



### **NIOBAY METALS**



- Public company listed on the Toronto Venture Exchange (symbol "NBY"). Head office located in Montreal, QC.
- Engagement Team: Claude Dufresne (CEO), Jacquelin Gauthier (VP Geology), Harry Rickard (Senior Aboriginal Advisor), Derek Teevan (consultant)

#### Board of Directors:

- Serge Savard Chairman of the Board <u>Ex-NHL player (Montreal Canadian)</u>.
- Dawn Madahbee Leach Director GM <u>Wautebek Business Development Corp</u>.
- Claude Dufresne, P.Eng President & CEO 15 years in the <u>niobium</u> business.
- **Jean-Sébastien David,** Geo Director COO <u>Arianne Phosphate Inc.</u>
- Raymond Legault Director Retired <u>Financial</u> advisor.
- Jacques Bonneau, Geo Director Ex co-owner of Niobec mine.
- Focus on the James Bay Niobium Project acquired in June 2016.

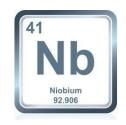


### WHAT IS NIOBIUM?



#### **NIOBIUM**





a metal added to steel to make it:













Niobium
Helps to reduce
emissions of
Greenhouse gases/
Carbon footprint\*



\* In the USA alone, Niobium contributes to a yearly reduction of  $\underline{62}$  megatons  $\underline{CO_2}$ , equivalent to half of Ontario  $\underline{CO_2}$  emissions per year.

# NíoBay NIOBIUM CONTRIBUTION TO ENVIRONMENT 6

Niobium helps to make lighter and safer vehicles & bridges, which contributes to reduce global carbon footprint





#### \$10 of Niobium in a mid-size vehicle





~150 kg lighter & 5% liters / km economy



#### 0.02% of Niobium in steel (bridge)



\$25M & 15,000 tons of steel savings



### Niobium - Innovation and Development

#### **Toshiba Electric Vehicle Battery**



Toshiba – New EV battery with possible range of **320 km** with a **6-minute** charge.

→ Anode made of a niobiumtitanium oxide (TNO), replacing graphite.



#### Niobium in jet turbine



Improve the efficiency & safety while reducing the Nx gas





#### NIOBIUM IS EVERYWHERE

# Niobium is consider as a GREEN metal due to its positive impact on the CO<sub>2</sub> reduction



Automotive (structure, body)



Bridges (beams, rods)



High-rise buildings



Wind Turbines



Aerospace (jet engine, rivets)



Stainless steel (Exhaust)



Tools



Medical (MR, implants)



Electronics (semiconductors)



Jewelry



#### JAMES BAY NIOBIUM PROJECT



#### THE PROJECT HISTORY

- Discovered in 1966 by
   Consolidated Morrison
   Explorations in a three party agreement that also included Argor Explorations & Goldray Mines;
- Explore in 1966 & 67 with 85 drill holes on the property;
- Major exploration work carried out in 1968 & 1969;
- Resource to sustained an operation for +20 years.













