

# **Murchison Minerals is counting on Quebec's integrated critical minerals strategy**

written by InvestorNews | August 22, 2023

With the latest EV battery materials facility announcement by Ford Motor Company (NYSE: F) and South Korean companies EcoPro BM Co. and SK On Co., it would appear Quebec is pushing hard to be a global competitor in the EV supply chain. Granted it was probably a pretty easy decision for Ford and its partners given the Federal and Provincial governments are investing a combined C\$644 million of the estimated C\$1.2 billion cost of the project. However, that should likely give a leg up for any critical material miners in Quebec who suddenly find themselves on the doorstep of a burgeoning EV battery hub in Bécancour.

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## **Troy Boisjoli of Murchison Minerals on the Nickel, Copper, and Cobalt HPM Project in Quebec**

written by InvestorNews | August 22, 2023

In this InvestorIntel interview during PDAC 2023, Chris Thompson talks with Troy Boisjoli, CEO, President, and Director of [Murchison Minerals Ltd.](#) (TSXV: MUR | OTCQB: MURMF) about its HPM

project in Quebec that contains a nickel, copper, and cobalt mineralization.

Troy states that HPM is a magmatic sulfide project with nickel, copper, and cobalt, and a deposit model that is similar to what you would find at Voisey's Bay. He adds that the HPM project is located in the Manicouagan region of Quebec, an area with advanced infrastructure including a heavy rail line, hydroelectric facility, and road access.

He also discussed recent good drill results of 277 meters of 5.01% nickel equivalent ("NiEq") at the Syrah target and 120 meters of 1.36% NiEq at the Barre de Fer zone.

Finally, he mentioned that exploration plans for 2023 include drilling to expand the Barre de Fer zone and to "drive discovery" along a five-kilometer trend that already has nickel-bearing sulfide mineralization identified on the surface.

To access the full InvestorIntel interview, [click here](#).

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## About Murchison Minerals Ltd.

Murchison is a Canadian-based exploration Company focused on nickel-copper-cobalt exploration at the 100% – owned HPM Project in Quebec and the exploration and development of the 100% – owned Brabant Lake zinc-copper-silver project in north-central Saskatchewan. Murchison currently has 218.2 million shares issued and outstanding.

To learn more about Murchison Minerals Ltd., [click here](#).

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# Murchison Minerals is looking to make 2023 a banner year

