

**NEWS RELEASE**

Excelsior Releases Feasibility Study with Post-Tax NPV of \$807 Million

December 5, 2016

Excelsior Mining Corp. (TSX-V: MIN) (FSE: 3XS) (OTCQX: EXMGF) ("Excelsior" or the "Company") is pleased to announce the results of a comprehensive Feasibility Study ("FS") on the North Star Deposit of the Gunnison Copper Project, located in Cochise County, southeastern Arizona. The project is designed as a copper in-situ recovery ("ISR") mine using solvent extraction-electrowinning ("SX-EW").

Highlights of the FS (United States dollars)

- Net Present Value (“NPV”) of \$1.172 billion pre-tax and \$807 million post-tax
 - at 7.5% discount rate using a life of mine (“LOM”) copper price of \$2.75/lb;
- Internal Rate of Return (“IRR”) of 48% pre-tax and 40% post-tax;
- Initial construction capital costs of \$46.9 million
 - includes 20% contingency, 16% EPCM, freight, mobile equipment, owner’s costs and capital spares;
- Payback period for initial capital of 2.3 years pre-tax and 2.8 years post-tax;
- Average life of mine operating costs of \$0.65/lb;
- All-In Cost (LOM capital costs plus operating costs) of \$1.23/lb;
- 42 million pounds of copper added to the Probable Reserve;
- Life of Mine: 24 years of commercial production;
- Staged production profile: initial production rate of 25 million pounds of copper cathode per annum using the existing Johnson Camp Mine (“JCM”) facilities, followed by an intermediate expansion stage to 75 million pounds per annum and final expansion stage to full production of 125 million pounds per annum (includes the construction of an acid plant at full production). The staged production profile makes possible the funding of future expansions out of cash flow.

Commenting on this news, President & CEO, Stephen Twyerould said, “The release of our Feasibility Study completes the last major technical milestone prior to receipt of operating permits. We have once again delivered a very robust product with outstanding economics. Excelsior’s entire team can take pride in this outcome and our belief that the Gunnison Copper Project will be the next new copper mine in the United States.”

Sensitivity Analysis										
PRE-TAX										
	Acid Plant					Non-Acid Plant				
Cu Price	\$3.25	\$3.00	\$2.75	\$2.50	\$2.25	\$3.25	\$3.00	\$2.75	\$2.50	\$2.25
IRR	62%	55%	48%	41%	34%	63%	56%	48%	41%	33%
NPV*	\$1,588	\$1,380	\$1,172	\$963	\$755	\$1,396	\$1,187	\$978	\$768	\$559
AFTER-TAX										
	Acid Plant					Non-Acid Plant				
Cu Price	\$3.25	\$3.00	\$2.75	\$2.50	\$2.25	\$3.25	\$3.00	\$2.75	\$2.50	\$2.25
IRR	51%	45%	40%	35%	29%	51%	46%	41%	35%	28%
NPV*	\$1,086	\$947	\$807	\$664	\$522	\$972	\$831	\$691	\$548	\$405
*million \$ at 7.5% discount rate										

Twyerould added, "Because of the special characteristics of the North Star deposit, and by extension our ability to employ the in-situ mining method, the project economics remain exceptionally strong even at low copper prices. As demonstrated in the table above, the high margin enjoyed by the Gunnison Copper Project is our critical advantage and the key to our risk management."

The FS was completed by M3 Engineering & Technology Corporation ("M3") of Tucson, AZ and is effective as of December 5, 2016. The technical report (the "Report") summarizing the results of the FS, and prepared in accordance with National Instrument ("NI") 43-101, will be filed on SEDAR and Excelsior's website within 45 days of this news release. Results of the FS disclosed in this press release are in United States Dollars.

Financial Analysis

As highlighted in the tables below, the FS demonstrates excellent project economics. Based on an initial production rate of 25 million pounds per annum, the FS base case generates a post-tax NPV of \$807 million (at a cash flow discount of 7.5%), an IRR of 40.1% and a payback period for initial capital of 2.3 years. This financial analysis is based on a number of assumptions which will be fully set out in the Report.

