



**MACDONALD MINES ANNOUNCES INITIAL RESULTS FROM ITS DRILLING PROGRAM AT THE SPJ PROJECT, ONTARIO
DRILLS 5.06 G/T GOLD OVER 5.40 M, INCLUDING 15.70 G/T GOLD OVER 1.40 M**

Toronto, Ontario – February 27, 2025 - MacDonald Mines Exploration Ltd. (TSX-V: BMK, OTC: MCDMF) (“MacDonald Mines” or the “Company”) is pleased to announce the initial results from 4 drill holes from its drilling program that took place in January 2025 on its 100% owned SPJ Project near Sudbury, Ontario.

The 2025 drilling program was planned in collaboration with Canuc Resources Corporation (“**Canuc**”) and consisted of 6 drill holes totaling 815 m that targeted the lenses of gold mineralization associated with the North Pit of the Scadding Gold Deposit. On February 13, 2025, Canuc and MacDonald announced a definitive arrangement agreement pursuant to which Canuc will acquire all of the issued and outstanding shares of Macdonald Mines.

Highlights (see Table 1 and Table 2, and Figure 1)

- **Summary**
 - Confirmed the presence of stacked lenses of gold mineralized chlorite in the North Pit area of the Scadding Deposit
 - The best results are from the Upper Chlorite Zone
- **Upper chlorite zone**
 - Intersection of 5.06 g/t gold over 5.40 m including 15.70 g/t gold over 1.40 m in SM-25-114
 - Extended high-grade gold mineralization in the Upper Chlorite Zone in the tested area
 - Intersection of 9.73 g/t gold over 1.50 m in SM-25-112 less than 11 m below surface
- **Lower chlorite zone**
 - SM-25-112 intersected 6.83 g/t gold over 1.00 m
 - SM-25-113 intersected 3.38 g/t gold over 2.00 m

The 2025 drilling program represents the first step in the evaluation of the mineralization zones of the North Pit area as potential source material for the Scadding Tailings reprocessing being undertaken by Environmental Tailings Corporation (“**ETC**”). An agreement between ETC and MacDonald Mines for the reprocessing and reclamation of the Scadding Tailings was announced on November 15, 2022.

Future exploration programs on the SPJ property will continue to test the zones of mineralization of the Scadding Gold Deposit in preparation for a mineral resource estimation. The Company also intends to continue to test the potential of the McLaren Fault Zone to host significant zones of iron-rich copper-gold mineralization affiliated with iron oxide-copper-gold deposits in the Alwyn area. This follows from the encouraging results and the subsequent interpretations of the 2023 drilling program in the Alwyn area.

Table 1 - Drilling results from the 2025 drilling program

Hole (#)	From (m)	To (m)	Length (m)*	Gold (g/t)	Zone (name)
SM-25-112	10.00	11.50	1.50	9.73	Upper Chlorite Zone
	47.00	54.50	7.50	1.66	Lower Chlorite Zone
including	52.00	53.00	1.00	6.83	
SM-25-113	81.50	83.50	2.00	3.38	Upper Chlorite Zone
	97.50	102.00	4.50	0.73	Lower Chlorite Zone
SM-25-114	58.50	63.90	5.40	5.06	Upper Chlorite Zone
including	58.50	59.50	1.00	5.11	
and	62.50	63.90	1.40	15.70	
	94.80	96.00	1.20	3.35	Lower Chlorite Zone

**Intercepts are calculated using a 0.40 g/t Au cut-off with no capping applied and are reported over core lengths. True widths are estimated to vary between 50 to 95% of the reported core length. The reported assays results represent 517.11 m of assayed core from the 2025 drilling program distributed in 4 drill holes.*

Table 2 – Drill hole location

Hole (#)	UTM E (m)	UTM N (m)	Elevation (masl)	Azimuth (°)	Inclination (°)	Length (m)	Assays Status
SM-25-112	529165	5166689	307.0	0.0	81.0	100.05	Complete
SM-25-113	529243	5166690	308.4	262.0	53.0	120.00	
SM-25-114	529243	5166690	308.4	275.0	73.0	120.00	
SM-25-115	529243	5166690	308.4	187.0	71.0	185.00	
SM-25-116	529304	5166682	309.3	275.0	77.0	170.25	Pending
SM-25-117	529254	5166735	304.8	200.0	79.1	120.00	

Quality Assurance/Quality Control ("QA/QC") Measures

Individual drill core samples are labelled and split in half along a pre-marked cutting line using a diamond saw. A consistent half-core sample is then placed in individual plastic sample bags that are sealed. The remaining half-core samples are kept at the core storage facility of the Company located on the SPJ project. Groups of samples are then placed into durable rice bags with security seals to be transported using a commercial carrier for analyses to Actlabs in Ancaster, Ontario. NQ core gold assays were obtained by 50-gram fire-assaying-AA finish or by 1-kilogram screen fire assay. The 1-kilogram screen assay method is selected for samples anticipated to contain coarse gold and when the fire-assay-AA finish return results greater or equal to 2.25 g/t Au. The residual coarse reject portions of the samples remain in storage for a 90-day period if further work or verification is needed.

As part of its QA/QC program, MacDonald Mines inserts external gold standards (low- to high-grade) and blanks every 20 samples and routinely insert blanks immediately after samples with visible gold. Quarter core duplicates are routinely inserted to evaluate the natural variability of gold mineralization. The gold assay certificates are sent to at least three members of the senior management team.

Qualified Person

Jean-François Montreuil, P.Geo., Chief Geologist of MacDonald Mines, is the qualified person as defined by National Instrument 43-101 *Standards of Disclosure for Mineral Projects*, responsible for preparing, supervising, and approving this news release's scientific and technical content.

