



# MORE HIGH-GRADE COPPER RESULTS FROM CHANNEL SAMPLING AT LOS RULOS JV, CENTRAL CHILE

*Project further expanded with additional exploration concession areas acquired for no consideration*

## Highlights

- ❖ More strong results from recently completed surface sampling program within the Armandino Prospect, Los Rulos JV (central Chile), with highlights including:
  - 1.5m channel sample @ 3.18% Cu and 0.44 g/t Au
  - 5.0m channel sample @ 2.49% Cu and 0.65 g/t Au
  - 5.0m channel sample @ 2.36% Cu and 0.54 g/t Au
  - 5.0m channel sample @ 2.13% Cu and 0.51 g/t Au
  - 2.0m channel sample @ 2.20% Cu and 0.20 g/t Au
  - 5.0m channel sample @ 1.74% Cu and 0.13 g/t Au
  - 5.0m channel sample @ 1.68% Cu and 0.40 g/t Au
  - 4.0m channel sample @ 1.39% Cu and 0.35 g/t Au
  - 5.0m channel sample @ 1.09% Cu and 0.30 g/t Au
  - 5.0m channel sample @ 0.73% Cu and 0.42 g/t Au
- ❖ Results help to further define drill targets ahead of upcoming drilling campaign.
- ❖ Los Rulos Project exploration concession area increased to 2,200 hectares with additional areas acquired for no consideration.

