

# First Mining Identifies Multiple High-Grade Gold Zones in Duparquet Exploration Drilling

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- Drill hole DUP24-024 returns multiple gold zones including 10.67 g/t Au over 5.3 m, 6.63 g/t Au over 9.0 m, 3.04 g/t Au over 13.5 m, and 5.97 g/t Au over 33.0 m
- Gold zones hosted in newly identified mafic volcanic units not previously modelled at Duparquet
- Demonstrates significant exploration growth potential at one of the largest gold deposits in the Abitibi Greenstone Belt

VANCOUVER, BC, June 18, 2024 /CNW/ - [First Mining Gold Corp.](#) ("First Mining" or the "Company") (TSX: FF) (OTCQX: FFMG) (FRANKFURT: FMG) is pleased to announce new drilling results from the 2024 Phase 2B winter diamond drilling program at the Duparquet Gold Project ("Duparquet Project" or the "Project") located in Quebec, Canada. This latest drilling targeted and identified new exploration trends of the North Zone, assessing the potential for higher-grade areas with extensional continuity. Drill hole DUP24-024 returned multiple intervals of significant higher-grade mineralization over considerable widths that are hosted by and within a newly identified mafic volcanic unit, including 10.67 g/t Au over 5.3 m, 6.63 g/t Au over 9 m, 3.04 g/t Au over 13.5 m, and 5.97 g/t Au over 33 m (including 9.63 g/t Au over 4.2 m and 14.43 g/t Au over 6 m). First Mining continues to explore and develop mineralization trends of the Duparquet Project for extensions and new discovery zones through its ongoing Phase 3 drilling program, which aims to continue drill testing at the North Zone, Buzz Zone, Valentre Target and additional regional opportunities.

"The higher-grade zones at these exceptional widths at Duparquet clearly demonstrate the ongoing resource growth potential of what is already one of the largest established resources in the Abitibi Greenstone Belt," stated Dan Wilton, CEO of First Mining. "What I am most excited about is the fact that this new host unit where identified has never been a focus of exploration at Duparquet, demonstrating the value of our exploration team's systematic, data-driven approach to discovery which challenges exploration biases of past operators. With our recent flow-through financing completed, First Mining is well funded to continue delivering exceptional results at Duparquet."

The Phase 2B winter program concluded in April 2024 and comprised a seven-hole, 2,856 m drill program. The objective of the drilling phase within the overall program was to target further exploration and resource growth opportunities, with a focus on optimization and depth extension targets. Highlights from the first drill holes completed in Phase 2B included drill hole DUP24-018 which returned 3.11 g/t Au over 13.16 m, and hole DUP24-019 which returned 3.07 g/t Au over 10.32 m at the North Zone (see news release from May 21, 2024), validating the geoscience approach and supporting further testing of the extensional and depth opportunities of the North Zone.

Three more holes were drilled within the Phase 2B winter program and these were strategic in targeting the North Zone higher-grade trends along strike and down-plunge. These latest drill results have further validated the upside potential of the Duparquet Project within the North Zone, where multiple intersections of significant gold mineralization were encountered which are consistent with higher-grade trends (Table 1).

Table 1: Selected Significant Drill Intercepts, 2024 Phase 2B Drill Program (Final Holes)

Hole ID	From (m)	To (m)	Length (m)	Grade (Au g/t)	Target
DUP24-022	598.45	605.58	7.13	2.47	North Zone
DUP24-023	131.0	149.45	18.45	2.38	
DUP24-023 inc.	135.1	139.2	4.1	5.58	
DUP24-023	170.82	173.6	2.78	4.43	
DUP24-023 inc.	171.6	172.3	0.7	9.80	
DUP24-024	9.0	12.0	3.0	2.15	
DUP24-024 inc.	10.0	11.0	1.0	4.25	
DUP24-024	40.4	52.55	12.15	0.95	
DUP24-024	106.2	113.23	7.03	1.61	
DUP24-024	362	365.25	3.25	2.11	
DUP24-024 inc.	364.5	365.25	0.75	6.05	
DUP24-024	448.4	453.7	5.3	10.67	
DUP24-024	464.0	470.0	6.0	1.05	
DUP24-024	476.0	485.0	9.0	6.63	
DUP24-024	488.5	522.0	33.5	3.04	
DUP24-024 inc.	503.0	507.0	4.0	4.42	
DUP24-024 and inc.	518.0	522.0	4.0	14.78	
DUP24-024	534.0	567.0	33.0	5.97	
DUP24-024 inc.	534.7	538.9	4.2	9.63	
DUP24-024 and inc.	547.0	553.0	6.0	14.43	
DUP24-024	600.0	601.0	1.0	4.72	

\*Reported intervals are drilled core lengths (true widths are estimated at 15-45% of the core length interval, assay values are uncut)

A plan map of the final Phase 2B winter exploration holes at the North Zone target is presented in Figure 1, and corresponding assay highlights presented in Table 1, with full assay results listed in Table 2 and drill hole locations in Table 3.

