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## **SOUTHERN HEMISPHERE REPORTS POSITIVE SAMPLING RESULTS FROM KEY COPPER/GOLD PROJECTS IN CHILE**

### ***DRILLING PROGRAM EXPANDED TO INCLUDE EL ARRAYAN PROJECT***

#### **KEY POINTS:**

- **Copper grades of up to 3.45% and length weighted average grade of 1.40% Cu from underground channel sampling at the El Arrayan Project**
- **Results confirm El Arrayan as an additional drilling target, to be included in the forthcoming copper-gold exploration drilling program**
- **Highest gold grade of 14.0 g/t Au over a 3 metre interval and 4.58% Cu over a 4 metre interval achieved from underground sampling at the Mantos Grandes project with a length weighted average grade from sampling of 4.58g/t Au and 1.56% Cu**
- **New results provide immediate, easy access drilling targets to be included in the forthcoming drilling programme.**

Southern Hemisphere Mining Limited (“Southern Hemisphere” or “Company”) is pleased to report positive results from sampling of old workings at two projects within its extensive portfolio of copper and copper-gold projects in Chile, as it prepares to commence a major drilling program on selected targets.

The new results, from the El Arrayan and Mantos Grandes Projects in Chile, have reinforced the prospectivity of these projects and resulted in the inclusion of the El Arrayan Project in Southern Hemisphere’s forthcoming drilling program.

The Company is set to launch major exploration drilling programs at the Chitigua, Santa Gracia/Chacay and Mantos Grandes Projects following a \$20 million capital raising announced on 27 October 2010.

This capital raising was designed to fund immediate drilling programs at several walk-up copper and copper-gold targets, while enabling Southern Hemisphere to continue to progress its flagship Los Pumas Manganese Project in Chile and assess a newly acquired iron sands project.

## El Arrayan Project

As part of recent field reconnaissance at the 87km<sup>2</sup> El Arrayan Project, which is located in the Elqui Valley 40km south-east of the regional capital city of La Serena, Southern Hemisphere undertook channel sampling within a set of underground galleries, approximately 50m below surface, previously excavated by artisanal miners.

The channel samples were extracted along the gallery walls and backs and submitted to Andes Analytical Assay Laboratory for analysis. Both gold and copper analysis methods were by Atomic Absorption Spectrometry.

The assay results produced a length weighted average grade of the samples taken of 1.40 % Cu, with a highest copper grade of 3.45% Cu and a lowest of 0.004% Cu. Full results are shown in Table 1 below:

**Table 1: El Arrayan Analysis Results**

ID	Easting	Northing	Length m	Cu%
A1	305559	6668678	1.5	0.004
A2	305563	6668665	6.5	0.390
A3	305566	6668663	5.0	1.837
A4	305569	6668661	2.5	<b>2.589</b>
A5	305571	6668658	4.0	0.289
A6	305572	6668656	4.0	0.658
A7	305573	6668652	4.0	0.713
A8	305572	6668646	4.0	0.473
A9	305575	6668637	2.5	0.963
A10	305582	6668631	6.0	<b>2.746</b>
A11	305586	6668635	5.5	1.548
A12	305587	6668640	3.0	<b>2.179</b>
A13	305579	6668643	5.0	1.509
A14	305587	6668645	2.7	<b>3.449</b>
A15	305592	6668650	5.5	1.663
A16	305599	6668652	8.0	1.725
A17	305591	6668652	2.5	<b>2.316</b>
A18	305589	6668656	4.0	1.240
A19	305587	6668658	4.0	0.804
A20	305584	6668663	4.0	1.435
A21	305584	6668668	5.0	0.541
A22	305581	6668677	4.0	1.288
A23	305577	6668674	3.2	1.892
A24	305579	6668672	2.5	<b>2.334</b>

A25	305568	6668664	5.5	1.924
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These sampling results confirm El Arrayan as an additional drill target and justify its immediate inclusion as a priority drilling target in the forthcoming exploration drilling program.

The El Arrayan Project lies within the Coastal Cordillera of north central Chile and is in an identical geological setting to the Teck/Cominco's Andacollo copper mine, which is located 12km to the south. The mineralisation at El Arrayan is found in disseminated copper oxides and the host rock is an intrusive medium grained monzo diorite porphyry.

## Mantos Grandes

As part of preparatory exploration field work prior to the commencement of drilling, Southern Hemisphere also undertook sampling of underground galleries at the La Demonia site at the Mantos Grandes Project, which is located 85km by road from the city of Ovalle and approximately 90km south-east of La Serena.

Underground galleries at the La Demonia site were assessed and channel samples taken along the wall and backs of these headings, which are about 35 metres below the surface. These samples were submitted to Andes Analytical Assay Laboratory for analysis.

The assay results produced a length weighted average grade from the samples of 4.58 g/t Au and 1.56% Cu. The highest copper grade was recorded from sample D20, which contained 4.58% Cu over a four metre interval and the highest gold grade was 14.0 g/t Au over a three metre interval. Full results are shown in Table 2 below:

**Table 2: Mantos Grandes Analysis Results**

ID	Easting	Northing	Length m	Au g/t	Cu %
D1	351739	6583945	2	0.12	0.053
D2	351742	6583946	4	<b>3.96</b>	1.775
D3	351746	6583947	4	<b>4.60</b>	2.042
D4	351747	6583948	2	0.64	0.360
D5	351748	6583949	4	<b>11.35</b>	0.611
D6	351751	6583946	4	0.42	0.269
D7	351757	6583945	5	0.44	0.377
D8	351756	6583950	4	1.30	0.330
D9	351758	6583953	4	1.49	0.808
D10	351762	6583955	4	1.64	0.692
D11	351764	6583956	4	1.53	0.647
D12	361756	6583955	3.5	<b>9.12</b>	1.585
D13	351755	6583957	3	<b>8.40</b>	<b>3.222</b>
D14	351757	6583960	3	<b>14.00</b>	<b>2.744</b>
D15	351761	6583961	5	<b>4.19</b>	1.569
D16	351755	6583962	3	<b>6.72</b>	<b>2.557</b>

D17	351751	6583961	3	2.54	1.920
D18	351749	7583965	4	0.06	0.022
D19	351749	6583960	3	<b>6.57</b>	0.980
D20	251743	6583957	4	<b>9.73</b>	<b>4.576</b>
D21	351752	6583954	3	<b>6.94</b>	<b>3.193</b>
D22	351752	6583951	3	<b>13.39</b>	<b>4.545</b>
D23	351740	6583949	4	0.33	1.932

Mantos Grandes has gravel road access, power and water supply and basic camp facilities. The project area includes 35km<sup>2</sup> of exploitation concessions and 19km<sup>2</sup> of exploration concessions.

The project includes the old workings of a small-scale skarn-hosted underground mine, which recovered gold and copper in a 200 tonne per day float plant. The mine was closed in 2000 when copper and gold prices were depressed.

The project is situated between the Loica and Mollacas Cu-Au porphyry systems at elevations of approximately 2,500 metres. The host lithology is a garnet-rich skarn and the copper mineralisation is in an oxide form and disseminated.

These results provide a drill target that will be assessed along with others that are currently being investigated. Site access is easy and preparation for initiating a drill campaign will be minimal.

**Neither TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this press release.**

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Competent Person's Statement

The details contained in this report pertain to information compiled by Mr. Trevor Tennant, a full time employee of the Company and who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Tennant has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the December 2004 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Tennant consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.