MacDonald Mines Exploration Ltd.

SPJ Project

Building a District Scale Network of Gold Deposits

Sudbury, Ontario

TSX-V: BMK
OTC Pink: MCDMF

May 2021

- Expanding the known footprint of the historic Scadding Gold Mine
- Exploring known gold showings on the large property
- Connecting several centres of gold mineralization over km-long corridors

Safe Harbour Statement

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Qualified Person
Jean- François Montreuil, P Geo. is the qualified person responsible for preparing, supervising and approving the scientific and technical content of this Presentation.

Invest in MacDonald Mines

- Large 100% owned contiguous land position - 18,340 ha.
- High-grade gold intercepts drilled at legacy Scadding Mine:
  - **52 g/t Au over 12m** (SM-19-001)
  - **59 g/t Au over 19m** (SM-20-026)
- Recent discovery, 800 m south of Scadding Mine:
  - **5.71 g/t over 22.67 m** including **113 g/t gold over 0.96 m** in 2nd hole drilled in area
- Multiple known gold showings and past-producing gold mines on the property.
- System of connected gold deposits

Innovative Team

Leveraging new approach and techniques to discover a series of connected gold deposits in Canada's best mining jurisdiction

Mia Boiridy
M.Sc.

President and CEO

+24 years demonstrated success in organizational leadership. Degrees in geology and geochemistry.

Jean-François Montreuil
Ph.D., P.Geo

Chief Geologist

+10 years of experience defining complex hydrothermal systems related to gold deposits in Canada.

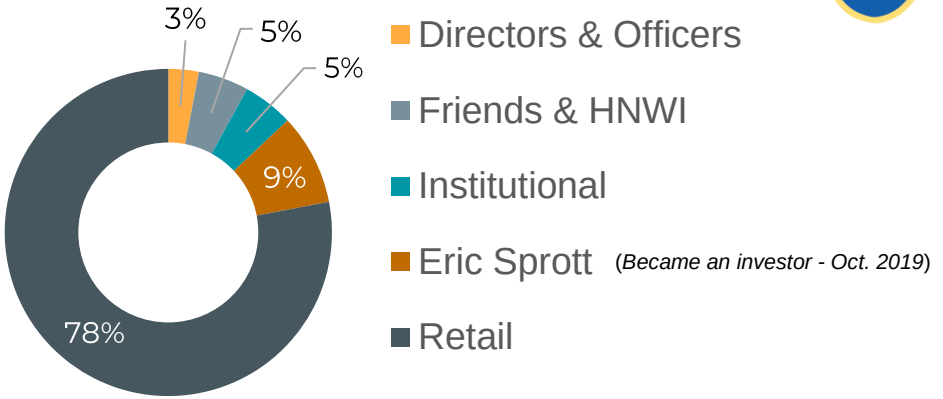
Fiona Fitzmaurice
ACCA, CPA, CGA

Chief Financial Officer

+12 years experience in private and publicly-listed companies; CFO at Pasofina Gold.

