

# Cleghorn Minerals Reports on Recent Channel Sampling Results from Historical Trenches & Pits on The Meech Lake - Matachewan Prospect

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- 4.91% copper, 1.35% nickel, 1.53 ppm platinum and 4.49 ppm palladium over 0.5 metres, at the Kell's Showing
- 2.08 ppm Gold, 5.2 ppm Silver & 1.08% Zinc over 0.7 metres, at the Waterhole Showing

[Cleghorn Minerals Ltd.](#) (TSXV: CZZ) ("Cleghorn" or the "Company") is pleased to announce Nickel-Copper-PGE and Gold-Silver-Zinc surface channel sampling results, on the Company's 100%-owned Meech Lake - Matachewan Prospect, located in northeastern Ontario.

## 2023-2024 Project Exploration Program Summary

A Phase II exploration program on the Meech Lake - Matachewan Prospect was completed in the Fall of 2023. The program consisted of detailed mapping and channel sampling over the Kell's Showing (Ni-Cu-PGE), T25 Trench Area (Au-Ag-Zn), Waterhole Showing (Au-Ag-Zn), and Kell's Cabin Showing (Au-Ag-Zn) of previously excavated historic pits and trenches (2018). The objective of the mapping and channel sampling program was to define and characterize the surface mineralization outlined in the 2018 drill program.

A total of eight (8) excavations were mapped and sampled with four (4) on and over the western inferred strike extensions respectively of the Kell's Showing (designated Trenches 2-5 on the accompany map below), one (1) in the area of the T25 Showing (designated Trenches 1a and 1b - Note 1b was not washed but channel sampled, one (1) on a historical trench between the T25 and Waterhole Showings (designated Trench 6 on the accompany map below), one (1) on the Waterhole Showing (designated Trench 7 on the accompany map below), and one (1) on the Kell's Cabin Showing (designated Trench 8 on the accompany map below).

## Stripped Areas Location Map

To view an enhanced version of this graphic, please visit:  
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A total of 42 channel samples were collected over the washed and mapped historical pits and trenches.

During the second quarter of 2024, the channel sample assay results were received from the laboratory. A summary of the geology, sample highlights and the accompanying detailed mapping / channel maps for the three (3) main mineralized zones on the property identified to date, are as follows:

## Kell's Showing (Ni-Cu-PGE):

- Trench 2 & 3 - Hostrock pyroxenite is generally enriched in nickel and slightly anomalous in copper and platinum. No significant exposed mineralization and /or structures were noted.

#### Image 1

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#### Table 1

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- Trench 4 - Hostrock gabbro is also generally enriched in nickel and slightly anomalous in copper, palladium and platinum. Two separate fault structures mapped.
- Trench 5 - 4.91% copper, 1.35% nickel, 1.53 ppm platinum and 4.49 ppm palladium over a 50 cm channel. Cut across a 5 x 12 cm bleb of sulfides proximal to a fault structure that was previously covered by overburden. The sample is located immediately adjacent to the Kell's historic pit to the east where a remnant 30 x 40 cm accumulation of in-situ massive sulfide (sampled in 2017 - 8.31% Cu, 3.80% Ni, 13.5 g/t Pt, 60.4 g/t Pd) remains intact within the gabbro hostrock.

#### Image 2

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#### Table 2

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Left-Trench 4 channel samples in host gabbro with elevated nickel values in gabbro hostrock; Right-Trench 5 channel samples; sample L903426 was taken over a 12 cm long sulphide inclusion in the gabbro hostrock

#### Waterhole Showing (Au-Ag-Zn):

- Trench 1a (Historical Trench 25 Area) - Single channel sample, hostrock is lamprophyre.
- Trench 1b (Historical Trench 25 Area) - Single channel sample over mineralized and oxidized shear/fracture zone.

#### Image 3

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#### Table 3

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- Trench 6 (historical trench between the T25 and Waterhole Showings) - Four (4) channel samples are cut in a mafic volcanic hostrock across a narrow quartz stringer zone along a slip-fracture/shear zone along the northern edge of the exposed outcrop. Three of the samples generated significant zinc values ranging from 1.08 - 5.06%, as well as gold values ranging from 0.12 - 2.08 ppm, and silver values from 1.5 - 5.2 ppm, over widths of 0.6 - 0.7 cm.

#### Image 4

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#### Table 4

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Trench 6 Shear zone and weak quartz stringers crosscutting mafic volcanics with elevated Zn values;

- Trench 7 - A series of channel samples were cut across the two (2) main shears, narrow quartz stringers/veins/patches and oxidized weathered surface features, over the historical Waterhole Showing area. Gold values were generally anomalous with local elevated gold, silver and zinc values. One of the better channel samples across one of the shears graded 0.957 ppm gold, 3.9 ppm silver, 9240 ppm zinc and 1060 ppm copper, over 70 cm.

#### Image 5

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#### Table 5

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Trench 7 channel samples taken over local oxidized shear zones with quartz stringers cutting massive mafic volcanics. Elevated Zn and Au values appear to be associated with oxidized zones;

Kell's Cabin Showing (Au-Ag-Zn):

- Trench 8 - Channel samples were cut in and around the historic pit near the site of Mr. Hugh Kell's 1930's cabin. The best result was from a sample cut across the main shear zone across the top end of the historical pit; assaying 0.168 ppm gold, 9.1 ppm silver, 9820 ppm zinc and 1030 ppm copper.



this release.

#### Additional Property Acquisitions:

Cleghorn is continuing due diligence on several property and/or transactional opportunities, in Canada and separately, located in International and jurisdictions, and will provide additional information should the examinations lead to favourable conclusions and affordable transactions.

#### About Cleghorn Minerals Ltd.:

Cleghorn is a junior mineral exploration company with a 100% interest in the Meech Lake - Matachewan Prospect, a property located in northeastern Ontario, subject to an aggregate 3.5% NSR.

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