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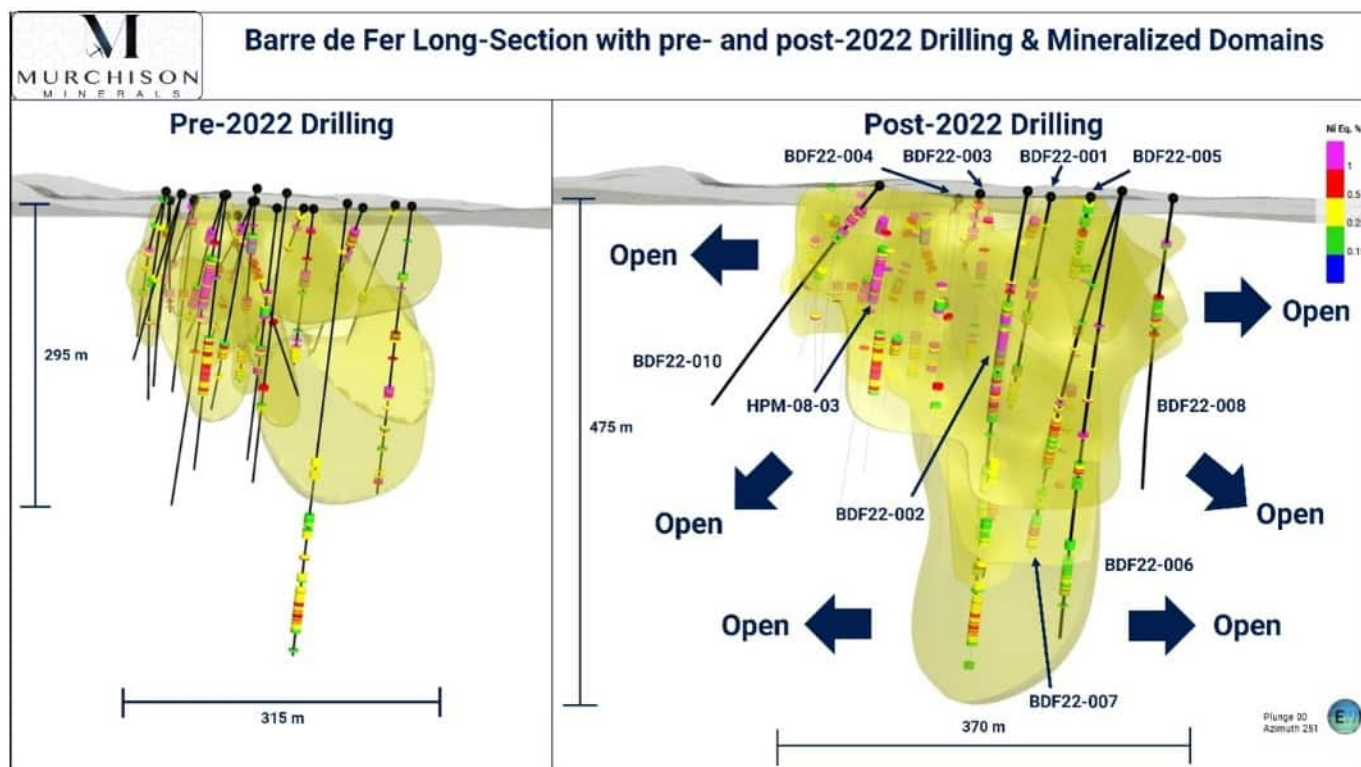
There seems to be news and updates almost daily about domestic critical minerals. Whether that be the establishment of EV battery manufacturing facilities, supply agreements for those facilities or processing of the critical raw materials that will feed the whole supply chain. That is a pretty bullish background for virtually all North American junior mining companies that are in hot pursuit of the many ingredients that go towards fulfilling what is likely every procurement team's nightmare at present. If Elon Musk, when he's not too fixated on his latest distraction, is busy signing up lithium and [nickel](#) supply contracts directly with mining companies, one could surmise that it's just a matter of time before everyone else joins the rush. And in fact, last September South Korean LG Energy Solution Inc. (LGES), a leading global manufacturer of lithium-ion batteries for electric vehicles, mobility, IT, and energy storage systems, [announced three agreements](#) in a span of 24 hours with Canadian miners to source materials required to make batteries for EVs.

This all seems like a pretty decent backdrop for anyone out there that is working to shore up a resource of critical minerals, especially if they are geographically close to where a lot of this infrastructure is being built. That's where a junior mining company like [Murchison Minerals Ltd.](#) (TSXV: MUR | OTCQB: MURMF), can play a significant role in supplying the minerals needed for the quickly evolving clean energy transition. Murchison is focused on the exploration and development of the

100% owned [HPM \(Haut-Plateau de la Manicouagan\) high-grade nickel-copper-cobalt Project](#) in Quebec and the exploration and development of the 100%-owned [Brabant-McKenzie VMS zinc-copper-silver deposit](#) located on the Brabant Lake property in north-central Saskatchewan. These are two of the best mining jurisdictions in Canada and arguably the world. Additionally, these projects are surrounded by excellent, established infrastructure.

On Monday (Jan 17), Murchison [updated investors](#) with assay results for the remaining eight diamond drill holes, from the Barre de Fer (BDF) Zone, drilled as part of the 2022 Summer Exploration Program on the HPM Project. These results successfully expanded mineralization down dip as well as along strike to the north and south of the BDF Zone. Results to date have successfully expanded the preliminary modelled mineralization, the current dimensions of the BDF Zone are:

- Mineralization at depth has now been extended down to 475 m, versus the preliminary model at 295 m
- Along strike, the zone of mineralization has been extended from 315 m to 370 m
- Mineralization was expanded along the width of the mineralized zone from 150 m to 200 m, with individual lenses now modelled up to 48 m in thickness, compared to the 28 m in the preliminary version



Source: Murchison Minerals Jan 17, 2023 [Press Release](#)

The 2022 Summer Exploration program achieved or surpassed expectations with respect to its three main objectives: expansion and delineation of the BDF Zone, discovery of new nickel-sulphide showings on surface via prospecting, and the identification of additional EM anomalies through property wide geophysics. Murchison expects to release the assay results from the remaining 3 drill holes completed at the Syrah target once results have been finalized and interpreted.

