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SOLITARIO INTERSECTS 10.8 METERS OF HIGH-GRADE GOLD MINERALIZATION ON ITS MERCURIO PROJECT IN BRAZIL

Denver, Colorado: Solitario Resources Corporation (AMEX:XPL;TSX:SLR) today announced the results of its recently completed third round of drilling on its 100%-owned Mercurio gold project in northern Brazil. Highlights include core holes SB-25 that intersected 10.4 meters grading 8.0 grams per tonne ("g/t") gold and SB-35 that intersected 2.0 meters of 10.1 g/t gold. In total, six of the thirteen widely spaced drill holes intersected significant gold mineralization in this program. Mercurio drilling results are provided in the table below and a drill hole location map can be accessed at <http://www.solitarioresources.com/art/mercurio0508.jpg>

Mercurio Drill Hole Assay Results

Prospect Name	Hole Number	From Meters	To Meters	Interval Meters	Gold Grade g/t
Colonia	SB-25	6	8	2	1.8
	And	48.1	58.5	10.4	8.0
	including	52.0	57.6	5.6	12.8
Colonia	SB-26	99.6	103.7	4.1	4.2
Patoa	SB-29	77.0	83.0	6.0	1.6
Patoa	SB-31	43.6	48.0	4.4	1.7
	And	111.0	112.0	1.0	4.0
Tucanare	SB-33	124.0	125.0	1.0	2.1
Colonia	SB-35	49.0	51.0	2.0	10.1
		65.0	68.9	3.0	1.2
		72.0	74.0	2.0	1.2

No estimate of true width of mineralized intercepts shown above can yet be made.

A total of 36 drill holes have thus far tested three principal target areas: the Colonia, Patoa and Tucanaré prospects. At the main Colonia trend, a mineralized east-west structure has been traced by drilling for about 500 meters. This trend remains open in both directions along horizontal strike and at depth. Of the two holes drilled this year at the new Jamil prospect in the southern part of the Colonia area, one contained 10.4 meters of 8 g/t gold. The one hole drilled in another completely new area, Dorado, in the northern part of the Colonia area intersected 10.1 g/t over 2 meters.

At Patoa, previously announced drill holes SB-04, that intersected 12.2 meters grading 12.2 g/t gold, and SB-18, that intersected 34 meters grading 2.7 g/t gold, may represent the same mineralized trend. In addition, SB-20, that contained 25.5 meters of 1.6 g/t gold, was drilled 600 meters west of the main Patoa area and represents significant untested potential of the Patoa zone. Finally, at the Tucanaré prospect, all five drill holes have intersected gold mineralization.

Chris Herald, President and CEO of Solitario, stated, "Our work at Mercurio continues to provide exceptionally high percentage of drill holes intersecting significant gold mineralization. The footprint of mineralization at Mercurio, as demonstrated by anomalous gold concentrations in soils, is extremely large measuring at least five kilometers by four kilometers. Given the gold grades we have encountered, the potential for expanding mineralization and the project's relatively easy road access, Mercurio is one of the more attractive projects in the Tapajos region. We are very excited about the future potential of this gold project and are evaluating our results to determine what direction we will take during the remainder of 2008."

The Mercurio project is located in the Tapajos gold region of northern Brazil where an estimated 30 to 40 million ounces of gold has been produced by local small-scale mining of soils. The property has relatively easy access by a seasonal unpaved road that services the region. On the 8,550-hectare Mercurio property, informal gold production from saprolite soils by local miners has occurred in approximately a dozen different localities during the past ten years. Geochemical sampling and geophysical magnetic and IP surveys conducted by Solitario indicates mineralization extends beyond the current drill pattern.