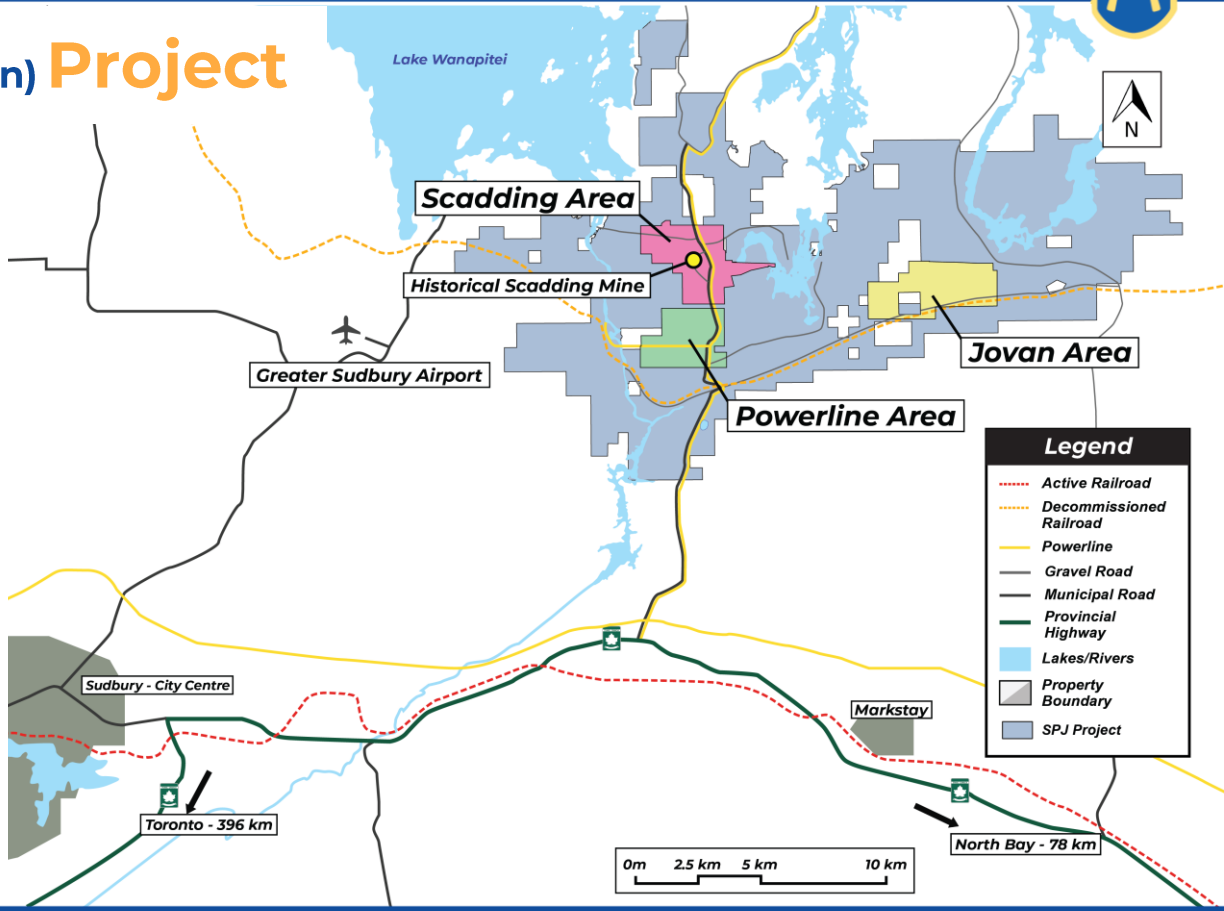
Capital Structure

Market Capitalization	C$13 M
Common Shares Outstanding	214.3 M
Warrants *(weighted av. $0.14)*	52.9 M
Options *(weighted av. $0.11)*	15.4 M
Fully Diluted Shares	282.6 M
Recent Share Price *(May 21 , 2021)*	C$0.06
52-Week High-Low	$0.145 - $0.05