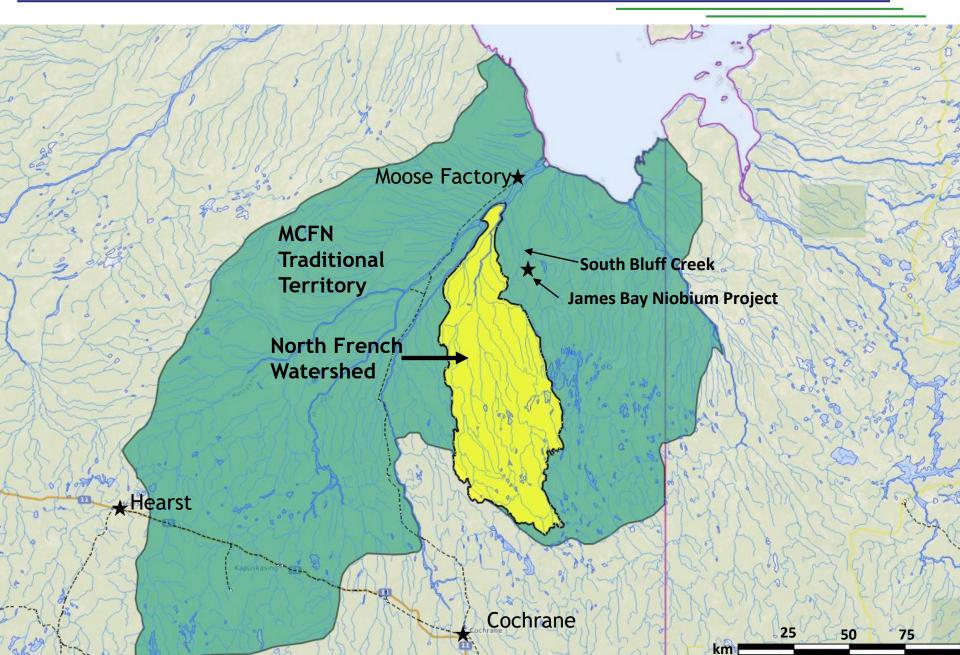




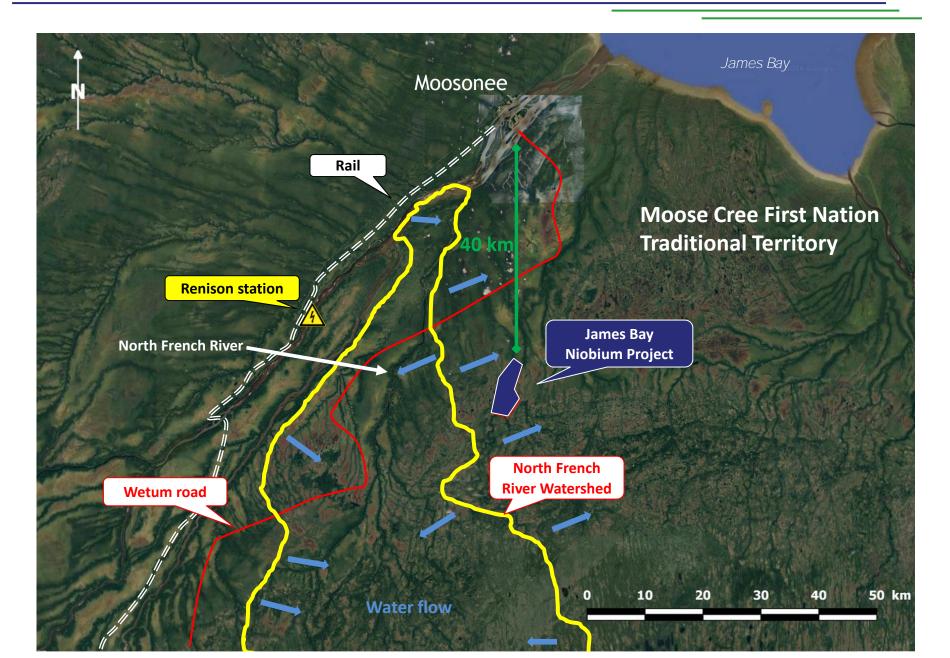
### **PROJECT LOCATION**



# MCFN TRADITIONAL TERRITORY & NORTH FRENCH WATERSHED

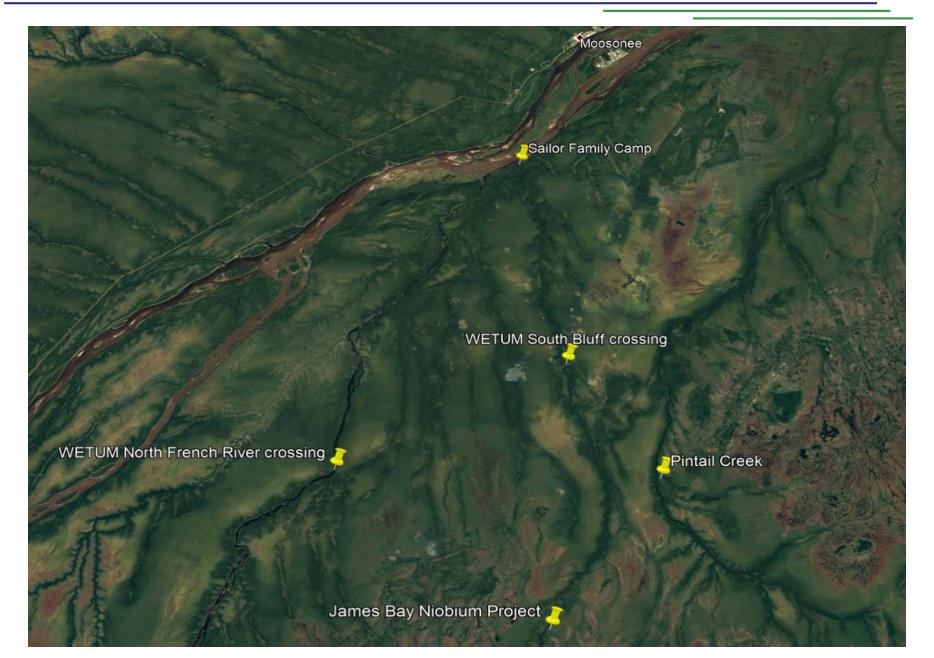








## **Aerial View James Bay Niobium**





### **DRILLING PROGRAM**