Southern Hemisphere Mining Limited (ASX: **SUH**) ("Southern Hemisphere" or the "Company") is pleased to report further significant high-grade copper results from an extensive sampling program completed recently over some of the concession areas within its recently established Los Rulos 50/50 Joint Venture with Lundin Mining Corporation (TSX: LUN) ("Lundin Mining").

The channel samples included several high-grade copper results over significant widths, as summarised in the table above. Drilling is planned to commence within the Los Rulos JV area during the April - June 2014 Quarter. Full results of the 137 Armandino channel samples are appended to this News Release.

Southern Hemisphere's Managing Director, Mr Trevor Tennant, said that the results were encouraging and further reinforced the prospectivity of the area, while also helping to define drill targets. We are now awaiting the remaining sample results, which were mainly taken in the newly acquired El Che section of Los Rulos exploration concessions.



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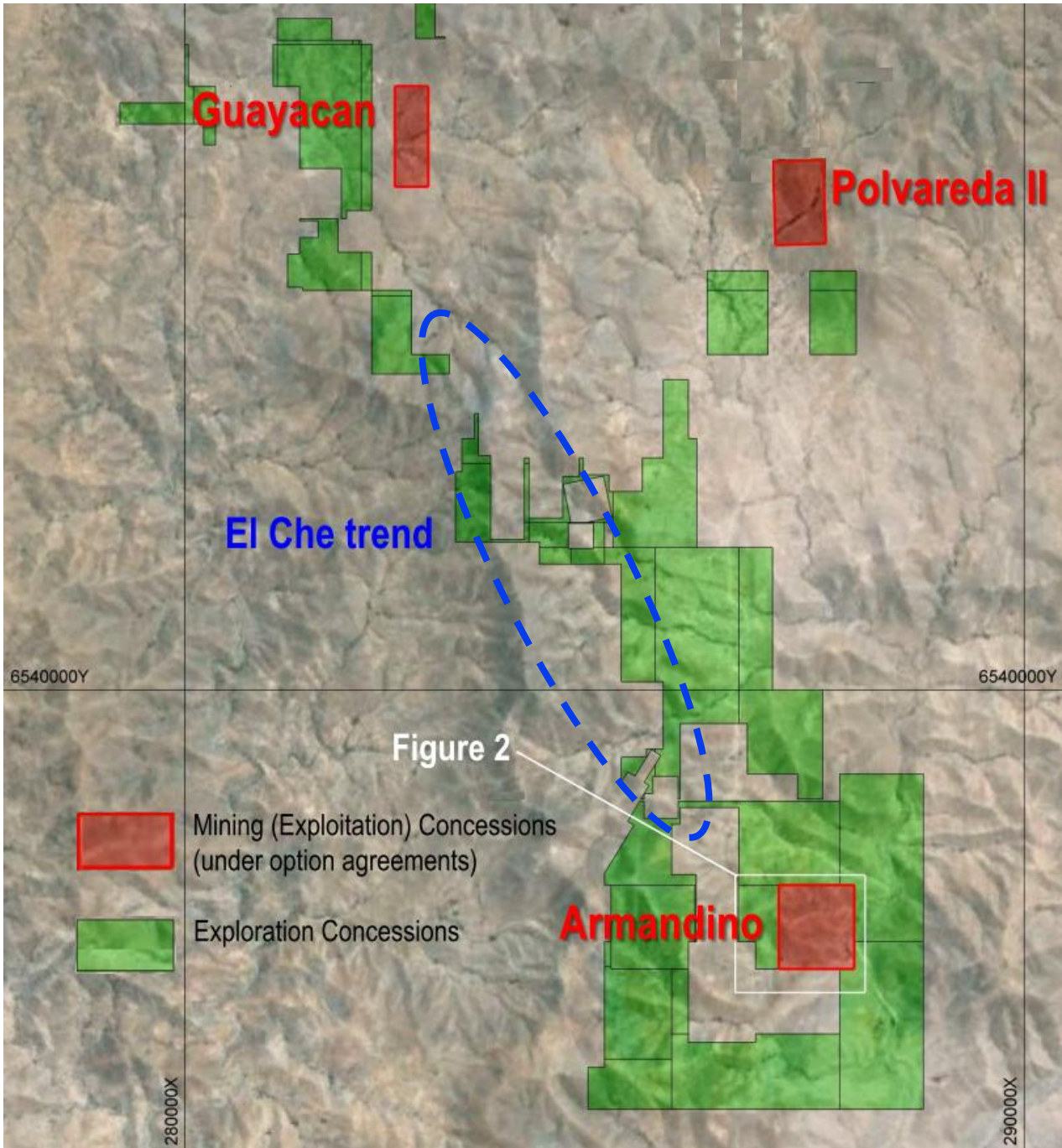
Mr Tennant noted:

