97%. The material was first ground to a nominal  $K_{80}$  of 100 microns. Cyanide consumption was in the range of 0.2 kg/t to 1.2 kg/t with the exception of Guaico, which was 6.1 kg/t, likely due to the presence of some reactive copper minerals.

Flotation gave high recoveries for all four samples with recoveries to a bulk concentrate of 88% to 97%. Concentrate grades were 143 g/t to 578 g/t gold excluding Sur America which, with its lower feed grade, gave a 50 g/t concentrate.

A variety of options appear to be available for treating the ore and maximizing the recovery of gold. All three processes are standard and widely used in gold mining. The Company expects a combination of the three processes (gravity concentration, flotation and cyanide leaching) would be applied to ensure maximum recovery of the gold. Gold companies in Colombia typically favour the gravity + flotation concentration circuit to produce a high grade concentrate. The combined concentrates then undergo cyanide leaching that offers certain advantages.

Further testing will be conducted once bulk samples from underground exploration tunnels can be obtained during 2011. These sets of testing will be to determine optimal crushing and grinding size, the flotation parameters and the leaching process.

### **Acid Based Accounting Results**

A total of 12 random samples in waste rock and some ore zones were sent to Inspectorate America Corp. to be tested to determine its acid generating potential in the waste dumps and tailings ponds.

The average pH of the 12 samples was 8.62 with an average total sulfur content of 1.40%. The majority of the samples were not net acid generators, but some were and further studies on appropriate action will be necessary to prevent possible acid production.

### **Qualified Person**

This report and the tests were conducted under the guidance of Dr. John Thomas, P.Eng., a member of the Association of Professional Engineers and Geoscientists of British Columbia and a qualified person pursuant to National Instrument 43-101, Standards for Disclosure for Mineral projects; he has also reviewed the technical information disclosed in this news release.

### **About Antioquia Gold Inc.**

Antioquia is a precious metal exploration company with projects in Colombia since 2007. Antioquia's principal asset, which is being actively explored, is its Cisneros Project, located 70 kilometres northeast of Medellin in the Department of Antioquia, Colombia. At the Cisneros Project the Company has drilled over 12,000 metres, conducted extensive geophysical programs and is well versed in the understanding of the deposit type and the project's path to production. The Cisneros Project consists of 5,630 hectares and forms the nucleus of the Company's 37,500 hectare land package located throughout Colombia.



For further information on Antioquia Gold Inc., visit our website at [www.antioquiagoldinc.com](http://www.antioquiagoldinc.com) or contact

**Rick Thibault**, President  
**Antioquia Gold Inc.**  
403-457-GOLD  
[rthibault@antioquiagoldinc.com](mailto:rthibault@antioquiagoldinc.com)

**Cathy Hume**  
**CHF Investor Relations**  
416-868-1079 x231  
[cathy@chfir.com](mailto:cathy@chfir.com)

**Bob Leshchyshen**  
**CHF Investor Relations**  
416-868-1079 x223  
[bob@chfir.com](mailto:bob@chfir.com)

To receive Company news by email, contact [holly@chfir.com](mailto:holly@chfir.com) and mention “Antioquia Gold” news in the subject line.

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