



# ASX ANNOUNCEMENT

ASX : CXO

10<sup>th</sup> September 2013

## Highest ever silver grades at Blueys Prospect, NT

### HIGHLIGHTS

- **New surface rock chips at Blueys assay up to:**
  - **4.1 kilograms per tonne silver (4,065 g/t)**
  - **5.5% copper**
  - **25% lead**
- **Widespread silver in rock chips at large Inkheart Prospect**
- **Awaiting infill soil results from Inkheart and Blueys**
- **Results are indication of significant mineralisation at depth**

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The highest ever silver grades have been returned by Core Exploration Ltd's (ASX: CXO) latest rock chips sampling program at Blueys and nearby Inkheart Prospect within the Company's Alberta Project in the Northern Territory.

Surface rock chip samples from Blueys graded up to 4,065 g/t silver (Ag), 5.5% copper (Cu) and 25% Lead (Pb) (Table 1).

Recent mapping and rock chip sampling at Blueys has identified a broad zone of pervasive stock-work veining associated with malachite and azurite (copper) and galena (lead/silver) minerals at surface (Figures 1 & 2). Surface mineralisation and widespread veining coincides with a sizeable soil anomaly (500m x 250m) greater than 1,000ppb Ag, including a peak silver in soil value of 25,250ppb Ag at Blueys (Figure 3).

In addition, Core's first rock chip sampling results at the Inkheart Prospect north of Blueys have confirmed anomalous silver levels at surface. Core's geological mapping has identified a metal rich gossan coinciding with the newly-identified 1,500m by 250m area of high (greater than 1,000ppb) silver in soil anomaly (with a peak of 19,552ppb Ag) (Figure 3).

Core believes that these high silver in soil and rock chip results are an indicator of significant mineralisation at depth. Results from Blueys and Inkheart Prospects continue to elevate the prospectivity to a level comparable to early stage exploration in areas such as Investigator Resources Ltd's (ASX:IVR) flagship Paris Project in S.A., where continued high grade silver is intersected at depth.



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Figure 1 Rock chip samples containing malachite/azurite (copper) mineralisation Blueys Prospect, NT



Figure 2 Rock chip samples containing galena (silver and lead) mineralisation Blueys Prospect, NT.



## Geology

Core's mapping has identified that the reactive carbonate rocks (Neoproterozoic Bitter Springs Formation), common at the Blueys Prospect, contain visual copper carbonate minerals (malachite and azurite), lead and silver minerals (argentiferous galena). The new high silver samples were sampled from stockpiled mineralised material to determine if the high silver grades were associated with lead bearing sulphides (argentiferous galena).

The company considers the reactive carbonate characteristics of the Bitter Springs Formation to be an ideal host unit for mineralisation. At the Blueys Prospect the silver soil anomalies match the location of the Bitter Springs Formation wrapping around basement granites and amphibolites (Figure 3).

The Blueys and Inkheart Prospects occur at equivalent geological settings, within the Neoproterozoic Bitter Springs Formation at the contact with Proterozoic basement. The Inkheart Prospect has a dominant north-east orientation consistent with the regional structural trend.

## Next Steps

Results from infill soils surveys conducted at Blueys and Inkheart are expected to be received in mid-September.

Induced Polarisation (IP) geophysical surveys are planned to commence next month over the geological and geochemical targets defined at Blueys and Inkheart and prioritised for drilling.

Further geological mapping and sampling will continue at Blueys and Inkheart, in addition to other prospects within Core's package of tenements in the Albarta Project.

## Albarta Project Background

The Blueys and Inkheart Prospects are within Core's Albarta Project that covers over 2,000km<sup>2</sup> of the newly recognised, highly prospective IOCG Aileron Province, 100km NE of Alice Springs in the NT. Core's tenements include a number of significant copper (+ silver) occurrences (Figure 4).