**“We are looking forward to receiving these results from El Che and commencing to drill at Armandino to test beneath the strong surface indications of copper-gold mineralisation.”**

**Los Rulos JV Project Footprint Expanded**

In addition to the Los Rulos exploitation (mining) concession areas at Guayacan, Polvareda 2 and Armandino, which total 182 hectares, the Los Rulos Project now holds approximately 2,200 hectares of exploration concessions (Figure 1 below). This exploration area was obtained at no cost to the JV under the Chilean concession application process.

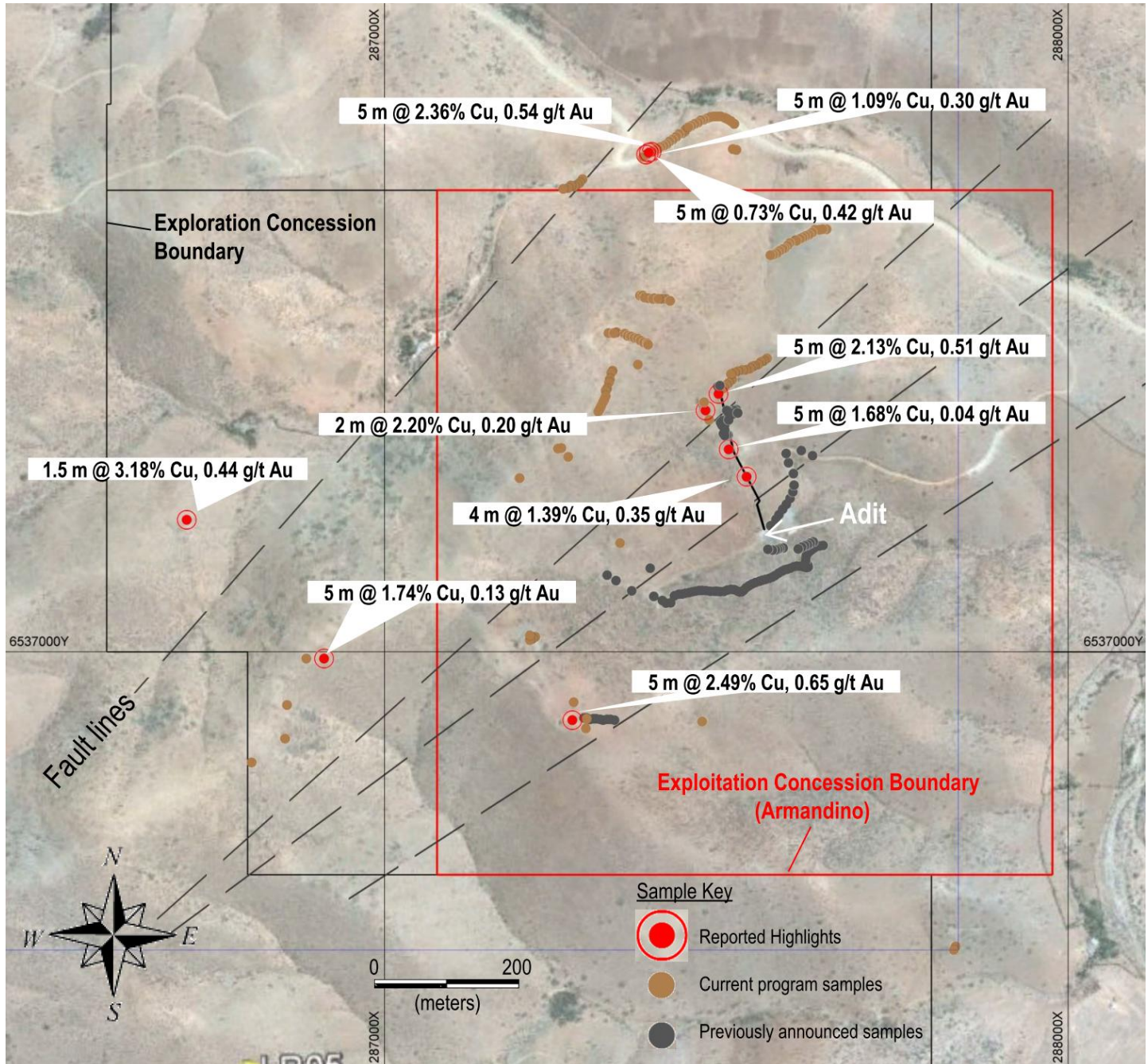
**Figure 1: Location Map – Los Rulos Project area; including additional exploration concessions and El Che trend**



## Armandino

The Armandino Prospect is located at an elevation of around 1,000m, some 26km south-west of the established regional mining town of Combarbala and approximately 20km NNW of the Company's existing Llahuin JV Copper-Gold Project. The locations and grades of the most significant surface samples within the Armandino Prospect area are detailed in Figure 2 below:

Figure 2: Location of recent surface sampling for the Armandino Prospect with highlights noted (Refer to Appendix 2 for full assay results)