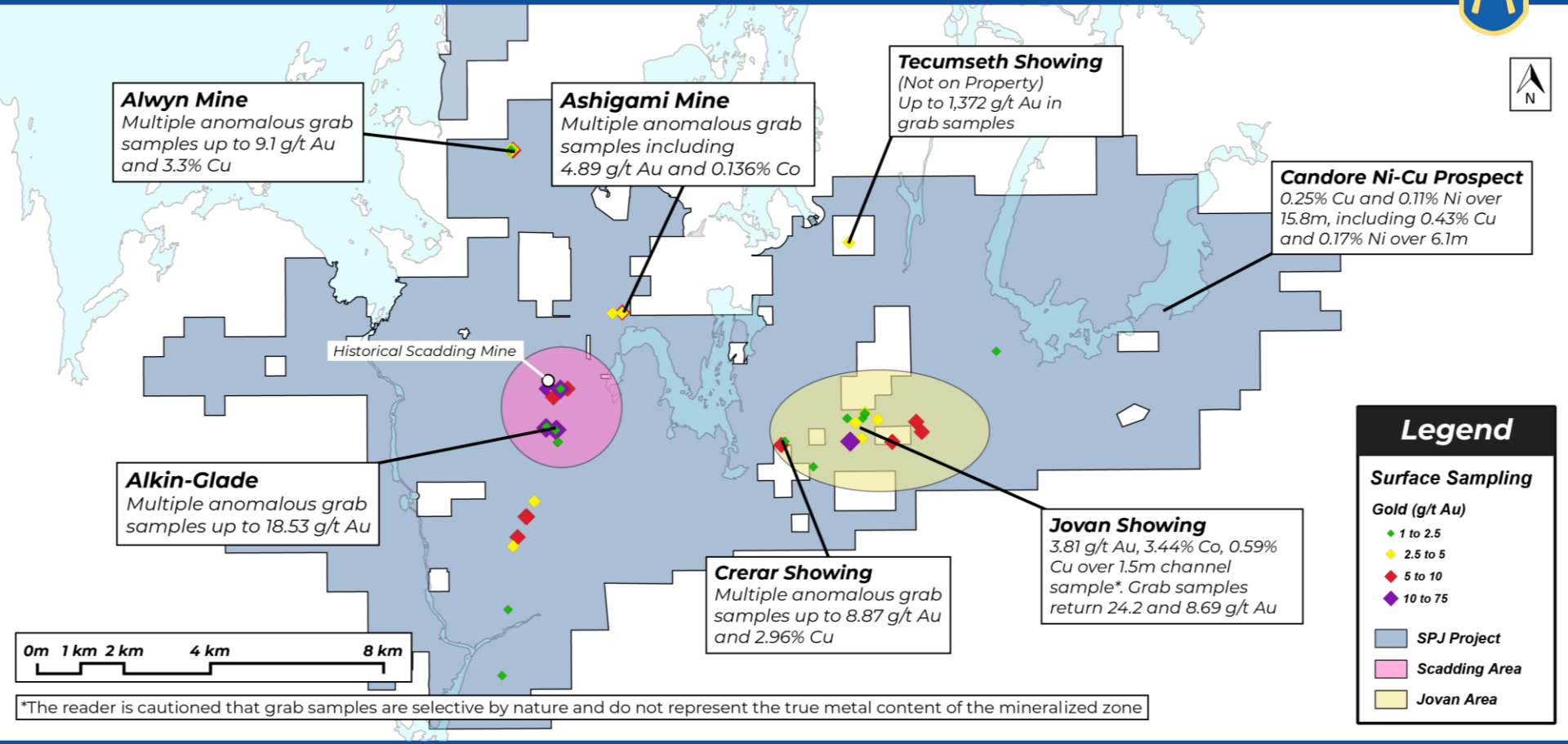


SPJ (Scadding-Powerline-Jovan) Project

- Large 100% owned 18,340 ha land package
- Established infrastructure:
  - 10 km off Trans-Canada Highway
  - Powerline on property
  - Railroad in proximity
  - Mills nearby
- Year-round exploration access
- +135 years mining history and skilled workforce in nearby Sudbury, On.