The base case uses the following parameters over the 24-years of production:

- Copper selling price of \$2.75 per pound;
- Total copper recovery of approximately 48% (based on a combination of metallurgical recovery and estimated sweep efficiency);
- Average of approximately 9.0 pounds of acid consumed for every pound of copper produced;
- Initial acid price of \$100/ton for years 1 to 3, \$125/ ton for years 4 to 6, declining to \$46.19/ton as of year 7 (acid plant is built in year 6);
- State tax rate of 6.97% and a federal tax rate of 35%;
- Staged production commencing at 25 million pounds per annum, ramping up to 75 million pounds in year 4, and then to 125 million pounds per annum in year 7.

FINANCIAL ANALYSIS SUMMARY		
	Pre-Tax	Post-Tax
IRR	48.3%	40.1%
Initial Capital Payback (years)	2.3	2.8
NPV (million) @7.5%	1,172	807
Ratio of initial Capital of NPV _{7.5}	0.04	0.06
COST METRICS		
	Million \$	Cost/lb Copper
Direct Operating Costs	1,418	0.65
Royalties and Other Production Costs	461	0.22
Initial Capital Costs	46.9	0.02
All-in Cost (all capital + operating)	2,668	1.23
Taxes	995	0.46

Total initial capital expenditures (including 20% contingency, 16% EPCM, capital spares, owner's costs, mobile equipment and freight) are estimated at \$46.9 million. The production well field is estimated at \$14.6 million and upgrades to the SX-EW and related infrastructure costs are estimated at \$26.8 million. Initial production of copper cathode through the JCM facilities is estimated to be 25 million pounds per annum. Total sustaining capital costs over the life of the mine are \$742 million, which includes production well-field expansion, SX-EW expansion, acid plant construction and water treatment facilities. The Direct Operating Cash Cost is \$0.65/lb and the All-In Cost (all capital and operating costs) is \$1.23/lb.

The Company has also evaluated a secondary case without an Acid Plant. In this case the project retains strong economics, highlighted by a pre-tax NPV_{7.5} of \$978 million and an IRR of 48.4% (post-tax: NPV_{7.5} of \$691 million and IRR of 40.5%). Total initial capital expenditures remain the same as the “Acid Plant” scenario. Total sustaining capital costs over the life of the mine are \$661 million, which includes production well-field expansion, SX-EW expansion and water treatment facilities. Average life-of-mine operating direct cash costs are estimated at \$0.97/lb for the “No-Acid Plant” option with an All-In Cost of \$1.50 per pound.

KEY PARAMETERS				
	Acid Plant		No-Acid Plant	
Copper Cathode sold (million lb)	2,165		2,165	
Copper Price (\$/lb)	2.75		2.75	
Gross Revenue (million \$)	6,019**		5,954	
Operating Costs	(million \$)	Cost \$/lb	(million \$)	Cost \$/lb
Production (Wellfield)	641	0.29	1,303	0.60
SXEW	497	0.23	512	0.24
Water Treatment Plant	113	0.05	113	0.05
G&A	<u>167</u>	<u>0.08</u>	<u>167</u>	<u>0.08</u>
Direct Operating Cash Costs	1,418	0.65	2,095	0.97
Royalties	272	0.13	272	0.13
Other Production Expenses	189	0.09	180	0.08
Initial Capital Costs*	(million \$)	Cost \$/lb	(million \$)	Cost \$/lb
Production (Wellfield)	14.6	0.01	14.6	0.01
SXEW + Infrastructure	26.8	0.01	26.8	0.01
Owners Costs	<u>5.5</u>	<u>0.00</u>	<u>5.5</u>	<u>0.00</u>
Sub-total Initial Capital Costs	46.9	0.02	46.9	0.02
Sustaining Capital Costs	(million \$)	Cost \$/lb	(million \$)	Cost \$/lb
Production (Wellfield)	396	0.18	396	0.18
Plant + Infrastructure	<u>346</u>	<u>0.16</u>	<u>265</u>	<u>0.12</u>
Sub-total Sustaining Capital Costs	742	0.34	661	0.30
All in cost (all capital + operating)	2,668	1.23	3,255	1.50
Taxes	995	0.46	754	0.35

* includes 20% contingency

** assumes sale of excess acid in some years

Mineral Resources and Mineral Reserves

Mineral Resource Estimate

The total mineral resource estimate for the North Star Deposit is based on results from 122 drill holes totalling 158,785 feet and is effective as of October 1, 2016. The estimate is classified as a measured, indicated or inferred mineral resource, consistent with the CIM definitions referred to in NI 43-101. Excelsior is not aware of any environmental, permitting, legal, title, taxation, socio-political, marketing or other issues which may materially affect its estimate of mineral resources.