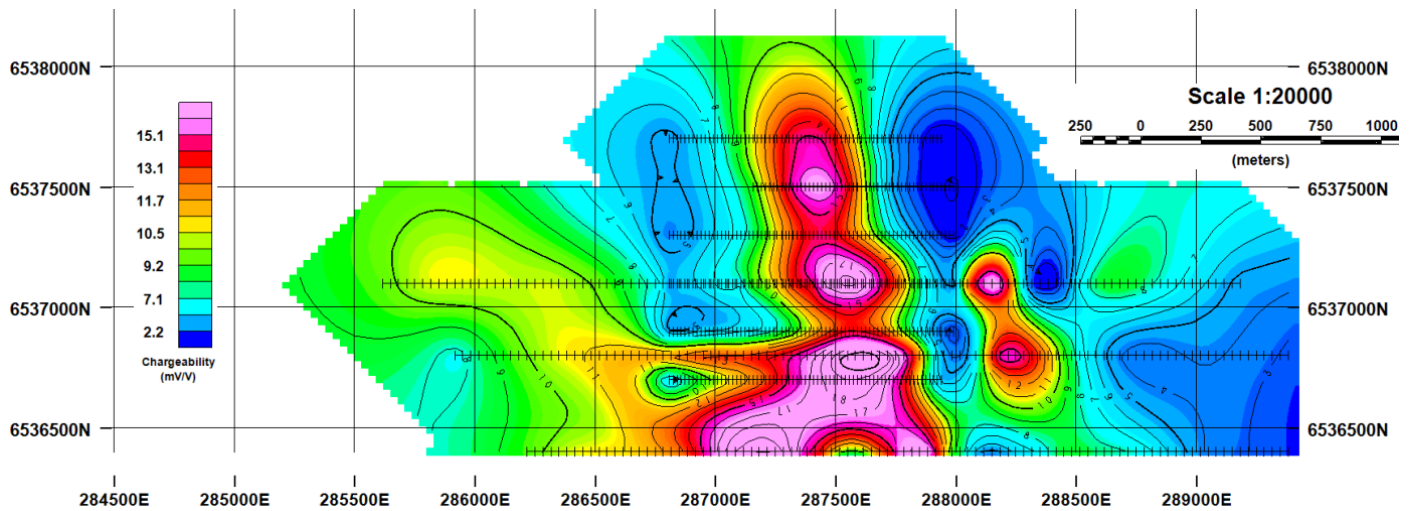


The Armandino exploitation concessions cover an area of 90 hectares. The geology is very favourable with large alteration systems and widespread mineralisation, including high-grade copper/gold skarns that have been exploited by small scale artisanal mining.



Mineralisation appears best developed in the hornfelsed sedimentary unit and associated with intense hydrothermal alteration.

**Figure 3: Induced Polarisation Survey– Armandino Prospect chargeability at 500m elevation**



Eight IP survey lines have been completed (Figure 3 above) which showed a strong geophysical response that will further assist in drill targeting. The IP chargeability high is centred at an adit (identified on Figure 2) at the base of a hill and extends over a potential strike length of at least 1,200m with widths up to 500m

### Competent/Qualified Person Statement

The information in this report that relates to copper and gold Exploration Results for the Armandino Prospect is based on information compiled by Mr Trevor Tennant, who is a Fellow 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 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” and a Qualified Person under NI43-101 Standards of Disclosure. Mr Tennant is a full time employee and Managing Director of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. For further information, please refer to the Technical Reports and News Releases on the Company’s website at [www.shmining.com.au](http://www.shmining.com.au).

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## Appendix 1 - JORC Compliance Table 1

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Explanation
<i>Sampling techniques</i>	Chip sampling and channel sampling of rock outcrops and workings. Sample sizes approximately 10-15 Kg.
<i>Drilling techniques</i>	n/a
<i>Drill sample recovery</i>	n/a
<i>Logging</i>	Macroscopic description
<i>Sub-sampling techniques and sample preparation</i>	Whole samples transported to Andes Analytical Assay Ltda (Chile) for crushing and splitting.
<i>Quality of assay data and laboratory tests</i>	Au fire assay, Cu atomic adsorption, ICP 39 elements undertaken by Andes Analytical Assay Ltda (Chile) an ISO 9001:2008 certified laboratory.
<i>Verification of sampling and assaying</i>	Results reviewed by senior geologist.
<i>Location of data points</i>	Sample points were located using GPS methods and the PASAD 56 datum.
<i>Data spacing and distribution</i>	Data was obtained from available lineages of mineralisation.
<i>Orientation of data in relation to geological structure</i>	No sampling bias is believed to have been introduced.
<i>Sample security</i>	No extraordinary measures were taken to secure samples.
<i>Audits or reviews</i>	None to date.

### Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section)

Criteria	Explanation
<i>Mineral tenement and land tenure status</i>	The Armandino exploitation concessions are subject to an option agreement between the vendor Mr. Mario Tapia; and the 50/50 Southern Hemisphere/Lundin Mining joint venture company ("Minera Los Rulos").
<i>Exploration done by other parties</i>	The area has been and continues to be the subject of small scale mining. However, no previous exploration data is available.
<i>Geology</i>	The mineralisation is copper and gold disseminated in metamorphosed sedimentary rocks, largely comprising limestone and skarns.
<i>Drill hole Information</i>	N/A
<i>Data aggregation methods</i>	Where data has been aggregated adjacent sample grades have been simply averaged over the length of the aggregated samples.
<i>Relationship between mineralisation widths and intercept lengths</i>	N/A
<i>Diagrams</i>	Refer to Figure 2 of the announcement.
<i>Balanced reporting</i>	N/A
<i>Other substantive exploration data</i>	N/A
<i>Further work</i>	Drilling program is planned.