#### Additional Details on North Zone Drilling

The North Zone drilling strategy is focused on targeting strike extension opportunities, as well as drill testing multiple deeper, higher-grade trends that support down-plunge extension of the mineralization. The North Zone mineralization is traditionally modelled largely within porphyritic syenite units with strong sericite and silica alteration, with higher grades being returned in zones with increased alteration, 2-5% sulphides, quartz carbonate veining, and brecciation associated with sheared contacts. The increased alteration and veining are spatially coincident with project modelling associated with D2 high strain zones that are interpreted splay shear zones from the Destor-Porcupine Fault Zone.

First Mining's exploration targeting and vectoring has been focused on higher-grade trends believed to be within zones that are associated with a change in specific lithology. Consequently, there has been an

increased focus in building up the target resolution through 3D modelling of the contact zones between the syenite-hosted gold mineralization and mafic volcanic stratigraphy, as these are more favourable, proximal settings for higher-grade mineralization owing to their geochemical and rheological attributes.

Since the Company started drilling at the Project in 2023 it has had success in targeting these contact zones and this has become one of the more favourable targeting strategies for higher-grade trends outside of the traditional Beattie syenite. A key factor contributing to these successes is the integration of multiple sources of geoscience data into the 3D modelling and target definition process, including geochemistry, geophysics, oriented core and magnetic susceptibility data.

Three additional drillholes were completed for a total of 1,527.4 m, all targeting the modelled sheared contact of the syenite and the mafic volcanics at the northern contact zone of the main resource ("North Zone Target").

Drill hole DUP24-022 (Figure 2) was drilled as a step-out hole along strike of the main mineralized shear zone at Duparquet, within an area identified with significant extensional resource growth potential. Historical drilling within the area largely occurred above the plunge of the main mineralization system, so this new hole targeted an extensional opportunity within the target area. Hole DUP24-022, as an initial hole successfully returned a significant assay intercept that correlated with the interpreted extension of the targeted main mineralized shear zone, with 2.47 g/t Au over 7.13 m from 598.45 m to 605.58 m. Mineralization within this interval is hosted within a strongly sheared and silica-altered basalt, with quartz carbonate veining representing up to 10% of the core and up to 10% disseminated pyrite mineralization locally. The mafic volcanic unit intercepted in DUP24-022 will be further refined in the upcoming geological model updates. As a successful step-out along strike within this initial vectoring hole, First Mining realizes an important opportunity for additional step-outs that could have a significant potential for resource growth. A series of drill holes are currently in the planning stage to further test the open mineralization along strike and down-plunge during the Phase 3 program.

Drill hole DUP23-023 (Figure 3) was drilled as a down-plunge, extensional follow-up opportunity to the significant intervals returned from DUP24-019 (3.07g/t Au over 10.32 m from 87.94 m to 98.26 m, including 9.19 g/t Au over 0.85 m from 87.94 m to 98.26 m, and 3.19 g/t Au over 4.53 m from 102.30 to 106.83 m, as reported on May 21, 2024). These holes targeted higher-grade zones along the main mineralized shear zone at the northern contact of the syenite body, with DUP24-023 further validating the continuation of the higher-grade mineralization at depth. Highlights from the main mineralized shear zone in DUP24-023 include 2.38 g/t Au over 18.45 m (including 5.58 g/t Au over 4.1 m) from 131 m to 149.45 m, and 4.43 g/t Au over 2.78 m from 170.82 m to 173.6 m. These significant intercepts are hosted within a zone of strongly foliated basalt and syenite that is associated with strong silica and sericite alteration, quartz carbonate veining including up to 10% in localized areas, and up to 10% disseminated pyrite. First Mining is pleased with the successful down-plunge validation of the higher-grade zones as it continues to support follow-up programs targeting the depth extension of these zones.

An important highlight of the Phase 2B winter program was drill hole DUP23-024 (Figure 5), which was targeting multiple zones and included stepping out to the east of DUP24-018 and drill testing the extension of an interpreted shear-hosted zone within the syenite, as well as testing the continuity of the shear and higher-grade mineralization zone at the contact zones of the syenite and mafic volcanic units.