North Star Resources (Oxide and Transition at 0.05% cut-off)			
Category	Short Tons (million)	Total Copper %	Pounds of Cu (million)
Measured	199	0.36	1,427
Indicated	674	0.27	3,567
Total M&I	873	0.29	4,995
Inferred	187	0.17	630

The North Star mineral resources were modeled to respect the detailed lithologic, structural, and oxidation modeling completed by Excelsior. Copper mineral domains were interpreted on east-west vertical cross sections on 100-foot spacing, which encompass the 2.3-mile north-south and 1.3-mile east-west extents of the deposit. These domains were then used to explicitly constrain the estimation of copper grades into 50 x 100 x 25 foot (x, y, z) model blocks using 20-foot composites and inverse-distance interpolation. The grade estimation is further controlled by the incorporation of search ellipses that reflect the orientations of modeled structural zones, as well as those of favorable stratigraphic units in areas unaffected by the structures.

All samples were prepared from manually split half-core sections on site in Arizona. Split drill core samples were then sent to Skyline Assayers & Laboratories ("Skyline") in Tucson, Arizona, an independent laboratory, for Total Copper and Sequential Copper analyses. Skyline is accredited with international standard ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Analytical results for Total Copper, Acid Soluble Copper, and Cyanide Soluble Copper were reported. Excelsior has no relationship with Skyline Labs other than Skyline being a service provider. Standards, blanks, and duplicate assays are included at regular intervals in each sample batch submitted from the field as part of an ongoing Quality Assurance/Quality Control Program.

Mr. Michael M. Gustin, with the independent firm Mine Development Associates (MDA) of Reno, Nevada, is a Qualified Person as defined by NI 43-101 and is responsible for this mineral resource estimate. He has verified, reviewed and approved the technical disclosure contained in this section of the news release. Mr. Gustin has verified the data underlying the results by reviewing the drilling, sampling, assay, and quality assurance and quality control data, as well as the geologic interpretations completed by Excelsior. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

Mineral Reserve Estimate

The FS mineral reserve is based on an economic analysis of the mineral resource using a copper price of \$2.75/lb and key parameters developed from prior test work, the 2016 FS and the most recent test work completed in 2015 and 2016. The economic optimization was performed on Measured and Indicated Resources at a cut-off grade of 0.05% total Cu. EBIT (earnings before interest and tax) was calculated on a resource block by block basis using the key economic and technical parameters. For a column of resource blocks to be included in the reserve, the capital costs of establishing the wells for those blocks would have to be less than the combine EBIT for the same blocks. The mineral reserve was estimated after applying engineering and operational design parameters which removed the thinner and deeper portions of the mineral resource. Internal dilution has been included in the final mineral reserve estimate. MDA is of the opinion that the mineral reserve estimate derived in this FS reasonably quantifies the economical mineralization of the North Star Deposit. The reserve estimate is as of October 1, 2016 and the mineral reserves presented in the table below are included in the mineral resource estimate set out above.

North Star Mineral Reserves (Oxide and Transition at 0.05% cut-off)			
Category	Short Tons (million)	Total Copper %	Pounds of Cu (million)
Probable	782	0.29	4,505

Mr. Neil Prenn, of MDA of Reno, with the independent firm Mine Development Associates (MDA) of Reno, Nevada, is a Qualified Person as defined by NI 43-101 and is responsible for reviewing and approving this mineral reserve estimate. He has verified, reviewed and approved the technical disclosure contained in this section of the news release. Mr. Prenn has verified the data underlying the results by reviewing the drilling, sampling, assay, and quality assurance and quality control data, as well as the geologic interpretations completed by Excelsior.

Technical Report and Qualified Person

The Report will be filed on SEDAR and on Excelsior's website within 45 days of the date of this news release. The Report will consist of a summary of the FS. The Report is being prepared under the supervision of Richard Zimmerman, SME-RM of M3 Engineering & Technology Corporation, Tucson, Arizona, who is a Qualified Person that is independent of the Company. The Report will also receive contributions from the following additional Qualified Persons, who are also independent of the Company:

- Dr. Ronald J. Roman of Leach, Inc., Tucson, Arizona (metallurgy and leaching recovery).
- Mr. Neil Prenn, of MDA of Reno, Nevada (mineral reserve).
- Mr. Michael M. Gustin of MDA of Reno, Nevada (geology and mineral resource).
- Mr. R. Douglas Bartlett, of Clear Creek and Associates of Phoenix, Arizona (hydrology, mining method, permitting and environment).
- Mr. Thomas L. Drielick, of M3 Engineering & Technology Corporation, Tucson, Arizona (recovery methods, capital and operating costs, and economic analysis).