Murchison considers the HPM highly prospective to host additional nickel-copper-cobalt mineralization, particularly at BDF and Syrah where significant mineralization has already been encountered. The HPM project continues to show tremendous promise with its numerous gossanous nickel-copper-cobalt-bearing outcrops spatially linked to historical airborne electro-magnetic (EM) anomalies. The HPM property has developed into an exploration project with mining camp scale prospectivity.

At the end of September Murchison was sitting on approximately

C\$2.9 million in working capital, which should see the Company through its 2023 planning phase and perhaps even some additional drilling. Murchison is hoping to make 2023 a banner year for the Company. Work has commenced towards drafting an inaugural resource at BDF which is expected to be completed in early 2023. With a market cap of roughly C\$25 million and the pursuit of several of the more high-demand critical minerals, investors can hope they achieve their goal.

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## **Murchison Minerals' Troy Boisjoli on high-grade nickel sulfide mineralization results in Quebec**

written by InvestorNews | August 22, 2023

In this InvestorIntel interview, Tracy Weslosky interviews [Murchison Minerals Ltd.](#)'s (TSXV: MUR | OTCQB: MURMF) CEO, President, and Director Troy Boisjoli about their recent [assay results](#) confirming extensive high-grade nickel sulfide mineralization at the HPM Property. Demonstrating near-surface mineralization at the project, Troy discusses how the results were "one of the best nickel sulfide holes drilled over the last number of years in a pre-resource stage project globally."

Speaking on the competitive advantages of the HPM Project's location in Quebec, Troy explains how Murchison has only scratched the surface of the exploration potential at the project. With an ever-increasing demand for critical minerals

such as nickel, copper and cobalt, Troy provides an update on Murchison's significant pipeline of exploration targets on the HPM Project.

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# **Troy Boisjoli on the rising demand for battery grade nickel and Murchison Minerals**

# summer drilling results

written by InvestorNews | August 22, 2023

In this InvestorIntel interview, host Tracy Weslosky talks to [Murchison Minerals Ltd.](#)'s (TSXV: MUR | OTCQB: MURMF) President, CEO, and Director Troy Boisjoli about their [Summer Exploration Program](#) which continues to hit high grade Nickel-Copper-Cobalt mineralization at the HPM Project in Quebec. Troy highlights the supply deficit in the nickel market with the demand for battery grade Class 1 nickel expected to increase by 600% by 2040. Touching on how Class 1 nickel has been identified from Murchison nickel sulphide deposits, he discusses how the analysis was done using portable x-ray fluorescence (pXRF) technology at the Barre de Fer Zone on the 100% owned HPM (Haut-Plateau de la Manicouagan) Project, located in Quebec.

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# Troy Boisjoli of Murchison Minerals talks about drill results and expanding the Barre de Fer zone

written by InvestorNews | August 22, 2023

In this InvestorIntel interview, host Tracy Weslosky talks to [Murchison Minerals Ltd.](#)'s (TSXV: MUR | OTCQB: MURMF) President, CEO, and Director Troy Boisjoli about the recent portable [x-ray fluorescence \(pXRF\) results](#) from their second diamond drill hole at its Barre de Fer zone in its HPM (Haut-Plateau de la Manicouagan) Project in Quebec.

In the interview, which can also be viewed in full on the InvestorIntel YouTube channel ([click here to access InvestorChannel.com](#)), Troy tells Tracy that this second drill hole has returned its best results to date, with a pXRF estimate 121.2 metre interval of 1.39% Ni Eq (or 4.14% Cu Eq), including 21.0 metres at 3.43% Ni Eq (or 10.25% Cu Eq). "HPM is a nickel-copper-cobalt project, Troy says, "so it's a magmatic sulfide system where the sulfide mineralization contains nickel, copper and cobalt, all of which are critical minerals the world is desperate to find."

