

Positive Preliminary Economic Assessment for Murray Brook Zn-Cu-Pb-Ag Deposit, Bathurst Mining Camp, New Brunswick

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Overview

- Pre-production capital requirements \$261 million
- Mill throughput of 2 million tonnes of ore per annum- 6,000 tonnes per day
- Life of Mine 9.5 years
- Life of Mine Production: 239,000 tonnes of copper concentrate, 122,000 tonnes of lead concentrate and 770,000 tonnes of zinc concentrate
- Total Net Smelter Return Revenue \$1,246 million
- Further metallurgical studies planned
- Excellent exploration upside with additional drilling plans on adjacent Camel Back Claims

VANCOUVER, June 5, 2013 /CNW/ - [El Niño Ventures Inc.](#) ("ELN" and the "Company") (TSX.V: ELN; OTCQX: ELNOF Frankfurt: E7Q) is pleased to announce the results of an NI 43-101 Preliminary Economic Assessment ("PEA") for the Murray Brook polymetallic massive sulfide deposit, New Brunswick (the "Project"). The results of the PEA demonstrate the potential technical and economic viability of establishing a new mine and mill complex on the Murray Brook property. The projected cash flows indicate an after-tax NPV at a 5% discount rate of \$96.4 million, an IRR of 11.4%, and a payback period of 5.4 years (see table 1). An NI 43-101 Technical Report will be filed on SEDAR within 45 days of the date of this press release.

Harry Barr, ELN's Chairman & CEO commented, "The results of the PEA clearly indicate that there is an indicative basis for a mining project at Murray Brook. There is excellent potential to further enhance the projected economics of the project, through continued refinements in metal recoveries as well as the potential to augment existing resources by achieving an exploration success on the adjacent Camel Back claims. With forecasts of increased metal demand and dwindling supply, the positive PEA results for the Murray Brook project provide ELN shareholders with the potential to benefit from the predicted upward trend in zinc prices over the next few years".

Unless otherwise noted, all amounts in this press release are expressed in Canadian currency. The PEA is prepared for 100% ownership of the project revenues and expenditures. As noted below, ELN holds a 35% interest in the project. The PEA includes Inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Table 1- Summary of 2013 Murray Brook PEA Results

NPV (5%)	\$96.4	Million
NPV (7%)	\$59.7	Million
IRR	11.4%	
Payback	5.4	Years
Total LOM* Capital	\$334.8	Million

*Life of Mine

The PEA was prepared by P&E Mining Consultants Inc. and the full results of the study will be disclosed in a NI 43-101 Technical Report within 45 days of the date of this press release. The PEA was prepared under the supervision of Eugene Puritch, P. Eng. of P&E Mining Consultants Inc. Mr. Puritch is an independent QP in accordance with NI 43-101 and has reviewed and approved the technical information in this release.

The main conclusions from the PEA follow below.

Mining and Mineral Processing

Life of Mine production on a diluted and extracted basis for the Murray Brook potentially economic portion of

the resource estimate is planned to be as follows:

Table 2 - Murray Brook Potentially Economic Portion of the Resource Estimate

Classification	Tonnes	Zn%	Cu%	Pb%	Ag g/t
Measured	12,075,000	2.75	0.37	0.96	38.8
Indicated	6,635,000	1.98	0.50	0.78	36.1
Meas. & Ind.	18,710,000	2.48	0.42	0.90	37.9
Inferred	240,000	1.18	1.46	0.41	24.7

(1) Potentially economic portion of the mineral resource estimate which are not mineral reserves do not have demonstrated economic viability. This estimate of mineral resources may be materially affected by environmental, permitting, legal, title, taxation, sociopolitical, marketing, or other relevant issues.

(2) The quantity and grade of reported potentially economic Inferred resources in this estimation are uncertain in nature and there has been insufficient exploration to define them as an Indicated or Measured potentially mineable mineral resource and it is uncertain if further exploration will result in upgrading them to an Indicated or Measured potentially economic mineral resource category.

(3) The potentially economic portion of the mineral resource in this press release was estimated using the Canadian Institute of Mining, Metallurgy and Petroleum (CIM), CIM Standards on Mineral Resources and Reserves, Definitions and Guidelines prepared by the CIM Standing Committee on Reserve Definitions and adopted by CIM Council.