**Appendix 2 - Armandino Prospect Sampling Results**

	<b>Sample ID</b>	<b>Sample Type</b>	<b>X</b>	<b>Y</b>	<b>Sampled feature</b>	<b>Cu T (%)</b>	<b>Au (g/t)</b>
1	70375	5 m Wall chip channel	287345	6537159	Ground minework	0.78	0.11
2	70374	3.5 m Wall chip channel	287468	6537365	Road cut	0.91	0.12
3	70373	2 m Wall chip channel	287470	6537353	Road cut	2.20	0.20
4	70372	5 m Wall chip channel	287475	6537339	Road cut	0.85	0.16
5	70371	5 m Wall chip channel	287504	6537296	Road cut	1.68	0.04
6	70370	4 m Wall chip channel	287530	6537256	Outcrop	1.39	0.35
7	70369	5 m Wall chip channel	287269	6537285	Outcrop	0.57	0.13
8	70368	4 m Wall chip channel	287259	6537298	Outcrop	0.20	0.01
9	70367	1 m Wall chip channel	287254	6537297	Outcrop	0.22	0.09
10	70366	5 m Wall chip channel	287198	6537254	Outcrop	0.42	0.13
11	70365	5 m Wall chip channel	287221	6537022	Ground minework	0.03	0.01
12	70364	5 m Wall chip channel	287217	6537019	Ground minework	0.02	0.01
13	70363	5 m Wall chip channel	287213	6537017	Ground minework	0.20	0.05
14	70362	5 m Wall chip channel	287213	6537024	Ground minework	0.46	0.11
15	70361	3.5 m Wall chip channel	287465	6536898	Outcrop	0.52	0.30
16	70360	5 m Wall chip channel	287295	6536888	Ground minework	0.74	0.05
17	70359	5 m Wall chip channel	287275	6536900	Ground minework	2.49	0.65
18	70358	5 m Wall chip channel	287296	6536902	Outcrop	0.06	0.01
19	70357	5 m Wall chip channel	287277	6536926	Outcrop	0.62	0.03
20	70356	5 m Wall chip channel	286912	6536990	Outcrop	1.74	0.13
21	70355	5 m Wall chip channel	286886	6536990	Outcrop	0.61	0.11
22	70354	5 m Wall chip channel	286855	6536873	Outcrop	0.44	0.26
23	70330	5 m Wall chip channel	286858	6536922	Road cut	0.14	0.02
24	70329	1.5 m Wall chip channel	286711	6537193	Outcrop	3.18	0.44
25	70327	2 m Wall chip channel	286806	6536838	Outcrop	0.05	0.04
26	70317	5 m Wall chip channel	287290	6537690	Road cut	0.01	0.01
27	70316	5 m Wall chip channel	287286	6537685	Road cut	0.00	0.01
28	70315	5 m Wall chip channel	287282	6537682	Road cut	0.01	0.01
29	70314	5 m Wall chip channel	287278	6537680	Road cut	0.01	0.01
30	70313	5 m Wall chip channel	287273	6537681	Road cut	0.01	0.01
31	70312	5 m Wall chip channel	287269	6537677	Road cut	0.01	0.01
32	70311	5 m Wall chip channel	287262	6537676	Road cut	0.03	0.02
33	70274	5 m Wall chip channel	287418	6537513	Road cut	0.01	0.02
34	70273	5 m Wall chip channel	287412	6537516	Road cut	0.01	0.03
35	70272	5 m Wall chip channel	287406	6537516	Road cut	0.01	0.02
36	70271	5 m Wall chip channel	287401	6537516	Road cut	0.01	0.02
37	70270	5 m Wall chip channel	287395	6537517	Road cut	0.02	0.02
38	70269	5 m Wall chip channel	287393	6537516	Road cut	0.01	0.02
39	70268	5 m Wall chip channel	287387	6537517	Road cut	0.01	0.02
40	70267	5 m Wall chip channel	287381	6537518	Road cut	0.03	0.02
41	70266	5 m Wall chip channel	287378	6537521	Road cut	0.04	0.03
42	70265	5 m Wall chip channel	287374	6537521	Road cut	0.02	0.03
43	70264	5 m Wall chip channel	287379	6537723	Ground minework	0.08	0.05