Troy goes on to say that "what we're seeing from this hole is not only the strength and the grade profile," but also that it extends "the strike length of that strength and mineralization." He goes on to say that he feels Murchison's HPM project "certainly has camp scale potential, but what we're focused on

right now is our Barre de Fer zone of mineralization.” With results pending from eight more drill holes, Troy says that this is part of a larger exploration program aimed at defining a mineral resource early next year.

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**Murchison Minerals explores  
camp scale potential for  
nickel and zinc at HPM and BMK**

# projects

written by | August 22, 2023

[Murchison Minerals Ltd.](#) (TSXV: MUR | OTCQB: MURMF) has recently [announced results](#) of its summer exploration program at its wholly owned HPM (Haut-Plateau de la Manicouagan) property. This included an aerial geophysical survey of the 648 km<sup>2</sup> (250 square miles), ground prospecting and diamond drilling with the plan to produce a maiden resource early 2023. The original discovery by Falconbridge of a Nickel-Copper-Cobalt mineralization dates to 1999.

What is interesting about the location is that it is only 8 kms (5 miles) to the rail line from Fermont/Labrador city and Port Cartier:



***Source: Company website***

As you can see it is also close to hydro-electric power which gives this opportunity two very important and strategic advantages over a lot of other potential mining opportunities in the Canadian north. It should also reduce CAPEX and OPEX as power will not have to be generated on site and material can be shipped in and out with relative ease. It is also 40 kms (25 miles) from the provincial Highway 389.

Two years ago, the Quebec government started the Quebec Action Plan on Critical Materials, which this deposit would fall under should the project move forward. The Quebec government is very supportive and proactive in the mining industry and the development of projects, particularly in the northern part of the province.

There are several targets of interest at HPM, the key one being

their Barre de Fer target which reported an intercept of 43.15 meters grading 1.74% Ni, 0.90% Cu and 0.09% Co. By comparison, Voisey's Bay on average was 1.63% nickel, 0.85% copper and 0.09% cobalt. On September 7th Murchison [reported](#) the pXRF results from a new 404 m drill hole that intersected four broad zones of Ni-Cu-Co sulphide bearing mineralization totalling 130.00 m of composite thickness, and returning 18.05 m estimated at 1.98% pXRF Ni Eq. (89.95 to 108.0 m) including 8.1 m at 3.45% pXRF Ni Eq., and 69.90 m estimated at 0.68% pXRF Ni Eq. (267.0 to 336.90 m) including 16.1 m at 1.4% pXRF Ni Eq. This ongoing exploration, the company says, is aimed at completing a maiden resource on Barre de Fer by early Q1 of 2023. The question is will they approach the 141 million tonnes of ore of Voisey's Bay, which made it a world class discovery.

The other project Murchison is working on is the 100% – owned Brabant McKenzie (BMK) zinc-copper-silver project in Northern Saskatchewan, located about 170km northeast of La Ronge. This is a VMS (volcanogenic massive sulphide) Zn-Cu-Pb-Ag-Au deposit which was originally prospected in the 1950s and 1960s. In September 2018 there was a [NI 43-101 upgraded report](#) with an indicated resource of 2.1 million tonnes at 9.98% zinc equivalent and an inferred resource of 7.6 million tonnes at 6.29% zinc equivalent. This was based on 138 drill holes with a cutoff of 3.5% zinc equivalent.

VMS deposits are widely distributed with major deposits in Canada being Kidd Creek, near Timmins, Ontario, and Bathurst in New Brunswick. The Kidd Creek mine, which has operated since 1966, is run by Glencore and is the deepest base metal mine in the world at 2,735 meters (8,973 feet) below sea level. The Bathurst mine suspended operations last month and the owner, Trevali, has delisted its shares from the TSX. The following table compares the Murchison deposit to Kidd Creek:



	Tonnes	Zinc %	Copper %	Silver g/t
Kidd Creek 2020	5 million	3.60%	1.80%	44.0
Murchison indicated	2.1 million	7.08%	0.69%	39.6
Murchison inferred	7.6 million	4.46%	0.57%	18.42

Murchison's Brabant Lake project has a maintained road – Saskatchewan Highway 102 – and existing power lines running through the property, which again points to management looking at projects with strong infrastructure. The drive from the local community of Brabant Lake to Saskatoon is about six hours. Last year's preliminary metallurgical work produced a 50% zinc concentrate with an 85% recovery.