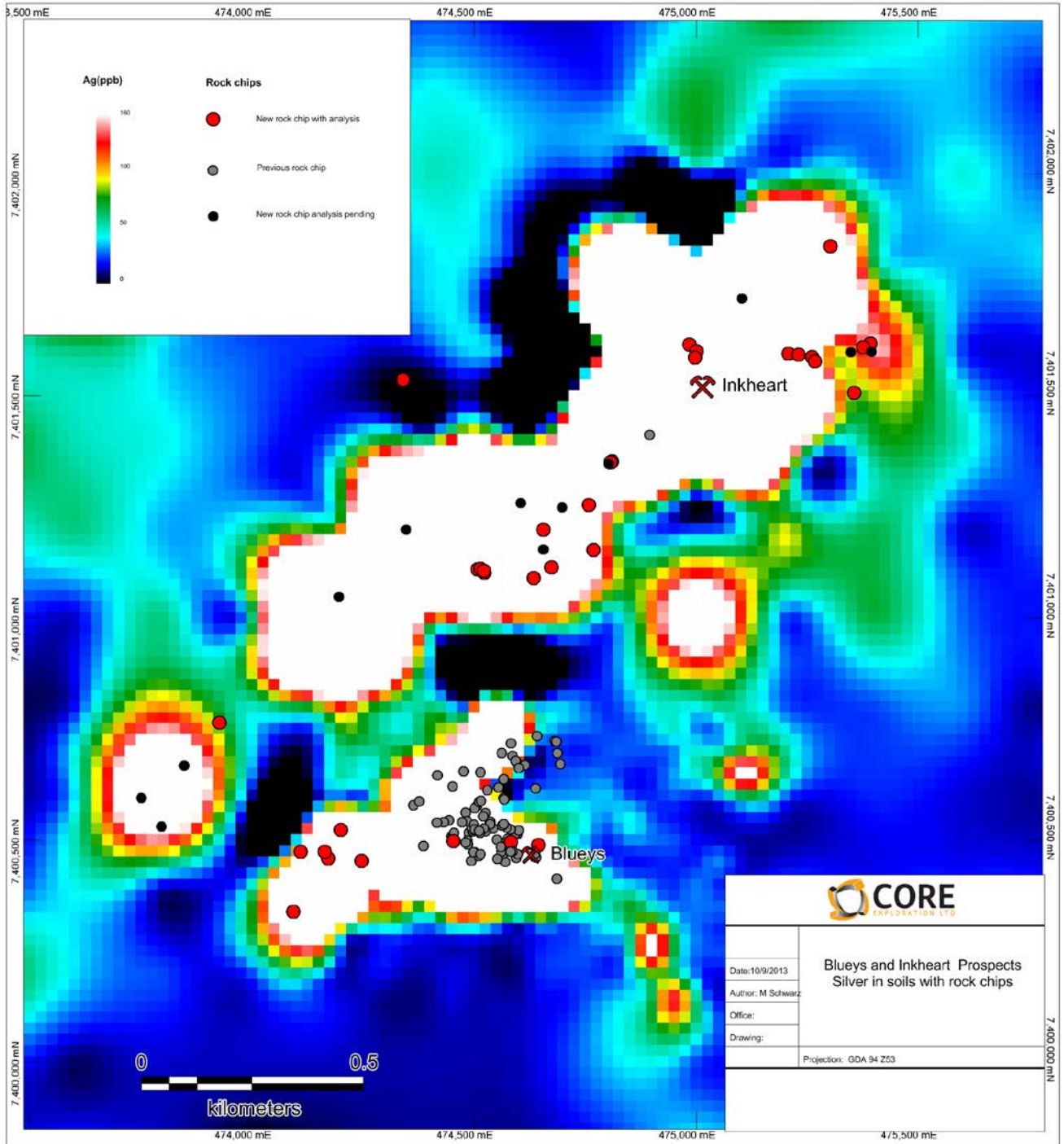
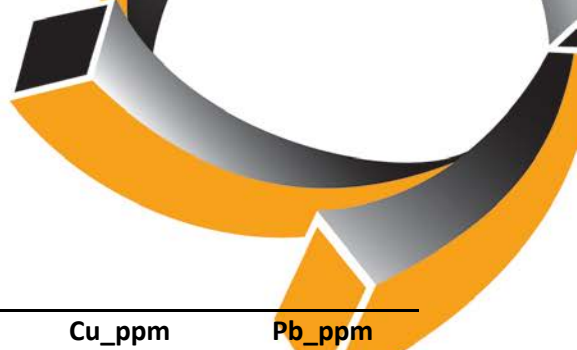


Figure 3. New and previous rock-chip sample locations overlain on silver in soil image, Blueys and Inkheart Prospect, Alberta Project NT.

