

# Defense Metals Announces Updated and Increased Mineral Resource Estimate for Its Wicheeda Rare Earth Element Carbonatite Deposit

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VANCOUVER, May 13, 2020 - [Defense Metals Corp.](#) ("Defense Metals" or the "Company") (TSX-V: DEFN) is pleased to announce completion of an Updated Mineral Resource Estimate ("MRE") with respect to its 1,708 hectare (4,220 acre) Wicheeda Rare Earth Element (REE) Project located near Prince George, British Columbia (BC), Canada.

## Highlights:

- 49% increase in overall tonnage<sup>1</sup> of Updated Wicheeda REE Project MRE based on the results of 2019 diamond drilling of 13 holes totaling 2,005 metres;
- 30% increase in overall average grade<sup>1</sup>, in part through the incorporation of potentially economically significant praseodymium not previously estimated;
- Conversion of 4,890,000 tonnes to Indicated Resources<sup>1</sup> previously defined as Inferred;
- Increased Inferred Resources by 730,000 tonnes in comparison to Defense Metals Initial Wicheeda MRE<sup>1</sup>; and
- Potential for expansion of the Wicheeda Deposit to the north and west in the down plunge direction.

The updated Wicheeda MRE comprises an Indicated Mineral Resource of 4,890,000 tonnes averaging 3.02% LREO (Light Rare Earth Elements), in addition to Inferred Mineral Resource of 12,100,000 tonnes averaging 2.52% LREE reported at a cut-off grade of 1.5% LREE (sum of cerium (Ce), lanthanum (La), neodymium (Nd), praseodymium (Pr), and samarium (Sm); in addition to niobium (Nb) percentages). The lower cut-off grade was established based on consideration of metal price and concentrate payable, metallurgical recovery, and operating cost assumptions and uncertainty. The resource, constrained by applying a conceptual Lerchs-Grossman (LG) pit shell, is provided in Table 1 below, which includes a review of the MRE at a range of cut-off grades.

Craig Taylor, President and CEO of Defense Metals comments: "With the release of our updated Mineral Resource Estimate Defence Metals has delivered on another significant milestone in advancing what management believes is one of the most compelling undeveloped rare earth element assets in North America. Our successful 2019 drill campaign has resulted in a significant expansion and increased level of confidence in the mineral resources of the Wicheeda REE Deposit, which remains open to the north and west."

Table: Indicated and Inferred Resources for LREE and Sensitivity Analysis

Category	Cutoff (TOTAL METAL% <sup>2</sup> )	Tonnes > Cutoff (tonnes)	Grade > Cutoff							
			Ce (%)	La (%)	Nd (%)	Pr (%)	Sm (%)	Nb (%)	LREE <sup>3</sup> (%)	LREO <sup>4</sup> (%)
Indicated	1.0	5,150,000	1.22	0.91	0.26	0.10	0.02	0.02	2.52	2.95
	1.5	4,890,000	1.26	0.94	0.26	0.11	0.02	0.02	2.58	3.02
	2.0	3,950,000	1.35	1.01	0.28	0.11	0.02	0.02	2.77	3.25
	2.5	2,390,000	1.53	1.14	0.31	0.13	0.02	0.02	3.12	3.66
	3.0	1,140,000	1.76	1.31	0.35	0.15	0.02	0.02	3.57	4.19
	3.5	500,000	2.01	1.48	0.38	0.17	0.02	0.02	4.05	4.75
Inferred	1.0	13,770,000	1.13	0.83	0.25	0.10	0.04	0.02	2.33	2.72
	1.5	12,100,000	1.20	0.89	0.27	0.10	0.02	0.04	2.48	2.90
	2.0	8,890,000	1.33	0.99	0.29	0.11	0.02	0.03	2.75	3.22
	2.5	5,320,000	1.50	1.13	0.33	0.13	0.03	0.03	3.11	3.65
	3.0	2,670,000	1.70	1.29	0.37	0.14	0.03	0.02	3.53	4.14
	3.5	1,190,000	1.90	1.45	0.41	0.16	0.04	0.02	3.95	4.63

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SEDAR  
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[www.sedar.com](http://www.sedar.com).