Both projects are early stage but have promising potential and looking forward to additional results. Certainly worth keeping an eye on this company as more updates come out on these properties.

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## Troy Boisjoli of Murchison Minerals on drilling progress at its nickel-copper-cobalt HPM Project

written by InvestorNews | August 22, 2023

In this InvestorIntel interview [Murchison Minerals Ltd.](#)'s (TSXV:

MUR | OTCQB: MURMF) President, CEO, and Director Troy Boisjoli speaks with host Tracy Weslosky directly from the core shack at its nickel-copper-cobalt HPM Project in Quebec.

In the interview, which can also be viewed in full on the InvestorIntel YouTube channel ([click here to access InvestorChannel.com](https://www.investorintel.com)), Troy tells Tracy that the drills are turning at its battery metals site as part of a “multi-pronged exploration approach” that includes updated geophysics and field work across the property’s magmatic sulfide system. Drilling is now focused on the high-grade nickel, copper, cobalt zone called Barre de Fer. “It has a strike length of about 315 meters, a depth extent of about 295 meters, and a width of about 150 meters with individual lenses,” Troy explains, “and mineralization up to about 25 meters. The the intention of the drilling right now is to expand and and push forward at Barre de Fer and test the extent of this mineralizing system.”

Troy goes on to tell Tracy that Barre de Fer is “an area that has all of the the fundamental requirements from a technical geology perspective to have district or camp scale potential.” He goes on to say that “we also have very tangible, real results that we’re expanding on, and we’ll be able to expand on in the very near term,” and that one of the objectives of this drill program is getting into a position to have a maiden resource at Barre de Fer.”

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## **Murchison counting on critical materials close to home with 2 deposits and camp scale potential**

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Vladimir Putin's attack on Ukraine has reinforced the need for countries around the world to accelerate their efforts to reduce reliance on fossil fuels and cut greenhouse gas emissions, leading to clean energy technologies becoming one of the fastest growing segments of the economy. Some of the main inputs in these new technologies are critical metals like copper, cobalt, nickel and zinc. The World Bank forecasts that production of critical minerals and metals must increase by as much as 500% to produce the raw inputs necessary to meet projected demand. Analysts are expecting that over the next two decades nickel and cobalt will see a 20 fold increase in demand, with zinc and copper seeing an effective doubling in demand. That tells me

inflation isn't easing anytime soon but that can be a discussion for another day. In order for the world economy to meet this increasing demand in energy metals, discoveries of deposits will need to be made in the near term and as we watch sanctions mount against Russia, the location of those deposits becomes increasingly important.

Domestic supply and processing of these minerals and materials will become an increasingly crucial component to any nation looking to have a realistic ability to achieve emissions targets. That's why junior mining companies, such as [Murchison Minerals Ltd.](#) (TSXV: MUR | OTCQB: MURMF), play a significant role in the discovery of the minerals needed for the quickly evolving clean energy revolution. Murchison is focused on the exploration and development of the 100% owned [HPM \(Haut-Plateau de la Manicouagan\) project](#) in Quebec and the exploration and development of the 100%-owned [Brabant-McKenzie VMS zinc-copper-silver deposit](#) located on the Brabant Lake property in north-central Saskatchewan. The Company also has an option to earn 100% interest in the Barraute-Landrienne zinc-silver-gold project in Quebec. These are two of the best mining jurisdictions in Canada and arguably the world. Additionally, these projects are surrounded by excellent, established infrastructure.