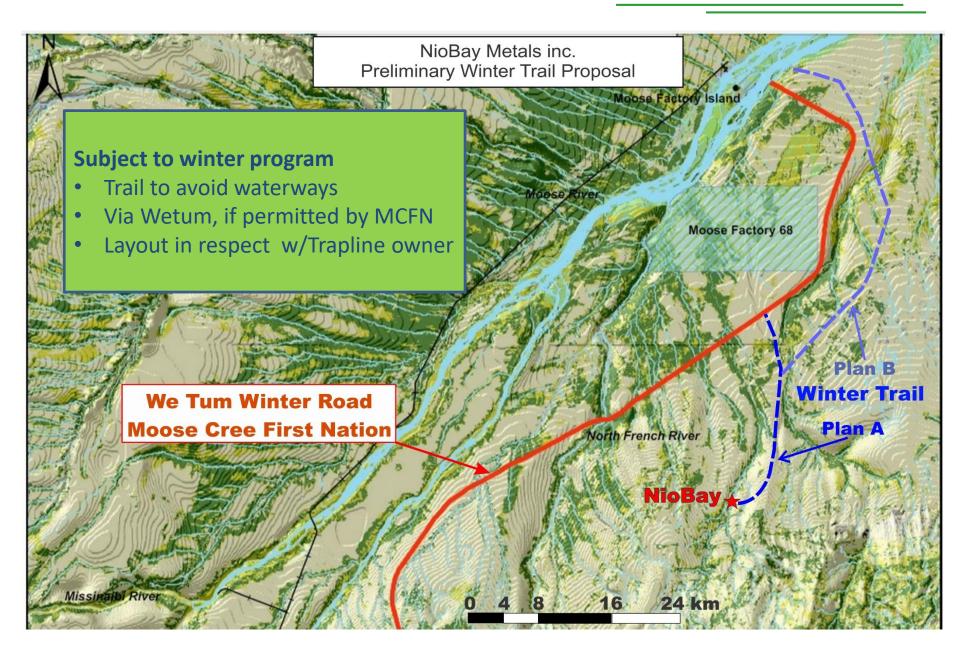
#### **SMALL DRILLING PROGRAM**

- Niobay will seek the support from MCFN for the small (only 8 holes) drilling program.
- In order to validate the historical data and test the high-grade extension, NioBay needs to conduct a small program.