The PEA assumes the start of the open pit mining operations at an average annual process plant production rate of 2,000,000 tonnes per annum over a mine life of approximately 9.5 years. The envisaged mining operation is a conventional open pit. Mining operations will reach a sustained total annual material movement of 11.6 million tonnes using 11.5 m3 diesel hydraulic excavators, 90 tonne haulage trucks, and track mounted diesel powered drill rigs with up to 100 mm diameter blastholes drilled on 6 metre high benches.

The mined material will be processed at a new 6,000 tonnes per day flotation plant located on the Project site. Three concentrates will be produced: 1) copper-silver; 2) lead-silver; and 3) zinc-silver. It is anticipated that the concentrates could be processed at the nearby Belledune Smelter or other suitable facilities.

Site Infrastructure

The Project will benefit from infrastructure, services and skilled labour available in the Bathurst Mining Camp. The Murray Brook Project site is located 60 km west of the city of Bathurst and is accessible year-round from paved Provincial Highway 180 and a 6.5 km gravel access road. Project site infrastructure is anticipated to include:

- Plant site and haul roads;
- Administration buildings and assay lab;
- Mine maintenance garage, warehouse and fuel storage facilities;
- Fresh water supply and sewage treatment; and
- Lined tailings storage area

The proposed Murray Brook Project mill and mine site is ideally located on the access road to the open pit area. The proposed processing plant site is located on a ridge overlooking a valley about 100 metres below. Several lateral ridges form natural containment dykes for at least two sides of a tailings management facility. Power to the site will be supplied by a 12 km long transmission line connecting to the Caribou Mine site and provincial grid.

The labour force for the construction and operation of this project is anticipated to be drawn from the Bathurst area. The labour pool in this area is highly skilled and experienced in construction projects and mining operations.

Financial Assumptions and Results

Total operating costs during the Life of Mine is illustrated in Table 3:

Table 3-Projection of total operating costs during the Life of Mine, Murray Brook Project

Mining Cost	\$/t material	\$2.30
Processing Cost	\$/t ore	\$14.25
G&A	M\$/year	\$2.50

Capital costs are categorized as Initial Project Capital and Sustaining Capital. Initial Project Capital consists primarily of mining equipment, process plant and ancillary plant construction, initial tailing storage, facility construction, an allowance for water treatment, and local infrastructure. Sustaining capital consists of further additions to mining equipment during production and environmental and closure costs.

Table 4-Initial Project and Sustaining Capital of Murray Brook Project

	Total (\$'000)
Initial Project Capital	
Mine Pre-Stripping	\$8,707
Mining Capital Cost	\$33,706
Process Plant	\$104,184
Infrastructure	\$35,000
Indirects	\$44,000
Contingency	\$35,257
Total Initial Project Capital	\$260,854
Sustaining Capital	
Mine	\$10,137
Process Plant	\$2,100
Environmental & Reclamation	\$60,800
Contingency (sustaining)	\$927
Total Sustaining Capex	\$73,964
Total Capital	\$334,818

Metal prices used in the PEA are based on the April 30, 2013 three year trailing prices which are listed in Table 5 below.

Table 5- Metal prices used in this study

Metal	Prices (US\$)	Unit
Copper	3.70	lb
Lead	1.00	lb
Zinc	0.94	lb
Gold	1,540	oz
Silver	30.09	oz

Exchange Rate: \$US:\$CAD = 1

Project and Exploration Upside

Further technical studies on the Murray Brook Project will focus on additional metallurgical studies designed to evaluate potential techniques of improving metal recoveries. The first step is a small pilot plant project proposal to test three to five tonnes of drill core material.

The largest impact on the potential value of the Murray Brook Project is likely to be achieved by increasing the mineral resource base available for mining, thereby increasing the mine life and (or) annual mill throughput. Excellent potential exists for additional discoveries along and adjacent to the favourable geological horizon which extends from the former Restigouche Mine to the west of the Murray Brook deposit to Trevali's Caribou deposit 11 km to the east. An exploration success on this stretch of productive stratigraphy could significantly increase the scale of the Murray Brook Project prior to development. A 2,000 metre exploration program is proposed to drill test five priority geophysical and geochemical anomalies this summer.

Qualified Persons Statement

The PEA was prepared under the supervision of Eugene Puritch, P. Eng. of P&E Mining Consultants Inc. Mr.

Puritch is an independent QP in accordance with NI 43-101 and has reviewed and approved the technical information in this release. The information in this release was reviewed by Dr. William Stone, Executive Vice President of Exploration of ELN and a Qualified Person as defined by NI 43-101.