The HPM property is located between Baie-Comeau and Fermont, Québec, about 20 km from an all-season road connecting the two communities, 8 km to railroad, and about 225 km to the deep water Port of Sept Iles. In December, 2021 the Company [acquired the majority land position](#) in the eastern Haut-Plateau region. With the newly acquired claims, Murchison has now increased the size of the HPM project area by a factor of 4, from 13,897 hectares to 57,586 hectares. First assay results from the [inaugural drill program at the PYC Target](#) include Hole PYC21-007 drilled to a depth of 158 m intersected three broad zones of Ni-

Cu-Co-bearing sulphide mineralization totaling 62.21 m of composite thickness including 25.5 m grading 0.30% Ni Eq and 27.4 m grading 0.23% Ni Eq while Hole PYC21-008 drilled to a depth of 182 m intersected five broad zones totaling 69.9 m of composite thickness including 39.5 m grading 0.24% Ni Eq and 13.0 m grading 0.27% Ni Eq. [Assay results for the remaining six holes](#), released two weeks ago, confirm the presence of broad zones of near surface low-grade nickel, copper, cobalt mineralization across the drilled portion of the target.

The PYC Target is only one of multiple Ni-Cu-Co prospects on the HPM Project where historical work and prospecting completed at Barre De Fer, located only 1.5 km away, resulted in the best historic results from HPM-08-03 of 43.15 m at 1.73% Ni, 0.90% Cu, and 0.09% Co. The Company also completed [prospecting at the Syrah Target](#), located just 350 metres from the Barre de Fer prospect, during the 2021 fall drill program. Syrah results confirm Ni-Cu-Co sulphide mineralized outcrops and sub-crops over approximately a 375-metre strike length, within the footprint of an approximately 600- metre-long conductive geophysical anomaly. Newly discovered mineralization to the northeast extending the surface strike length by approximately 200 metres and assaying as high as 0.69% Ni Equivalent. Syrah is considered a high-priority exploration target, making it a priority for drill testing during the summer 2022 program.

One can be excused for focusing solely on the HPM Project with so much going on and prospect after prospect showing potential. But we can't forget about the Brabant McKenzie deposit that already has an established resource of Inferred: 7.6 million tonnes @ 6.29% ZnEq and Indicated: 2.1 million tonnes @ 9.98% ZnEq. There are 10 highly prospective VMS targets, with VMS style mineralization already intersected at Main Lake and Betty target areas. But for now, the Company is focused on the HPM project with the recently completed [recompilation and modeling](#)

[of holes](#) drilled at the Barre de Fer zone indicating significant potential for expansion of high-grade nickel-copper-cobalt zones. A [VTEM survey covering all of HPM](#), commenced on April 21<sup>st</sup>, 2022 with Murchison moving forward with preparations for a summer drill program on the HPM property focusing on Barre de Fer and Syrah.

The completion of an [early warrant incentive program](#) has resulted in the addition of C\$1.3 million in cash to go with the C\$1.8 million the Company finished 2021 with. This capital will go a long way towards funding the 2022 summer program. With a market cap of only C\$18.8 million there is plenty of leverage for investors looking for exposure to zinc, nickel and copper in a stable, mining friendly part of the world.

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## Focused on the key green metals, Murchison Minerals has quadrupled the HPM claims in Quebec

written by InvestorNews | August 22, 2023

One effect, on the global green energy transformation, of the Russian invasion of Ukraine is that Western governments have finally woken up to the emphatic need to create local supply chains for critical materials such as those needed to support the green energy revolution. In the past few weeks, the USA has released a fact sheet titled [Securing a Made in America Supply Chain for Critical Minerals](#) and last week the Intercept reported

[Biden Administration Drafting Order to Invoke Defense Production Act for Green Energy Storage Technology.](#) In Canada, 2 weeks ago the Ontario government released their [Critical Minerals Strategy](#). Also in March the Australian government released their [2022 Critical Minerals Strategy](#).

All of the above means companies with promising critical materials projects in Western countries are set to be the winners in 2022 and beyond. Today's company has two key critical materials projects in Canada, with strong exploration potential for nickel, copper, cobalt, and zinc.

**The green energy revolution will lead to an enormous opportunity for miners of the green energy metals**



Source: [Murchison Minerals website](#)

[Murchison Minerals Ltd.](#)'s (TSXV: MUR | OTCQB: MURMF) (Murchison) two Canadian projects are:

- HPM (Haut-Plateau de la Manicouagan) Project – Nickel sulphide-copper-cobalt project (Quebec) (100% owned)
- BMK (Brabant-McKenzie) Deposit – Copper-zinc-precious metals project (Saskatchewan) (100% owned)

Both of the above are at the exploration stage with multiple strong targets for drilling.