Notes for Resource Table:

- The Mineral Resource Estimate was prepared by Steven J. Nicholls (M AIG), and Warren Black, M.Sc., P.Geo. of APEX Geoscience Ltd., with geological modelling contribution by Kristopher J. Raffle. P.Geo. of APEX Geoscience Ltd. and a director of Defense Metals, in accordance with CIM Definition Standards and NI 43-101, with an effective date of April 29, 2020.
- Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability. There has been insufficient exploration to allow for the classification of the indicated and inferred resources tabulated as a measured mineral resource, however, it is reasonably expected that the majority of the indicated and inferred mineral resources could be upgraded to indicated or measured mineral resources with continued exploration. There is no guarantee that any part of the mineral resources discussed herein will be converted into a mineral reserve in the future.
- Mineral Resources are reported at a cut-off grade of 1.5% LREE (light rare element, sum of Ce, La, Nd, Pr; in addition to Nb, and Sm %'s).
- The cut-off grade includes the following considerations:

- Metal prices of: Ce = US\$2.11/kg; La = US\$2.10; Nd = US\$51.44; Pr = US\$561.9; Nb = US\$30.29; Sm = US\$2.07;
- Exchange rate of 0.75 US\$:C\$;
- Concentrate production grades of: Ce = 23.7%; La = 17.9%; Nd = 5.3%; Pr=1.8% ; Nb = 0.5%; Sm = 0.01%;
- Concentrate payable of 80%;
- Hydromet refining charges of C\$0.70/kg concentrate;
- Offsite Transport costs of C\$180/t;
- No royalties have been applied (A 2% royalty payable to the Vendor adds LREE 0.02% to the cut-off item which is beyond the accuracy of the cut-off item and has no material impact to the resource estimate.
- The resources are constrained by resource pit shell generated using the following inputs:
  - Mining cost of C\$3.50/t;
  - Waste mining costs of C\$3.25/t;
  - Process Costs of C\$40/t (includes \$10/t for transporting from pit to mill);
  - G&A Costs of C\$7/t
  - Process Recoveries: Ce = 85.7%; La = 85.7%; Nd = 85.7%; Pr = 85.7%; Nb = 57.0%; Sm = 85.7%
  - Overall pit slope angles of 45°.

The resource is classified according to the CIM "Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines" dated November 29<sup>th</sup>, 2019 and CIM "Definition Standards for Mineral Resources and Mineral Reserves" dated May 10<sup>th</sup>, 2014. A NI 43-101 technical report disclosing the Updated Wicheada REE Project MRE will be filed on SEDAR within 45 days.

Factors that may affect the estimates include: metal price and concentrate payable assumptions, changes in interpretations of mineralization geometry, continuity of REE mineralization zones, changes to kriging assumptions, metallurgical recovery assumptions, operating cost assumptions, confidence in the modifying factors, including assumptions that surface rights to allow mining infrastructure to be constructed will be forthcoming, delays or other issues in reaching agreements with regulatory authorities and stakeholders, and changes in land tenure requirements or in permitting requirements.

#### Updated Mineral Resource Estimate Details

The drillhole database used to calculate the MRE is comprised of 27 exploration diamond drillholes completed in 2008 and 2009 by previous operators (14 holes totalling 2,244 metres) and in 2019 by Defence Metals (13 holes totalling 2,005 metres), containing a total of 1,315 drill core samples analyzed for REE by multi-element fusion Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and pressed pellet X-ray Fluorescence (XRF) methods. Sample intervals ranged from 0.5 to 7.1 metres in length, with 96% of the intervals having a length of 3.0 metres or less.

The Wicheada 3D geological model created by APEX Geoscience Ltd. integrates assay and geological data collected from diamond core drilling; surface geologic mapping; soil geochemical; and airborne magnetic; and radiometric geophysical surveys. Based on these data, the Wicheada REE Deposit is modelled as a southeast-trending, north to northeast dipping composite layered syenite-carbonatite sill complex having dimensions of approximately 400 metres north-south by 100-250 metres east-west. Diamond drilling data supports the interpretation of a moderately north-northeast dipping, shallowly north plunging, layered sill complex having low REE grade syenite at its base, overlain by transitional intermediate REE grade hybrid xenolithic-carbonatite (fenite), and finally relatively higher REE grade dolomite-carbonatite rocks, which form the main body of the Wicheada REE Deposit outcropping at surface. Based on the drill results to date, the eastern margin of the Wicheada REE Deposit is marked by a north-northwest trending sub-vertical lithologic contact. This layered sill complex occurs within an unmineralized limestone waste rock. There remains the potential for expansion of the Wicheada Deposit to the north and west in the down plunge direction where 2019 drilling indicates the deposit remains open.