About El Niño Ventures Inc. Bathurst Projects

El Niño Ventures Inc. has two active projects in the Bathurst Mining Camp;

1. Murray Brook Project

Murray Brook property is located 60 km west of Bathurst and a portion of the property is underlain by the Murray Brook polymetallic massive sulfide deposit. The property is supported by excellent nearby infrastructure, including paved roads, grid electricity and communities to provide goods, services and skilled labour (Figure 1).

Figure 1- Murray Brook and Camel Back Location map in the Bathurst Mining Camp
(<http://www.elninoventures.com/s/NewsReleases.asp?ReportID=586536>)

ELN and Votorantim Metals Canada Inc. "VMC" (who is the operator of the joint venture project) currently own 70% of the project, of which 35% is held by each of the two parties. Under a purchase agreement signed by VMC on August 28, 2012 with Murray Brook Minerals and Murray Brook Resources Inc. (collectively the "Owners"), VMC acquired the right to purchase the additional 30% of the Murray Brook Project from the Owners. The purchase agreement between VMC and the Owners provides for a series of staged payments totaling \$6 million over a five year period and provides for a 0.25% NSR payable to the Owners after one year of commercial production.

VMC provided ELN the option to purchase an additional 15% in the project as required by an underlying Amending Agreement dated September 30, 2010 between Xstrata Zinc (now Glencore Xstrata PLC), VMC and ELN (see reference to the Tri-Party Agreement immediately below). ELN did not elect to exercise the option and consequently at this time the Joint Venture remains at VMC 65%: ELN 35%.

To date, more than 28,000 metres of drilling has been completed with encouraging results. In February 2012, NI 43-101 resource estimation was announced (see news release). The Technical Report is filed on SEDAR.com and also available on ELN's website. The new Preliminary Economic Assessment Report, PEA, will be filed on SEDAR within 45 days of the date of this press release.

2. Bathurst Mining Camp Project (Tri-Party Agreement):

Consists of an initial 4,712 claims in the Tri-Party Agreement with Xstrata Zinc (now Glencore Xstrata) and VM Canada, whereby VM Canada may incur exploration expenditures of \$10 million over a period of 5 years to earn a 50% interest. VM Canada may further increase its interest to 70% by spending an additional \$10 million over two years. Drilling and further exploration activities have been planned for 2013.

Votorantim Metals Canada Inc. Statement

Technical details in this news release were provided by VMC whose professional geologists conduct operations consistent with mineral industry best practices. VMC accepts no responsibility for this news release or any inferences made from the technical details provided herein.

About Votorantim Metals Canada Inc.

VMC is a subsidiary of Votorantim Metais is a company that is part of the Votorantim Group that was founded in Brazil in 1918. The Votorantim Group operates in twenty countries and has over 40,000 employees. Votorantim Metais is the largest electrolytic nickel producer in Latin America and one of the world's leaders in the production of zinc, aluminum and nickel. Votorantim Canada Metals Inc. in conjunction with Glencore Xstrata PLC and El Nino Ventures is operator of the Bathurst Option and Joint Venture which is actively exploring for base metal deposits within the Bathurst Mining Camp.

About El Nino Ventures Inc.

[El Niño Ventures Inc.](#) is an international exploration company, focused on exploring for zinc, silver, copper,

gold and lead in New Brunswick, Canada and copper in the Democratic Republic of Congo ("DRC").

On Behalf of the Board of Directors

(signed)
Harry Barr, Chairman & CEO
El Niño Ventures Inc.

Neither the 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 release.

Cautionary Note Regarding Forward Looking Statements. Note: This release contains forward-looking statements that involve risks and uncertainties. These statements may differ materially from actual future events or results and are based on current expectations or beliefs. For this purpose, statements of historical fact may be deemed to be forward-looking statements. In addition, forward-looking statements include statements in which the Company uses words such as "continue", "efforts", "expect", "believe", "anticipate", "confident", "intend", "strategy", "plan", "will", "estimate", "project", "goal", "target", "prospects", "optimistic" or similar expressions. These statements by their nature involve risks and uncertainties, and actual results may differ materially depending on a variety of important factors, including, among others, the Company's ability and continuation of efforts to timely and completely make available adequate current public information, additional or different regulatory and legal requirements and restrictions that may be imposed, and other factors as may be discussed in the documents filed by the Company on SEDAR (www.sedar.com), including the most recent reports that identify important risk factors that could cause actual results to differ from those contained in the forward-looking statements. The Company does not undertake any obligation to review or confirm analysts' expectations or estimates or to release publicly any revisions to any forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. Investors should not place undue reliance on forward-looking statements.

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