### **HPM (Haut-Plateau de la Manicouagan) Project (100% owned)**

The HPM Project has a dominant land position of 576 km<sup>2</sup> with camp scale Ni-Cu-Co potential. It has rail access within 8 km of project area and is 225 km to Port of Sept Iles. Murchison has recently completed an [acquisition of an additional 43,689 hectares](#) of mineral claims.



The Project has upwards of 50 anomalous EM targets identified. The [best historical result](#) is at the Barre de Fer Deposit and is **43.18 m of 1.74% nickel, 0.90% copper and 0.09% cobalt**.

At the 1.95 km long PYC geophysical anomaly, mineralization has been outlined so far over a strike length of ~550 metres. Murchison's inaugural drill program was completed at the PYC target in December 2021 with assay results below and others expected soon. Murchison has already [reported](#): "Intersected sulphide mineralization in all holes completed in 2021 at the PYC target- portable Niton X-ray fluorescence (XRF) spectrometer analyses confirm the presence of nickel, copper and cobalt within the sulphide intervals." And, "sulphide mineralization in drill core from PYC is similar to that observed on surface where 2021 backpack drill core samples assayed up to 0.79% Ni, 0.14% Cu, and 0.15% Co." The recently [announced](#) assay results at PYC included:

- Hole PYC21-007 drilled to a depth of 158 m included **25.5 m grading 0.30% Ni Eq** (72.5 m to 98.0 m) and 27.41 m grading 0.23% Ni Eq (3.24 m to 30.65 m).
- Hole PYC21-008 drilled to a depth of 182 m included **39.5 m grading 0.24% Ni Eq** (5.5 m to 45.0 m) and 13.0 m grading 0.27% Ni Eq (From 75.0 m to 88.0 m).

*Note: Murchison still has assays pending from the remaining six holes at the PYC target, which tested 0.55 km of the 1.95 km strike length.*

At the Syrah target (just 350 m from the Barre de Fer Deposit), Murchison has recently [reported](#) some 2021 outcrop assay results with more to come soon. The results included a newly discovered mineralization to the northeast extending the surface strike length by approximately 200 metres and assaying as high as **0.69% Ni Equivalent** (0.42% Ni, 0.10% Cu, 0.08% Co). Murchison [stated](#): "Today's results confirm Ni-Cu-Co sulphide mineralized outcrops

and sub-crops over approximately a 375-metre strike length, within the footprint of an approximately 600-metre-long conductive geophysical anomaly at the Syrah Target.”

### **BMK (Brabant-McKenzie) Deposit (100% owned)**

The BMK Deposit is on a 627 km<sup>2</sup> land package which has year round road and power access. It has an [Indicated Resource of](#) 2.1 Mt @ 9.98% ZnEq and an Inferred Resource of 7.6 Mt @ 6.29% ZnEq. The Property has 10 highly prospective VMS targets with VMS style mineralization already intersected at Main Lake and Betty target areas.

In 2022 at BMK, Murchison intends to do a comprehensive desktop study on results to date, in order to systematically optimize future drill programs. Also, Murchison plans to do further testing along strike and down dip from current deposit extents as well as to continue exploration drilling at Main Lake and Betty.

### **Closing remarks**

With nickel, copper and cobalt prices surging higher in 2021 and 2022 it means any junior explorer who finds significant amounts of these key green energy metals can expect their stock price to surge higher. At the HPM Project, Murchison is still awaiting further drill assays and has a total of 50 anomalous EM targets to explore. Results so far are solid for nickel, copper, and cobalt and suggest there is significant mineralization to explore, so really it is still very early days.

At the BMK Deposit, there is already a zinc resource and exploration upside in 2022.

Both opportunities are in Canada which these days is a huge advantage.

Murchison Minerals trades on a market cap of only [~C\\$17 million](#), meaning any significant discovery can be company changing. Stay tuned for more assay results soon at HPM.