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SampleID	Easting	Northing	Ag g/t	Cu_ppm	Pb_ppm
BLU011	474583	7400497	4.01 kg/t	5.48%	1,082
BLU012	474645	7400491	1.15 kg/t	5,473	24.9%
BLU013	474645	7400491	1.26kg/t	2,531	23.4%
1101	474811	7401354	29.52	1,732	4,107
1102	474807	7401352	28.73	306	3,070
1103	474985	7401617	7.99	473	608
1104	475001	7401602	3.12	24	235
1105	474998	7401588	47.33	111	166
1106	475208	7401597	2.99	32	1,077
1107	475208	7401597	1.95	55	670
1108	475231	7401595	3.3	186	109
1109	475261	7401589	1.35	63	134
1110	475268	7401579	0.64	85	19
1111	475303	7401838	0.14	10	55
1112	475393	7401620	0.57	22	53
1113	475377	7401611	6.12	34	112
1114	474340	7401538	0.65	7	28
1115	475356	7401508	0.46	5	70
1116	474758	7401256	4.4	76	263
1117	474656	7401200	2.37	348	1,176
1118	474508	7401111	1.02	236	75
1119	474514	7401112	0.74	140	93
1120	474523	7401104	1.47	255	32
1121	474522	7401108	0.75	127	39
1122	474634	7401092	1.91	648	17
1123	474674	7401116	1.18	152	11
1124	474769	7401155	0.79	24	143
1125	474247	7400455	7.83	103	1,792
1126	474200	7400524	3.64	224	175
1127	474171	7400460	2.45	25	49
1128	473343	7401980	0.13	20	90
1129	473342	7402064	0	9	201
1130	473600	7401937	0	32	154
1131	473927	7400766	0.07	110	162
1132	474164	7400475	8.68	147	126
1133	474109	7400476	43.16	460	27
1134	474093	7400341	1.61	5	16
1135	474453	7400499	12.85	693	53

Table 1. All recently collected surface rock chip results from Blueys and Inkheart Prospects, Albarta Project, NT.

Ag: 4A/MS 4 Acid Digest Mass Spectrometry; Cu: 4A/OE 4 Acid Digest Inductively Coupled Plasma Optical Emission Spectrometry. The presence of this mapped surface mineralisation and alteration may or may not extend at depth and this can only be confirmed by drilling

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*The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Stephen Biggins (BSc(Hons)Geol, MBA) as Managing Director of Core Exploration Ltd who is a member of the Australasian Institute of Mining and Metallurgy and is bound by and follows the Institute's codes and recommended practices. He has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Biggins consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

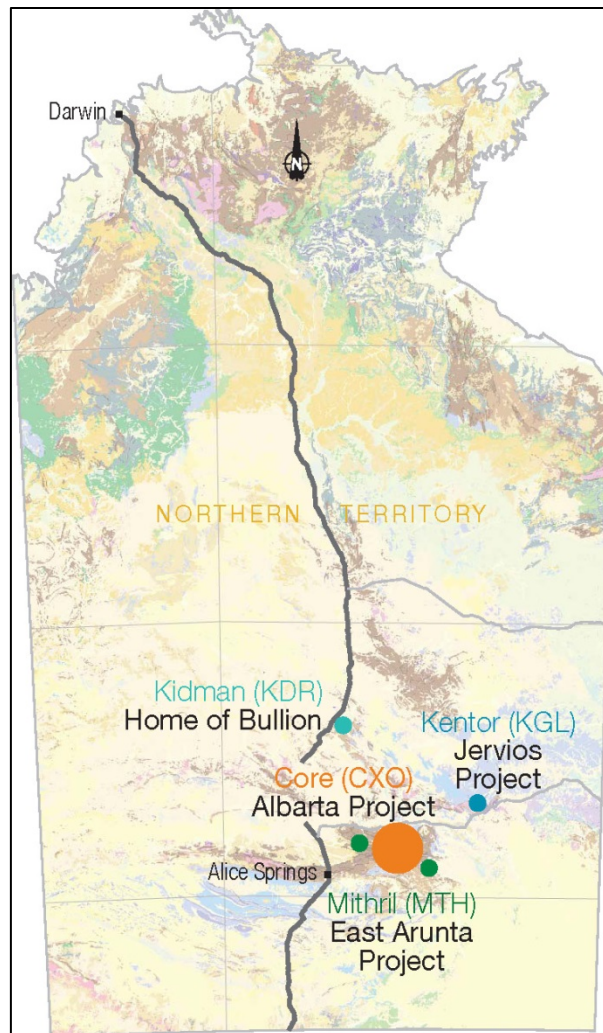


Figure 4. Core Exploration's Albarta Project and other copper exploration projects in the Northern Territory.

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