Drill hole DUP24-024 returned multiple intercepts of significant gold values, with the highlights from the main mineralized shear zone being 10.67 g/t Au over 5.3 m from 448.4 m to 453.7 m, hosted within a 5.3 m wide brecciated quartz-carbonate vein with up to 5% pyrite mineralization that is emplaced along a syenite-basalt contact (Figure 5). A second zone of significant mineralization was intercepted within a strongly sheared and brecciated rhyolite unit with up to 3% disseminated pyrite, which returned 6.63 g/t Au over 9.0 m from 476.0 m to 485.0 m. A third zone, and the second syenite-basalt contact unit within this hole, was intercepted which returned 3.04 g/t Au over 33.5 m from 488.5 m to 522.0 m (including 4.42 g/t Au over 4.0 m and 14.78 g/t Au over 4.0 m), and for this zone strongly brecciated, silica-altered syenite and basalt units with up to 10% localized area of quartz veining and up to 15% disseminated pyrite mineralization were intercepted (Figure 5). The fourth significant interval in this hole was hosted within a localized sheared and brecciated silica-altered basalt unit, with up to 10% quartz vein flooding and up to 3% disseminated pyrite mineralization, and this zone returned 5.97 g/t Au over 33.0 m from 534.0 m to 567.0 m (including 9.63 g/t Au over 4.2 m, and 14.43 g/t Au over 6.0 m). A favourable setting is recognized with the newly identified mineralized basalt units at this locality (Figure 6), and further refinement of the geological model, followed up by extensional drill testing will be a priority in the upcoming Phase 3 program.

The North Zone target has returned significant upside and value to the Duparquet Project and is a priority area for exploration optimization and potential extension of the current open pit and underground resource. The recent drill results continue to support the area as a highly prospective target zone for the Project, with potential to unlock meaningful upside along strike and at depth (Figure 7).

"Our geoscience teams have created exceptional momentum and continue to deliver strong results with additional drilling", stated James Maxwell, Vice President of Exploration and Project Operations. "Recognition of a new higher-grade host lithology within the latest result setting greatly advances our ability to target this higher-grade trend and supports an opportunity for further characterization and discovery."

#### Duparquet 2024 Exploration Programs

Exploration activities will be advancing at the Duparquet project through 2024 with continued focus on drilling, regional field work programs that commenced early this spring, and integrating the data from recently acquired airborne geophysical magnetic and LiDAR surveys. A property-wide expanded 3D geological and target model is also in development and the ongoing integration and leveraging of layered datasets supports the targeting based on an integrated geoscience exploration strategy.

#### Table 2: Final Phase 2B Winter Program Drill Results

Hole ID	From (m)	To (m)	Length (m)	Grade (Au g/t)
DUP24-022	598.45	605.58	7.13	2.47
DUP24-022	637.00	638.00	1.00	0.42
DUP24-023	16.00	18.00	2.00	0.58
DUP24-023	35.52	36.45	0.93	0.62
DUP24-023	48.83	49.60	0.77	1.54
DUP24-023	80.00	81.00	1.00	0.44
DUP24-023	87.33	87.88	0.55	0.99
DUP24-023	96.00	97.00	1.00	0.42
DUP24-023	101.41	105.00	3.59	0.68
DUP24-023	131.00	149.45	18.45	2.38
DUP24-023 incl.	135.10	139.20	4.10	5.58
DUP24-023	170.82	173.60	2.78	4.43
DUP24-023 incl.	171.60	172.30	0.70	9.80
DUP24-024	9.00	12.00	3.00	2.15
DUP24-024 incl.	10.00	11.00	1.00	4.25
DUP24-024	15.00	15.97	0.97	0.44
DUP24-024	19.00	20.00	1.00	0.42
DUP24-024	40.40	52.55	12.15	0.95
DUP24-024	73.00	74.00	1.00	0.76
DUP24-024	106.20	113.23	7.03	1.61
DUP24-024	122.21	123.29	1.08	1.07
DUP24-024	126.83	127.65	0.82	0.99
DUP24-024	136.13	137.00	0.87	1.84
DUP24-024	161.65	163.48	1.83	1.03
DUP24-024	171.00	173.00	2.00	0.88
DUP24-024	182.00	183.00	1.00	0.49
DUP24-024	191.09	192.04	0.95	0.43
DUP24-024	196.00	197.00	1.00	0.71
DUP24-024	210.20	210.90	0.70	0.51
DUP24-024	230.00	231.00	1.00	0.66
DUP24-024				