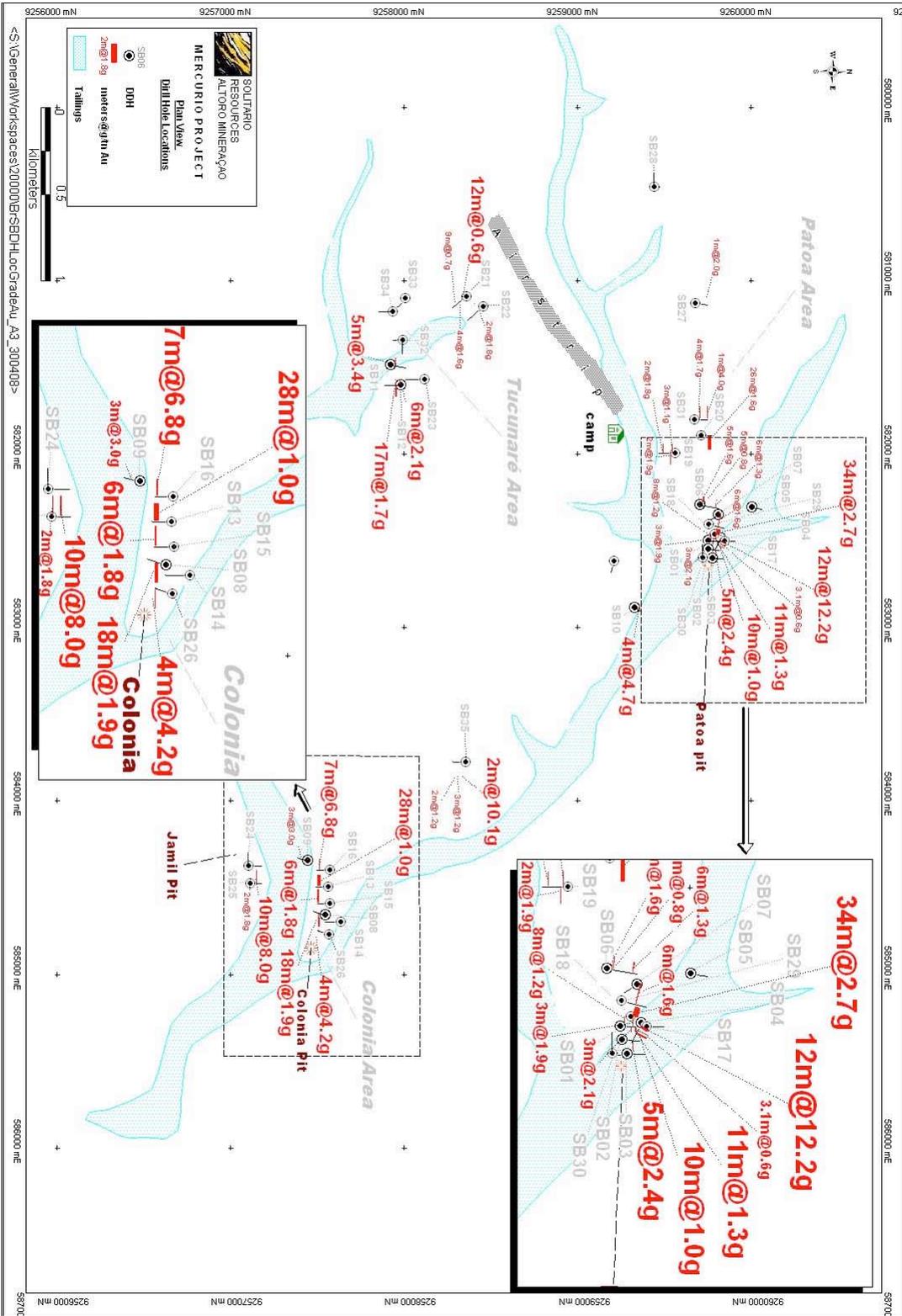
The drill hole information contained within this release is reported under a quality control program supervised by Mr. Walt Hunt, Vice President of Operations for Solitario Resources Corporation, who is a qualified person as defined by National Instrument 43-101. Samples are derived from 50% splits of HQ and NQ (2.5 and 1.9 inch) diameter core. Samples are then shipped via secured third-party land and air transportation companies and analyzed by ALS Chemex Inc., North Vancouver, Canada, an ISO9002 registered company. In addition to the laboratory's quality control program, a check assay program is ongoing.

Solitario is a gold, silver, platinum-palladium, and base metal exploration company actively exploring in Peru, Brazil and Mexico. Solitario is traded on the American Stock Exchange (AMEX: XPL) and on Toronto Stock Exchange (TSX: SLR).

FOR MORE INFORMATION, CONTACT:

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This press release includes certain "Forward-Looking Statements" within the meaning of section 21E of the United States Securities Exchange Act of 1934, as amended. All statements, other than statements of historical fact, included herein, including without limitation, statements regarding potential mineralization and reserves, exploration results and future plans and objectives of Solitario, are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Development of any of Solitario's properties is subject to the success of exploration, completion and implementation of an economically viable mining plan, obtaining the necessary permits and approvals from various regulatory authorities, and compliance with operating parameters established by such authorities. Important factors that could cause actual results to differ materially from Solitario's expectations are disclosed under the heading "Risk Factors" and elsewhere in Solitario's documents filed from time to time with Canadian Securities Commissions, the United States Securities and Exchange Commission and other regulatory authorities.



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