The dolomite-carbonatite, xenolithic-carbonatite, syenite, and limestone have different mineralization controls and styles that contain varying grades of REE. Therefore, these four rock types modelled within the 3D geological model are used to define the estimation domains used to calculate the MRE. The 3D rock model was used to discretize drillhole data and the volume of the deposit into distinct zones (domains) that were treated separately during exploratory data analysis and resource estimation.

Length-weighted averaged composites of 3 metre core length, restricted to each rock type, were calculated

and used for exploratory data analysis and resource estimation. Composites were capped to a specified maximum value for each estimation and metal of interest. Composites within each domain are evaluated to determine appropriate capping levels for each estimated metal. Only the dolomite-carbonatite estimation domain within the east fault-block contains enough data to allow the modelling of a robust variogram for each of the metals of interest. The modelled variograms from that domain are scaled to the variance of the composites within the other estimation domains; these scaled variograms were used for resource estimation.

A block model with a regularized cell size of 3 m (X) by 3 m (Y) by 3 m (Z) was used to estimate grade into for each metal for the MRE Ordinary Kriging (OK). The percentage of the volume of each block below the bare earth surface and within each rock type was calculated using the 3D geological model and a 3D surface model. The search ellipsoid size used to estimate each metal was defined by the modelled variograms, which range from 100 to 140 metres in the major axis, 80 to 100 in the minor axis, and 11 to 15 metres in the vertical axis. Block estimation employed varying anisotropy, which uses different rotation angles to define the principal directions of the variogram model and search ellipsoid on a per-block basis. Blocks within estimation domains are assigned rotation angles using a modelled 3D mineralization trend surface wireframe, which allows structural complexities to be reproduced in the estimated block model. A total of 795 density measurements were used to assign density to each block based on its dominant rock type. Density values applied to the block model were: 2.94 g/cm<sup>3</sup> (dolomite-carbonatite), 2.87 g/cm<sup>3</sup> (xenolithic-carbonatite), 2.70 g/cm<sup>3</sup> (syenite), and 2.74 g/cm<sup>3</sup> (limestone). The final grade estimates are validated visually by comparing each block's metal estimates to the raw downhole assay data and statistically by generating swath and volume-variance plots.

#### Qualified Person

The scientific and technical information contained in this news release as it relates to the Wicheada Rare Earth Element Project has been reviewed and approved by Kristopher J. Raffle, P.Geo. (BC) Principal and Consultant of APEX Geoscience Ltd. of Edmonton, AB, a director of Defense Metals and a "Qualified Person" as defined in National Instrument 43-101 &#8211; Standards of Disclosure for Mineral Projects. Mr. Raffle verified the data disclosed which includes a review of the analytical and test data underlying the information and opinions contained therein.

The Wicheada Deposit Mineral Resources have an effective date of April 29, 2020. The qualified persons responsible for the estimate are Steven J. Nicholls (M AIG), and Warren Black, M.Sc., P.Geo. of APEX Geoscience Ltd., with geological modelling contribution by Kristopher J. Raffle. P.Geo. of APEX Geoscience Ltd. and a director of Defense Metals, in accordance with CIM Definition Standards and NI 43-101.

#### About the Wicheada REE Property

The 1,708 hectare Wicheada REE Property, located approximately 80 km northeast of the city of Prince George, British Columbia, is readily accessible by all-weather gravel roads and is nearby to infrastructure, including power transmission lines, the CN railway and major highways.

Geologically, the property is situated in the Foreland Belt and within the Rocky Mountain Trench, a major continental geologic feature. The Foreland Belt contains part of a large alkaline igneous province, stretching from the Canadian Cordillera to the southwestern United States, which includes several carbonatite and alkaline intrusive complexes hosting the Aley (niobium), Rock Canyon (REE), and Wicheada (REE) deposits.