Each of these Qualified Persons has reviewed and approved the technical information contained in this news release that is relevant to their area of responsibility and verified the data underlying such technical information.

About Excelsior Mining

Excelsior Mining "*The Copper Solution Company*" is a mineral exploration and development company that is advancing the Gunnison Copper Project in Cochise County, Arizona. The project is an advanced staged, low cost, environmentally friendly in-situ recovery copper extraction project that is scheduled for commercial production in 2018.

Prior to the release of the Report on the FS results, additional information about the Gunnison Copper Project can be found in the technical report filed on SEDAR at www.sedar.com entitled: "Gunnison Copper Project, NI 43-101 Technical Report, Prefeasibility Study Update" dated March 23, 2016.

For more information on Excelsior, please visit our website at www.excelsiormining.com.

ON BEHALF OF THE EXCELSIOR BOARD

"Stephen Twyerould"
President & CEO

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Cautionary Note Regarding Forward-Looking Information

This news release contains "forward-looking information" concerning anticipated developments and events that may occur in the future. Forward looking information contained in this news release includes, but is not limited to, statements with respect to: (i) the estimation of mineral resources and mineral reserves; (ii) the robust economics and potential returns associated with the Gunnison Project, (iii) the technical viability of the Gunnison Project; (iv) the market and future price of copper; (v) expected infrastructure requirements; (vi) the results of the FS including statements about future production, future operating and capital costs, the projected IRR, NPV, payback period, construction timelines, permit timelines and production timelines for the Gunnison Project, (vii) expected acid consumption rates; (viii) the use of Johnson Camp infrastructure; (ix) the commencement of commercial production from the Gunnison Project; and (x) the ability to mine the Gunnison Project using in-situ recovery mining techniques.

In certain cases, forward-looking information can be identified by the use of words such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" suggesting future outcomes, or other expectations, beliefs, plans, objectives, assumptions, intentions or statements about future events or performance. Forward-looking information contained in this news release is based on certain factors and assumptions regarding, among other things, the estimation of mineral resources and mineral reserves, the realization of resource and reserve estimates, copper and other metal prices, the timing and amount of future development expenditures, the estimation of initial and sustaining capital requirements, the estimation of labour and operating costs, the availability of necessary financing and materials to continue to develop and construct the Gunnison Project in the short and long-term, the progress of development activities, the receipt of necessary regulatory approvals, the completion of the permitting process, the estimation of insurance coverage, and assumptions with respect to currency fluctuations, environmental risks, title disputes or claims, and other similar matters. While the Company considers these assumptions to be reasonable based on information currently available to it, they may prove to be incorrect.

Forward looking information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include risks inherent in the exploration and development of mineral deposits, including risks relating to changes in project parameters as plans continue to be redefined including the possibility that mining operations may not commence at the Gunnison Project, risks relating to variations in mineral resources and reserves, grade or recovery rates resulting from current exploration and development activities, risks relating to the ability to access infrastructure, risks relating to changes in copper and other commodity prices and the worldwide demand for and supply of copper and related products, risks related to increased competition in the market for copper and related products and in the mining industry generally, risks related to current global financial conditions, uncertainties inherent in the estimation of mineral resources, access and supply risks, reliance on key personnel, operational risks inherent in the conduct of mining activities, including the risk of accidents, labour disputes, increases in capital and operating costs and the risk of delays or increased costs that might be encountered during the development process, regulatory risks, including risks relating to the acquisition of the necessary licenses and permits, financing, capitalization and liquidity risks, including the risk that the financing necessary to fund the exploration and development activities at the Gunnison Project may not be available on satisfactory terms, or at all, risks related to disputes concerning property titles and interest, environmental risks and the additional risks identified in the "Risk Factors" section of the Company's reports and filings with applicable Canadian securities regulators.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. Accordingly, readers should not place undue reliance on forward-looking information. The forward-looking information is made as of the date of this news release. Except as required by applicable securities laws, the Company does not undertake any obligation to publicly update or revise any forward-looking information.

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, and no securities regulatory authority has either approved or disapproved of the contents of this release.