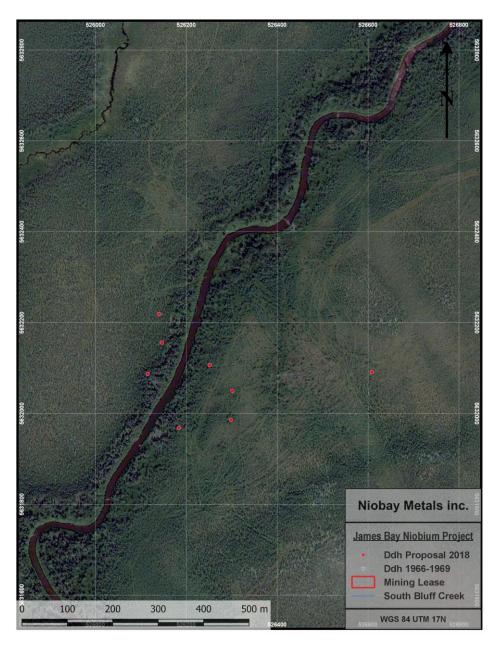
- Drilling contractor will have to;
  - High safety & environmental standard.
  - Experience working on first nations territory.
  - Willingness to hire community members.
- MCFN observation & monitoring of the drilling will be welcome, subject to health and safety requirement.





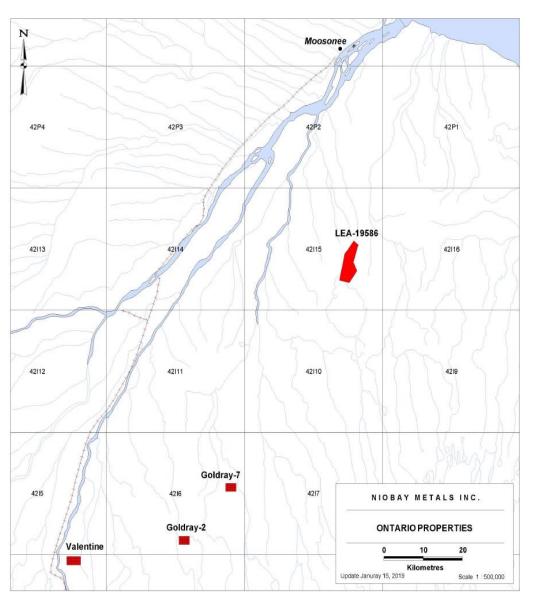






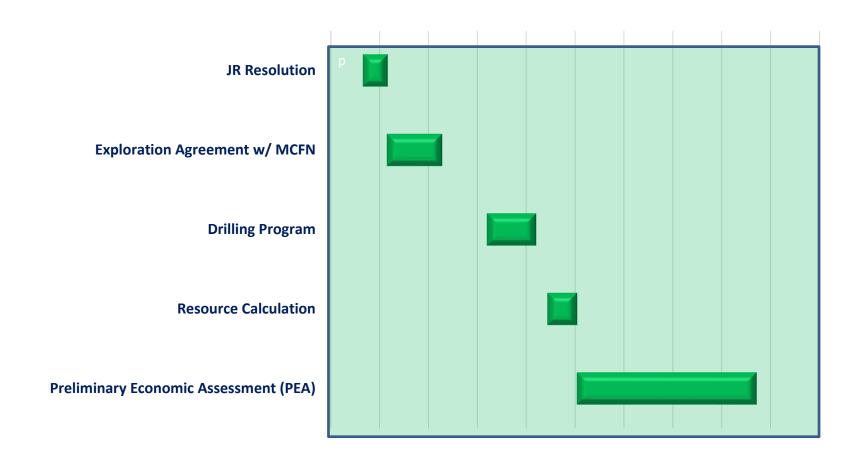
- Drill holes locations designed to validate historical results.
- Total of 8 holes.
  - 4 holes less than originally planned but deeper holes.
- Holes E1-2-3 located >50m from the creek.
  - Emilitate risk.
- Duration of the program estimated at 6 weeks.
- Drill cores will be used to continue metallurgical program.
- Best environmental practices will be used.





- Niobay staked 3 areas within the MCFN traditional territory (Valentine, Goldray-2 & 7).
- All areas were drilled by the companies who discovered James Bay Niobium.
- Valentine property has the higher potential. It is also located on TTN & Metis traditional territory.
- No works are planned on these properties for the time being.
- MCFN will be informed if the situation change.





If PEA is positive, engage with MCFN



developing one of the most critical metals

Tel: (514) 866-6500 www.niobaymetals.com