#### About Defense Metals Corp.

Defense Metals is an advanced mineral exploration company focused on the acquisition of mineral deposits containing metals and elements commonly used in the electric power market, military, national security and the production of green energy technologies, such as, high strength, light weight, rare earth magnets. Defense Metals' primary focus is to exercise its option to acquire 100% of the 1,708 hectare Wicheada Rare Earth Element Project. [Defense Metals Corp.](#) trades in Canada under "DEFN" on the TSX Venture Exchange, in the United States, under "DFMTF" on the OTCQB, and in Germany on the Frankfurt Exchange under the symbol of "35D".

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 news release.

#### Forward Looking Information

This news release includes certain statements that constitute "forward-looking information" within the meaning of applicable securities law, including without limitation, the Company's plans for its properties/projects, expansion of the deposit, completion and filing of the technical report, other statements relating to the technical, financial and business prospects of the Company, and other matters.

Forward-looking statements address future events and conditions and are necessarily based upon a number of estimates and assumptions. These statements relate to analyses and other information that are based on forecasts of future results, estimates of amounts not yet determinable and assumptions of management. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance (often, but not always, using words or phrases such as "expects" or "does not expect", "is expected", "anticipates" or "does not anticipate", "plans", "estimates" or "intends", or stating that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved), and variations of such words, and similar expressions are not statements of historical fact and may be forward-looking statements. Forward-looking statement are necessarily based upon a number of factors that, if untrue, could cause the actual results, performances or achievements of the Company to be materially different from future results, performances or achievements express or implied by such statements. Such statements and information are based on numerous assumptions regarding present and future business strategies and the environment in which the Company will operate in the future, including the price of metals, anticipated costs and the ability to achieve goals, that general business and economic conditions will not change in a material adverse manner, that financing will be available if and when needed and on reasonable terms, and that third party contractors, equipment and supplies and governmental and other approvals required to conduct the Company's planned exploration activities will be available on reasonable terms and in a timely manner. While such estimates and assumptions are considered reasonable by the management of the Company, they are inherently subject to significant business, economic, competitive and regulatory uncertainties and risks.

Forward-looking statements are subject to a variety of risks and uncertainties, which could cause actual events, level of activity, performance or results to differ materially from those reflected in the forward-looking statements, including, without limitation: (i) risks related to gold, copper, uranium, rare earth elements, and other commodity price fluctuations; (ii) risks and uncertainties relating to the interpretation of exploration results; (iii) risks related to the inherent uncertainty of exploration and cost estimates and the potential for unexpected costs and expenses; (iv) that resource exploration and development is a speculative business; (v) that the Company may lose or abandon its property interests or may fail to receive necessary licences and permits; (vi) that environmental laws and regulations may become more onerous; (vii) that the Company may not be able to raise additional funds when necessary; (viii) the possibility that future exploration, development or mining results will not be consistent with the Company's expectations; (ix) exploration and development risks, including risks related to accidents, equipment breakdowns, labour disputes or other unanticipated difficulties with or interruptions in exploration and development; \* competition; (xi) the potential for delays in exploration or development activities or the completion of geologic reports or studies; (xii) the uncertainty of profitability based upon the Company's history of losses; (xiii) risks related to environmental regulation and liability; (xiv) risks associated with failure to maintain community acceptance, agreements and permissions (generally referred to as "social licence"), including local First Nations; (xv) risks relating to obtaining and maintaining all necessary government permits, approvals and authorizations relating to the continued exploration and development of the Company's projects; (xvi) risks related to the outcome of legal actions; (xvii) political and regulatory risks associated with mining and exploration; (xix) risks related to current global financial conditions; and (xx) other risks and uncertainties related to the Company's prospects, properties and business strategy. These risks, as well as others, could cause actual results and events to vary significantly.

Factors that could cause actual results to differ materially from those in forward looking statements include, but are not limited to, continued availability of capital and financing and general economic, market or business conditions, the loss of key directors, employees, advisors or consultants, adverse weather conditions, increase in costs, equipment failures, litigation, failure of counterparties to perform their contractual obligations and fees charged by service providers. Investors are cautioned that forward-looking statements are not guarantees of future performance or events and, accordingly are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty of such statements. The forward-looking statements included in this news release are made as of the date hereof and the Company

disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as expressly required by applicable securities legislation.

SOURCE [Defense Metals Corp.](#)

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