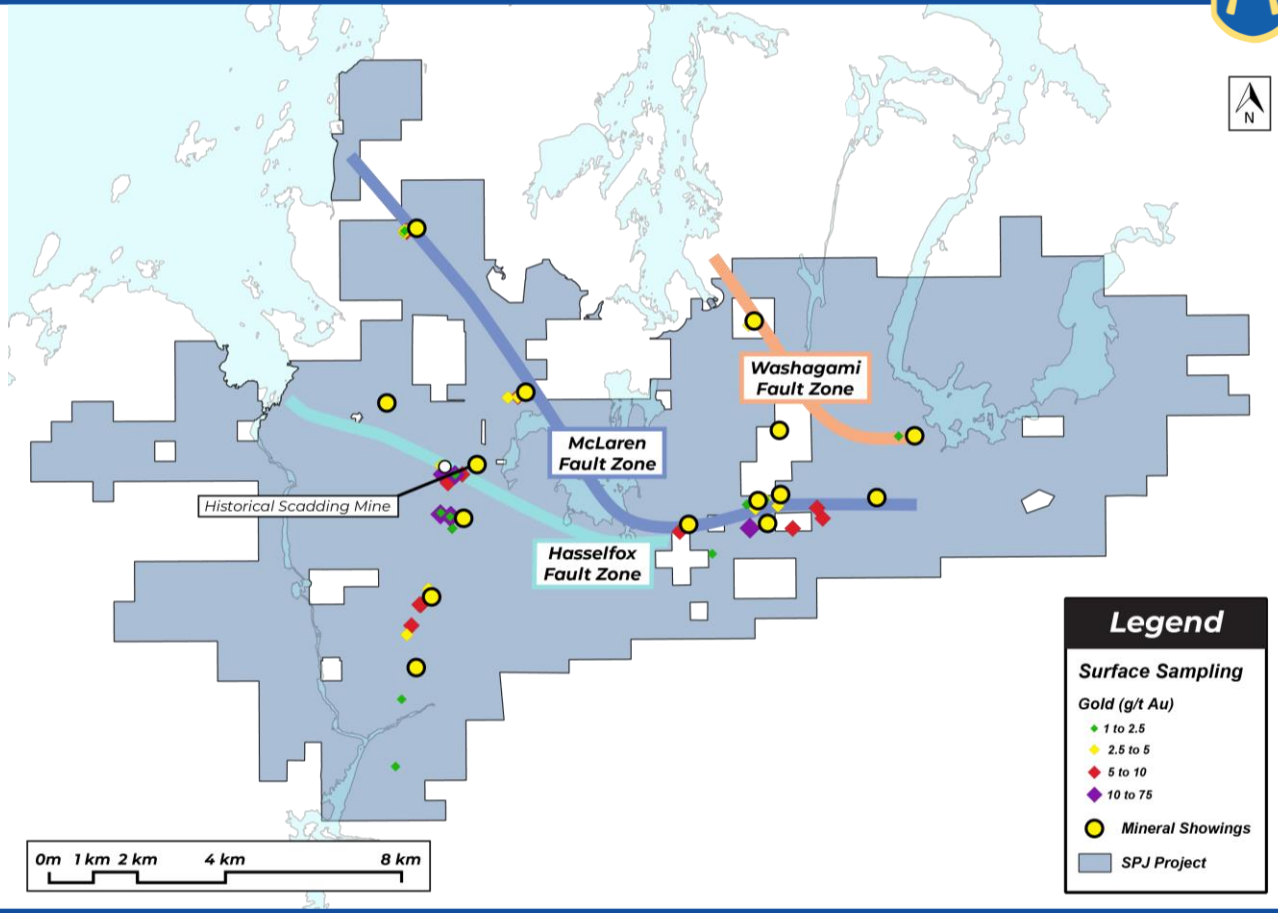
Multiple Gold Showings on Project



*The reader is cautioned that grab samples are selective by nature and do not represent the true metal content of the mineralized zone