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44	70263	5 m Wall chip channel	287383	6537726	Ground minework	2.36	0.54
45	70262	5 m Wall chip channel	287387	6537729	Ground minework	0.73	0.42
46	70261	5 m Wall chip channel	287391	6537730	Ground minework	1.09	0.30
47	70260	5 m Wall chip channel	287395	6537732	Ground minework	0.58	0.18
48	70259	5 m Wall chip channel	287400	6537734	Ground minework	0.10	0.03
49	70258	5 m Wall chip channel	287404	6537737	Ground minework	0.32	0.14
50	70257	5 m Wall chip channel	287409	6537739	Ground minework	0.04	0.03
51	70256	5 m Wall chip channel	287413	6537741	Ground minework	0.01	0.01
52	70255	5 m Wall chip channel	287417	6537745	Ground minework	0.01	0.01
53	70254	5 m Wall chip channel	287422	6537748	Ground minework	0.02	0.01
54	70253	5 m Wall chip channel	287427	6537752	Ground minework	0.02	0.01
55	70252	5 m Wall chip channel	287431	6537756	Ground minework	0.02	0.01
56	70251	5 m Wall chip channel	287436	6537757	Ground minework	0.02	0.01
57	70250	5 m Wall chip channel	287509	6537398	Ground minework	0.06	0.03
58	70249	5 m Wall chip channel	287504	6537393	Ground minework	0.02	0.01
59	70248	5 m Wall chip channel	287500	6537390	Ground minework	0.03	0.02
60	70247	5 m Wall chip channel	287496	6537385	Ground minework	0.07	0.02
61	70246	5 m Wall chip channel	287489	6537377	Ground minework	2.13	0.51
62	70245	5 m Wall chip channel	287371	6537420	Ground minework	0.03	0.01
63	70244	5 m Wall chip channel	287386	6537449	Ground minework	0.04	0.02
64	70243	5 m Wall chip channel	287385	6537451	Ground minework	0.03	0.02
65	70242	5 m Wall chip channel	287380	6537452	Ground minework	0.06	0.03
66	70241	5 m Wall chip channel	287375	6537455	Ground minework	0.39	0.11
67	70240	5 m Wall chip channel	287371	6537458	Ground minework	0.08	0.04
68	70239	5 m Wall chip channel	287366	6537459	Ground minework	0.26	0.13
69	70238	5 m Wall chip channel	287361	6537461	Ground minework	0.03	0.02
70	70237	5 m Wall chip channel	287356	6537462	Ground minework	0.03	0.02
71	70236	5 m Wall chip channel	287352	6537465	Ground minework	0.04	0.02
72	70235	5 m Wall chip channel	287340	6537467	Ground minework	0.01	0.01
73	70234	5 m Wall chip channel	287336	6537466	Ground minework	0.03	0.01
74	70233	5 m Wall chip channel	287328	6537466	Ground minework	0.04	0.02
75	70232	5 m Wall chip channel	287334	6537411	Ground minework	0.01	0.01
76	70231	5 m Wall chip channel	287332	6537408	Ground minework	0.00	0.01
77	70230	5 m Wall chip channel	287330	6537399	Ground minework	0.01	0.01
78	70229	5 m Wall chip channel	287329	6537394	Ground minework	0.01	0.01
79	70228	5 m Wall chip channel	287326	6537385	Ground minework	0.02	0.01
80	70227	5 m Wall chip channel	287324	6537382	Ground minework	0.03	0.02
81	70226	5 m Wall chip channel	287324	6537374	Ground minework	0.04	0.02
82	70225	5 m Wall chip channel	287322	6537369	Ground minework	0.02	0.02
83	70224	5 m Wall chip channel	287320	6537365	Ground minework	0.02	0.02
84	70223	5 m Wall chip channel	287317	6537359	Ground minework	0.01	0.02
85	70222	5 m Wall chip channel	287315	6537355	Ground minework	0.03	0.02
86	70221	5 m Wall chip channel	287313	6537351	Ground minework	0.06	0.04