245.00

246.00

1.00







DUP24-024	266.70	267.45	0.75	1.08
DUP24-024	346.00	348.00	2.00	0.47
DUP24-024	351.00	356.00	5.00	0.92
DUP24-024	362.00	365.25	3.25	2.11
DUP24-024 incl.	364.50	365.25	0.75	6.05
DUP24-024	431.10	431.60	0.50	0.48
DUP24-024	437.00	437.50	0.50	0.47
DUP24-024	438.80	440.50	1.70	0.68
DUP24-024	448.40	453.70	5.30	10.67
DUP24-024	455.00	455.60	0.60	0.67
DUP24-024	458.00	460.00	2.00	1.30
DUP24-024	464.00	470.00	6.00	1.05
DUP24-024	476.00	485.00	9.00	6.63
DUP24-024	488.50	522.00	33.50	3.04
DUP24-024 incl.	503.00	507.00	4.00	4.42
DUP24-024 and incl.	518.00	522.00	4.00	14.78
DUP24-024	527.00	528.00	1.00	4.04
DUP24-024	534.00	567.00	33.00	5.97
DUP24-024 incl	534.70	538.90	4.20	9.63
DUP24-024 and incl.	547.00	553.00	6.00	14.43
DUP24-024	570.00	570.50	0.50	0.48
DUP24-024	582.70	584.20	1.50	1.34
DUP24-024	587.20	590.00	2.80	0.42
*Reported intervals are drilled core lengths (true widths are estimated at 15-45% of the core length interval; assay values are uncertain)				
DUP24-024	590.00	601.00	11.00	1.73

Table 3: Final Phase 2B Winter Drill Hole Locations, Duparquet Gold Project

Hole ID	Azimuth (°)	Dip (°)	Length (m)	Easting	Northing
DUP24-022	160	-65	642.0	632280	5374770
DUP24-023	15	-60	264.0	631538	5374500
DUP24-024	358	-66	621.3	632071	5374355

Note: Collar coordinates in UTM NAD 83 z17  
About the Duparquet Gold Project

The Duparquet Project is geologically situated in the southern part of the Abitibi Greenstone Belt and is geographically located approximately 50 km north of the city of Rouyn-Noranda. The Project benefits from easy access and proximity to an existing workforce and infrastructure, including road, rail and hydroelectric

grid power. The Duparquet Project currently hosts an NI 43-101 compliant gold resource of 3.44 million ounces in the Measured & Indicated category grading 1.55 g/t Au, and an additional 2.64 million ounces in the Inferred category, grading 1.62 g/t Au. First Mining completed a Preliminary Economic Assessment<sup>1</sup> ("PEA") on the Project in 2023 (see news release dated September 7, 2023 and October 23, 2023).

The Duparquet Project totals approximately 5,800 hectares focused along an area of 19 km of strike length along the prolific Destor-Porcupine Fault Zone, along with numerous mineralized splays and influential secondary lineaments. The Duparquet Project includes the past-producing Beattie, Donchester and Duquesne mines as well as the Central Duparquet, Dumico and Pitt Gold deposits.

<sup>1</sup> Further details on the Duparquet PEA can be found in the technical report entitled "NI 43-101 Technical Report: Preliminary Economic Assessment, Duparquet Gold Project, Quebec, Canada" dated October 20, 2023, which was prepared for First Mining by G Mining Services Inc. in accordance with NI 43-101 and is available under First Mining's SEDAR profile at [www.sedarplus.ca](http://www.sedarplus.ca)  
Analytical Laboratory and QA/QC Procedures

All sampling completed by First Mining within its exploration programs is subject to a Company standard of internal quality control and quality assurance (QA/QC) programs which include the insertion of certified reference materials, blank materials and a level of duplicate analysis. Core samples from the 2023 drilling program at Duparquet were sent to AGAT Laboratories, with sample preparation in Val d'Or and analysis in Thunder Bay, where they were processed for gold analysis by 50 gram fire assay with an atomic absorption finish. Samples from selected holes were sent to AGAT Laboratories in Calgary, Alberta, for multi-element analysis (including silver) by inductively coupled plasma (ICP) method with a four acid digest. AGAT Laboratories systems conform to requirements of ISO/IEC Standard 17025 guidelines and meets assay requirements outlined for NI 43-101.

#### Qualified Person

Louis Martin, P.Geo., Senior Geologic Consultant of First Mining, is a "Qualified Person" for the purposes of NI 43-101 Standards of Disclosure for Mineral Projects, and has reviewed and approved the scientific and technical disclosure contained in this news release.