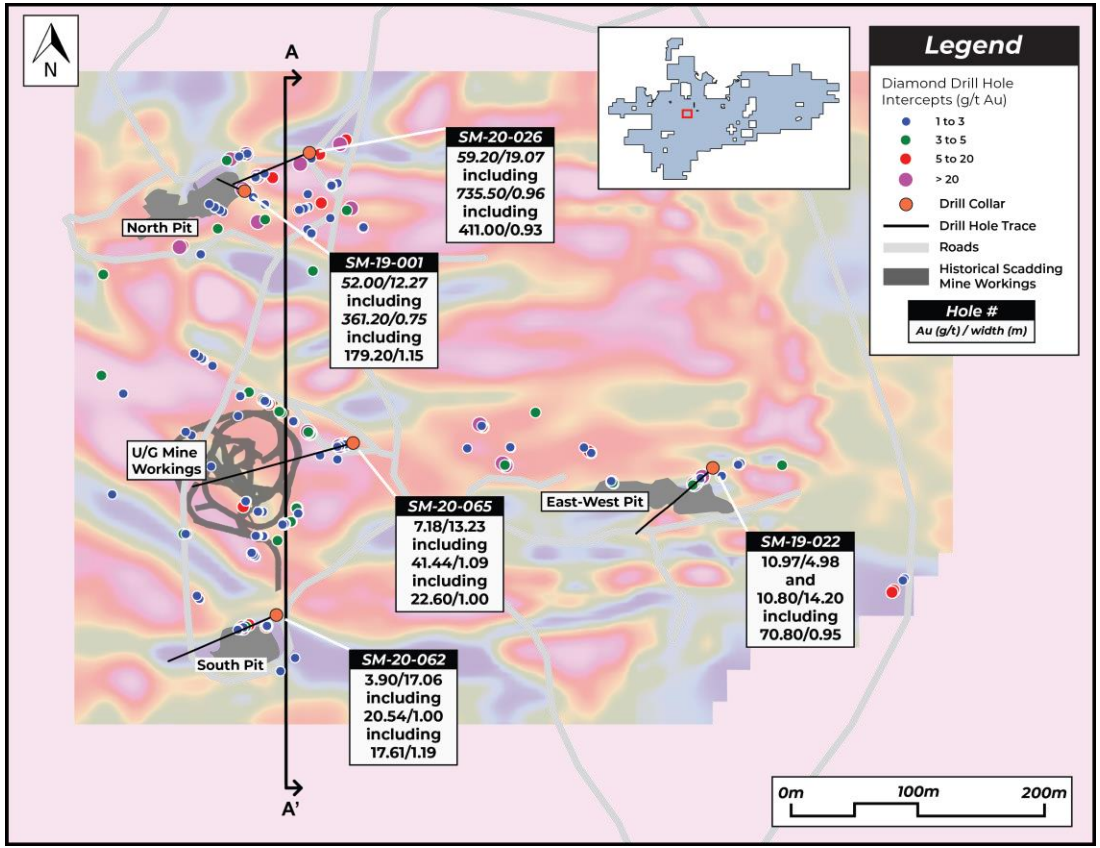
Large Gold System

- Regional distribution of gold showings along major faults
- Strong potential to discover other high-grade Au deposits
- Mineralization centers spaced kilometres apart
- On-going exploration program focused on filling in gaps



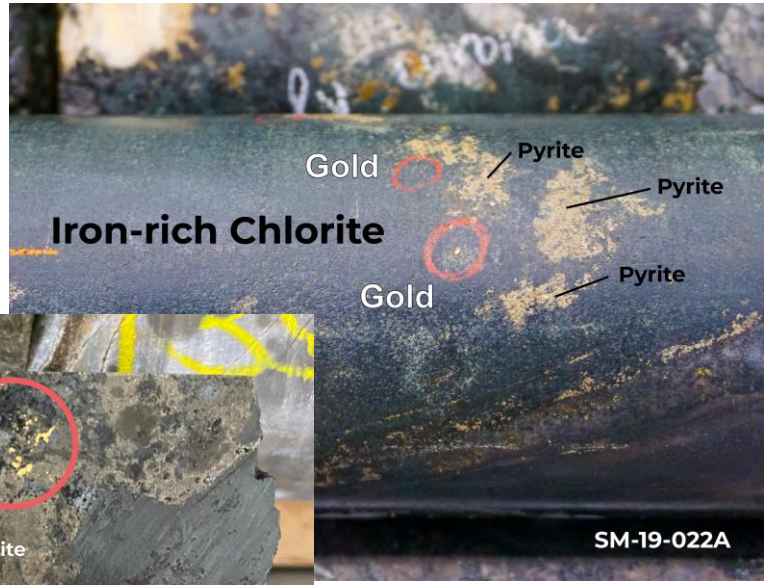
Past-Producing
Scadding Gold Mine

- Produced over 29,000 oz Au from ~140,000 tons of ore at a head grade of 7.2 g/t in the late 1980s.
- Folds control location and geometry of gold-bearing zones.
- BMK drilled 83 holes (>15,500 m) at Scadding in 2019/20
- Discovered mineralization beyond historical Scadding Mine footprint