**Appendix 2 - Armandino Prospect Sampling Results**

	Sample ID	Sample Type	X	Y	Sampled feature	Cu T (%)	Au (g/t)
87	70199	5 m Wall chip channel	287441	6537763	Ground minework	0.01	0.01
88	70198	5 m Wall chip channel	287445	6537766	Ground minework	0.02	0.01
89	70197	5 m Wall chip channel	287449	6537768	Ground minework	0.07	0.04
90	70196	5 m Wall chip channel	287454	6537771	Ground minework	0.12	0.04
91	70195	5 m Wall chip channel	287459	6537773	Ground minework	0.02	0.01
92	70194	5 m Wall chip channel	287463	6537776	Ground minework	0.02	0.01
93	70193	5 m Wall chip channel	287467	6537777	Ground minework	0.01	0.01
94	70192	5 m Wall chip channel	287472	6537779	Ground minework	0.01	0.01
95	70191	5 m Wall chip channel	287477	6537781	Ground minework	0.02	0.02
96	70190	5 m Wall chip channel	287482	6537782	Ground minework	0.01	0.02
97	70189	5 m Wall chip channel	287487	6537782	Ground minework	0.00	0.01
98	70188	5 m Wall chip channel	287492	6537782	Ground minework	0.01	0.02
99	70187	5 m Wall chip channel	287498	6537780	Ground minework	0.01	0.02
100	70186	5 m Wall chip channel	287502	6537778	Ground minework	0.02	0.01
101	70185	5 m Wall chip channel	287507	6537775	Ground minework	0.02	0.01
102	70184	5 m Wall chip channel	287512	6537771	Ground minework	0.02	0.02
103	70183	5 m Wall chip channel	287515	6537733	Ground minework	0.03	0.01
104	70182	5 m Wall chip channel	287510	6537734	Ground minework	0.01	0.02
105	70181	5 m Wall chip channel	287565	6537579	Ground minework	0.90	0.03
106	70180	5 m Wall chip channel	287569	6537580	Ground minework	0.02	0.02
107	70179	5 m Wall chip channel	287574	6537582	Ground minework	0.05	0.03
108	70178	5 m Wall chip channel	287578	6537585	Ground minework	0.02	0.01
109	70177	5 m Wall chip channel	287583	6537588	Ground minework	0.01	0.01
110	70176	5 m Wall chip channel	287586	6537589	Ground minework	0.02	0.02
111	70175	5 m Wall chip channel	287590	6537593	Ground minework	0.00	0.02
112	70174	5 m Wall chip channel	287593	6537597	Ground minework	0.00	0.02
113	70173	5 m Wall chip channel	287601	6537601	Ground minework	0.01	0.01
114	70172	5 m Wall chip channel	287603	6537600	Ground minework	0.01	0.02
115	70171	5 m Wall chip channel	287608	6537603	Ground minework	0.00	0.01
116	70170	5 m Wall chip channel	287612	6537605	Ground minework	0.01	0.01
117	70169	5 m Wall chip channel	287616	6537607	Ground minework	0.00	0.01
118	70168	5 m Wall chip channel	287621	6537609	Ground minework	0.00	0.01
119	70167	5 m Wall chip channel	287626	6537612	Ground minework	0.00	0.01
120	70166	5 m Wall chip channel	287630	6537616	Ground minework	0.00	0.01
121	70165	5 m Wall chip channel	287636	6537616	Ground minework	0.01	0.01
122	70164	5 m Wall chip channel	287641	6537617	Ground minework	0.01	0.01
123	70163	5 m Wall chip channel	287647	6537617	Ground minework	0.01	0.01
124	70162	5 m Wall chip channel	287560	6537429	Ground minework	0.04	0.01
125	70161	5 m Wall chip channel	287555	6537425	Ground minework	0.04	0.01
126	70160	5 m Wall chip channel	287551	6537424	Ground minework	0.06	0.01
127	70159	5 m Wall chip channel	287547	6537420	Ground minework	0.03	0.01
128	70158	5 m Wall chip channel	287541	6537418	Ground minework	0.04	0.01
129	70157	5 m Wall chip channel	287538	6537417	Ground minework	0.03	0.01





## Appendix 2 - Armandino Prospect Sampling Results

	Sample ID	Sample Type	X	Y	Sampled feature	Cu T (%)	Au (g/t)
130	70156	5 m Wall chip channel	287535	6537414	Ground minework	0.05	0.01
131	70155	5 m Wall chip channel	287529	6537412	Ground minework	0.02	0.01
132	70154	5 m Wall chip channel	287524	6537412	Ground minework	0.02	0.01
133	70153	5 m Wall chip channel	287517	6537410	Ground minework	0.02	0.02
134	70152	5 m Wall chip channel	287512	6537408	Ground minework	0.13	0.04
135	70151	5 m Wall chip channel	287507	6537406	Ground minework	0.05	0.03
136	63899	5 m Wall chip channel	287836	6536569	Ground minework	0.81	0.04
137	63898	5 m Wall chip channel	287833	6536564	Ground minework	0.28	0.23