About MacDonald Mines Exploration Ltd.

MacDonald Mines is a Canadian exploration company focused on exploring for critical and precious metals in a Metasomatic Iron alkali-calcic (MIAC) mineral system on its 100%-owned, 19,720 ha (197.2 km²) SPJ Project. MIAC systems are known for hosting IOCG and affiliated deposits. The property is located 20 km southeast of the prolific Sudbury Mining Camp in Northern Ontario. The Company's primary exploration focuses are the polymetallic and iron-poor to possibly iron-rich Ag-Au-Cu-Co showings and prospects along the McLaren Lake Fault System that includes the Alwyn Cu-Au-(Ag-Co) trend and the Ashigami Co-Cu-Au showings, and the iron-rich to iron-poor Glade Au trend recognized to host Au mineralization comparable to the Scadding deposit. In addition, a potential for nickel, cobalt, copper, and platinum group elements in the Nipissing intrusions that are hosting the Candore, Jerome and Glade showings within the SPJ Project.

To learn more about MacDonald Mines, please visit www.macdonaldmines.com

ON BEHALF OF THE BOARD

"Mike England"

Mike England, CEO & DIRECTOR

FOR FURTHER INFORMATION PLEASE CONTACT:

Telephone: 1-604-683-3995 TollFree:1-888-945-4770

E-mail: mike@engcom.ca

Forward-Looking Statements

This news release may contain certain "forward looking statements." Forward-looking statements involve known and unknown risks, uncertainties, assumptions and other factors that 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 statements. Any forward-looking statement speaks only as of the date of this news release and, except as may be required by applicable securities laws, the Company disclaims any intent or obligation to update any forward-looking statement, whether as a result of new information, future events or results or otherwise.

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.

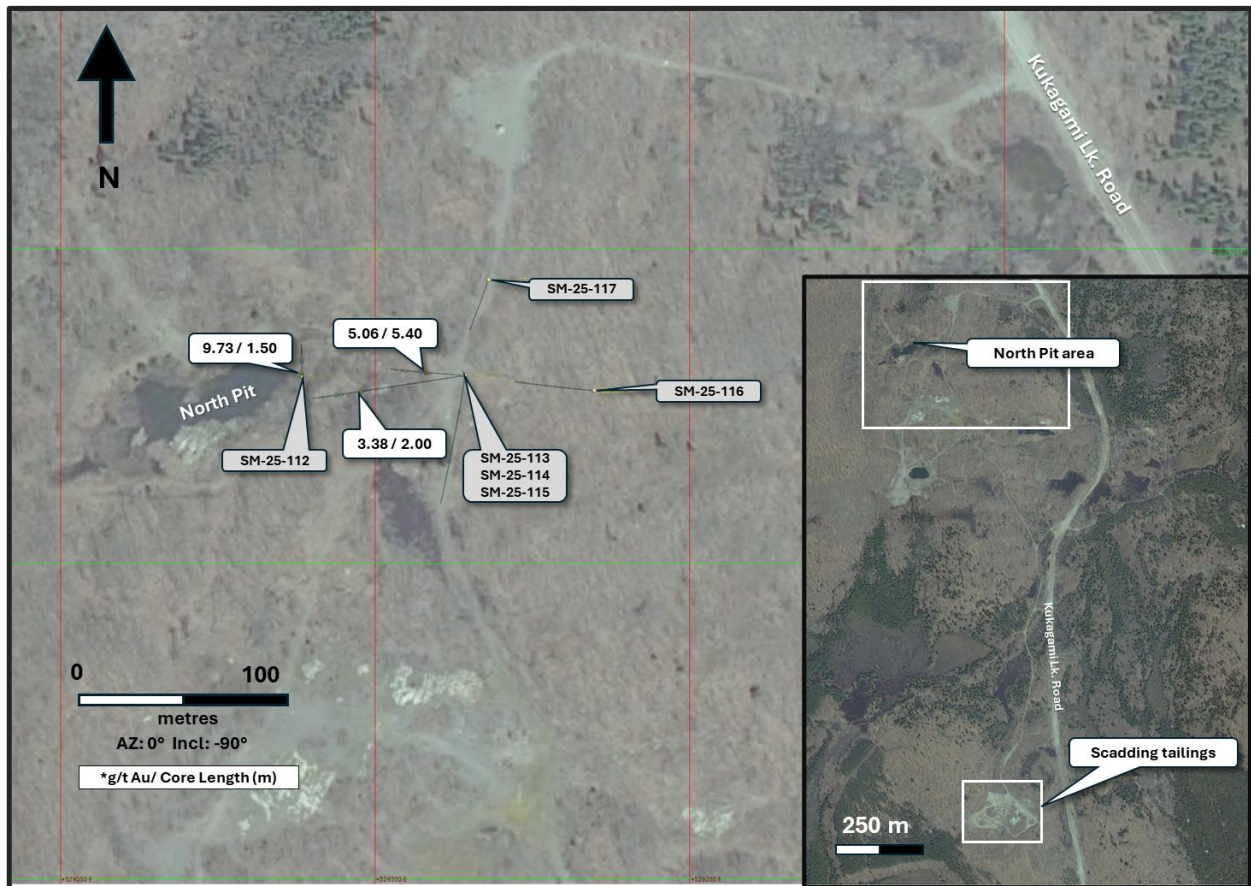


Figure 1 - Location of drill holes and results from the 2025 drilling program in the North Pit area of the Scadding Deposit