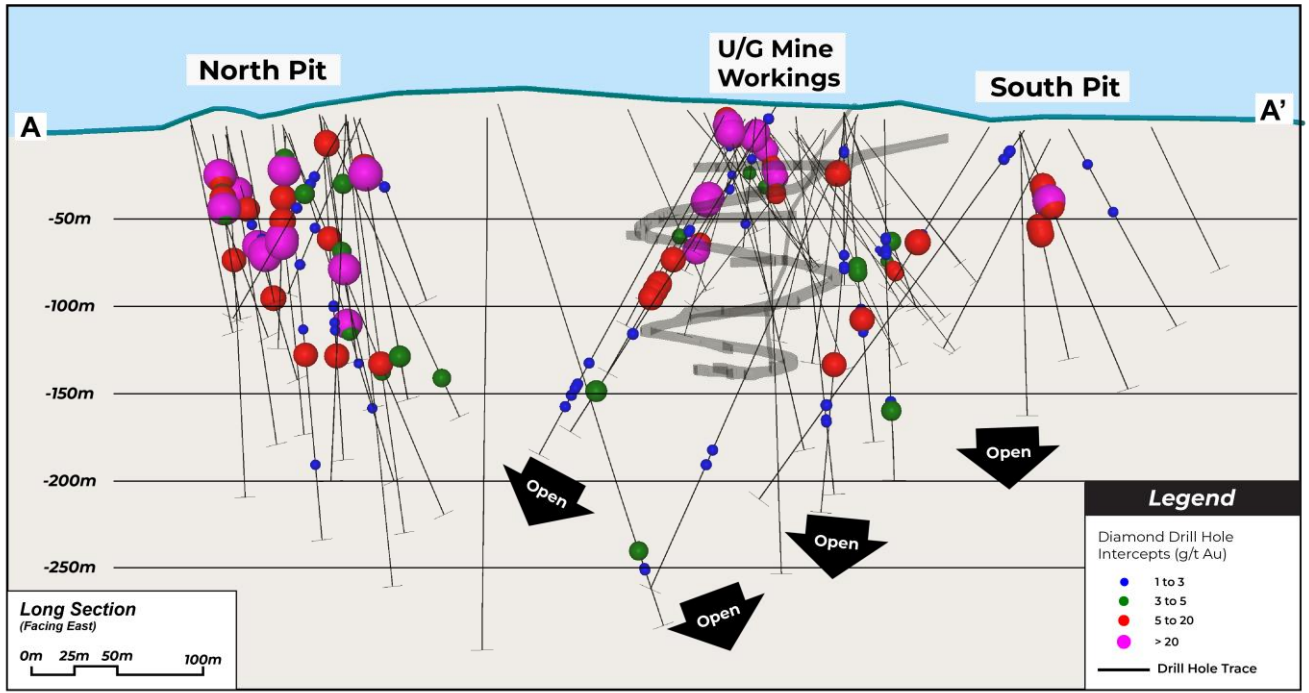
Scadding Mineralization

- Gold associated with iron-rich chlorite with variable sulphides - magnetite, pyrite, pyrrhotite and chalcopyrite
- Enrichments in silver, cobalt, copper, nickel, REE and uranium
- Structurally controlled