#### About [First Mining Gold Corp.](#)

First Mining is a gold developer advancing two of the largest gold projects in Canada, the Springpole Gold Project in northwestern Ontario, where we have commenced a Feasibility Study and permitting activities are on-going with a draft Environmental Impact Statement ("EIS") for the project published in June 2022, and the Duparquet Project in Quebec, a PEA-stage development project located on the Destor-Porcupine Fault Zone in the prolific Abitibi region. First Mining also owns the Cameron Gold Project in Ontario and a portfolio of gold project interests including the Pickle Crow Gold Project (being advanced in partnership with Firefly Metals Ltd.) and the Hope Brook Gold Project (being advanced in partnership with Big Ridge Gold Corp.).

First Mining was established in 2015 by Mr. Keith Neumeyer, founding President and CEO of [First Majestic Silver Corp.](#)

ON BEHALF OF [First Mining Gold Corp.](#)

Daniel W. Wilton  
Chief Executive Officer and Director

#### Cautionary Note Regarding Forward-Looking Statements

This news release includes certain "forward-looking information" and "forward-looking statements" (collectively "forward-looking statements") within the meaning of applicable Canadian and United States securities legislation including the United States Private Securities Litigation Reform Act of 1995. These forward-looking statements are made as of the date of this news release. Forward-looking statements are frequently, but not always, identified by words such as "expects", "anticipates", "believes", "plans", "projects", "intends", "estimates", "envisages", "potential", "possible", "strategy", "goals", "opportunities", "objectives", or variations thereof or stating that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved, or the negative of any of these terms and similar expressions.

Forward-looking statements in this news release relate to future events or future performance and reflect

current estimates, predictions, expectations or beliefs regarding future events. All forward-looking statements are based on First Mining's or its consultants' current beliefs as well as various assumptions made by them and information currently available to them. There can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. Forward-looking statements reflect the beliefs, opinions and projections on the date the statements are made and are based upon a number of assumptions and estimates that, while considered reasonable by the respective parties, are inherently subject to significant business, economic, competitive, political and social uncertainties and contingencies. Such factors include, without limitation the Company's business, operations and financial condition potentially being materially adversely affected by the outbreak of epidemics, pandemics or other health crises, such as COVID-19, and by reactions by government and private actors to such outbreaks; risks to employee health and safety as a result of the outbreak of epidemics, pandemics or other health crises, such as COVID-19, that may result in a slowdown or temporary suspension of operations at some or all of the Company's mineral properties as well as its head office; fluctuations in the spot and forward price of gold, silver, base metals or certain other commodities; fluctuations in the currency markets (such as the Canadian dollar versus the U.S. dollar); changes in national and local government, legislation, taxation, controls, regulations and political or economic developments; risks and hazards associated with the business of mineral exploration, development and mining (including environmental hazards, industrial accidents, unusual or unexpected formations, pressures, cave-ins and flooding); the presence of laws and regulations that may impose restrictions on mining; employee relations; relationships with and claims by local communities, indigenous populations and other stakeholders; availability and increasing costs associated with mining inputs and labour; the speculative nature of mineral exploration and development; title to properties.; and the additional risks described in the Company's Annual Information Form for the year ended December 31, 2023 filed with the Canadian securities regulatory authorities under the Company's SEDAR profile at [www.sedar.com](http://www.sedar.com), and in the Company's Annual Report on Form 40-F filed with the SEC on EDGAR.

First Mining cautions that the foregoing list of factors that may affect future results is not exhaustive. When relying on our forward-looking statements to make decisions with respect to First Mining, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. First Mining does not undertake to update any forward-looking statement, whether written or oral, that may be made from time to time by the Company or on our behalf, except as required by law.

#### Cautionary Note to United States Investors

The Company is a "foreign private issuer" as defined in Rule 3b-4 under the United States Securities Exchange Act of 1934, as amended, and is eligible to rely upon the Canada-U.S. Multi-Jurisdictional Disclosure System, and is therefore permitted to prepare the technical information contained herein in accordance with the requirements of the securities laws in effect in Canada, which differ from the requirements of the securities laws currently in effect in the United States. Accordingly, information concerning mineral deposits set forth herein may not be comparable with information made public by companies that report in accordance with U.S. standards.

Technical disclosure contained in this news release has not been prepared in accordance with the requirements of United States securities laws and uses terms that comply with reporting standards in **Canada** with certain estimates prepared in accordance with NI 43-101.

For further information, please contact: Toll Free: 1 844 306 8827 | Email: [info@firstmininggolds.com](mailto:info@firstmininggolds.com); Paul Morris | Director, Investor Relations | Email: [paul@firstmininggolds.com](mailto:paul@firstmininggolds.com)  
NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning the issuer's material mineral projects.

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