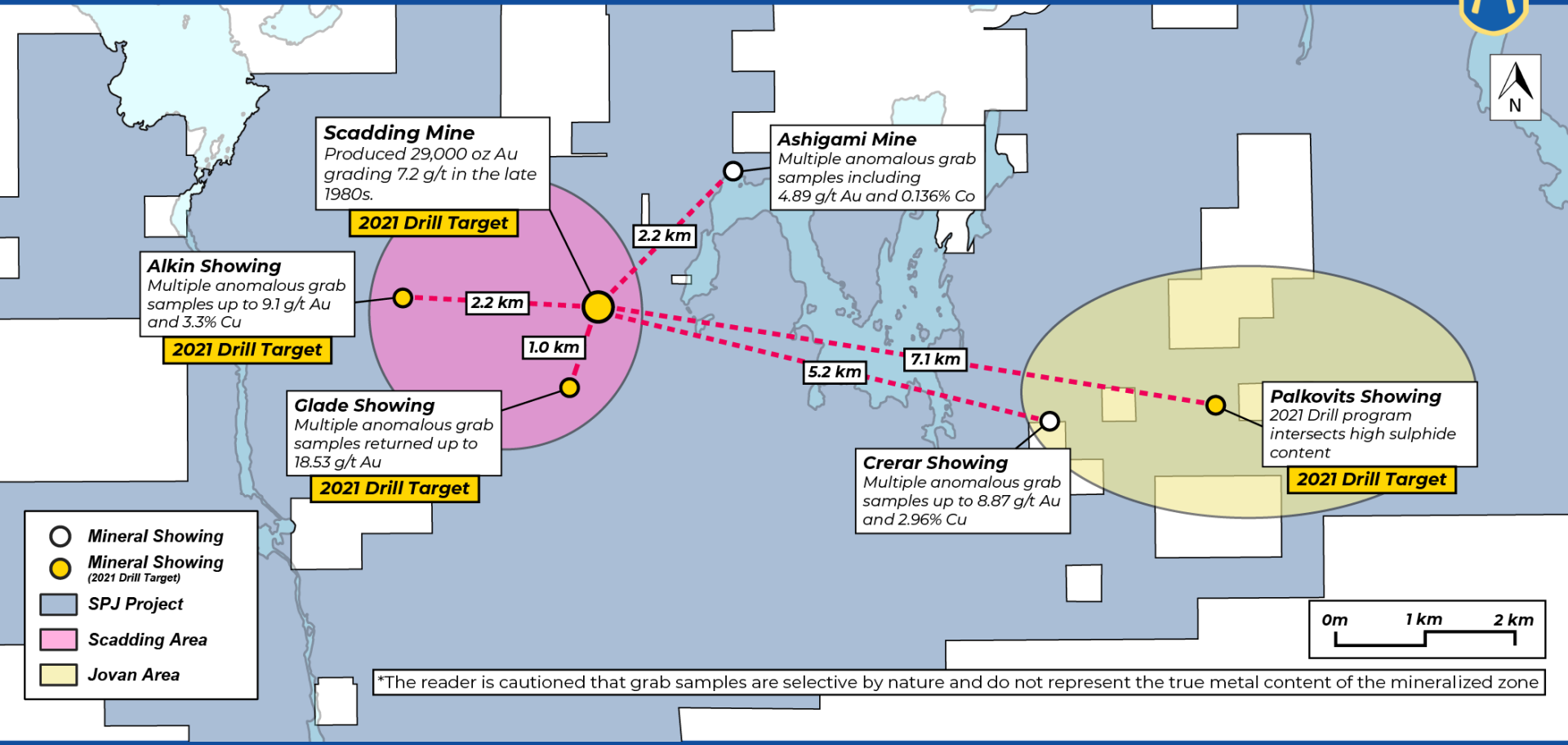


Expanding Scadding

- Drilling to date limited to ~200m depth.
- Mineralization appears open at depth.



Interconnected System of Gold Deposits



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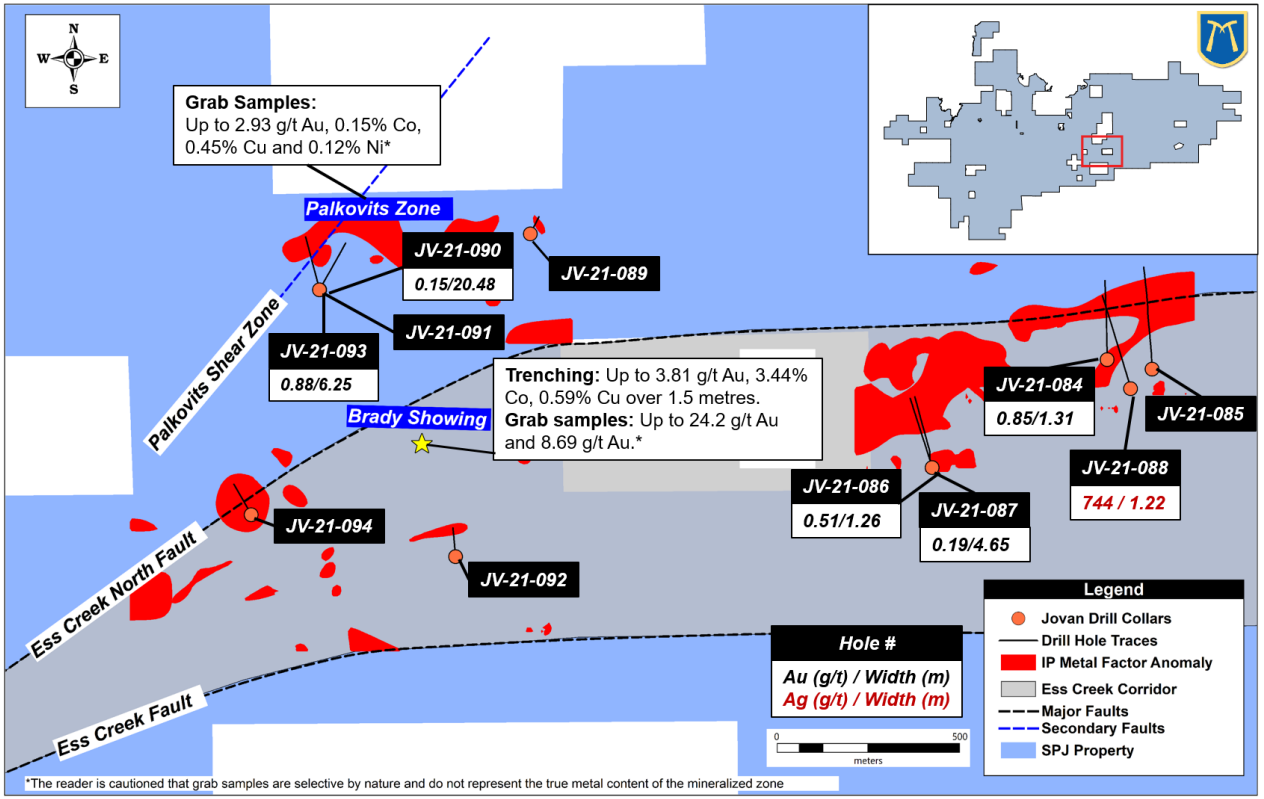
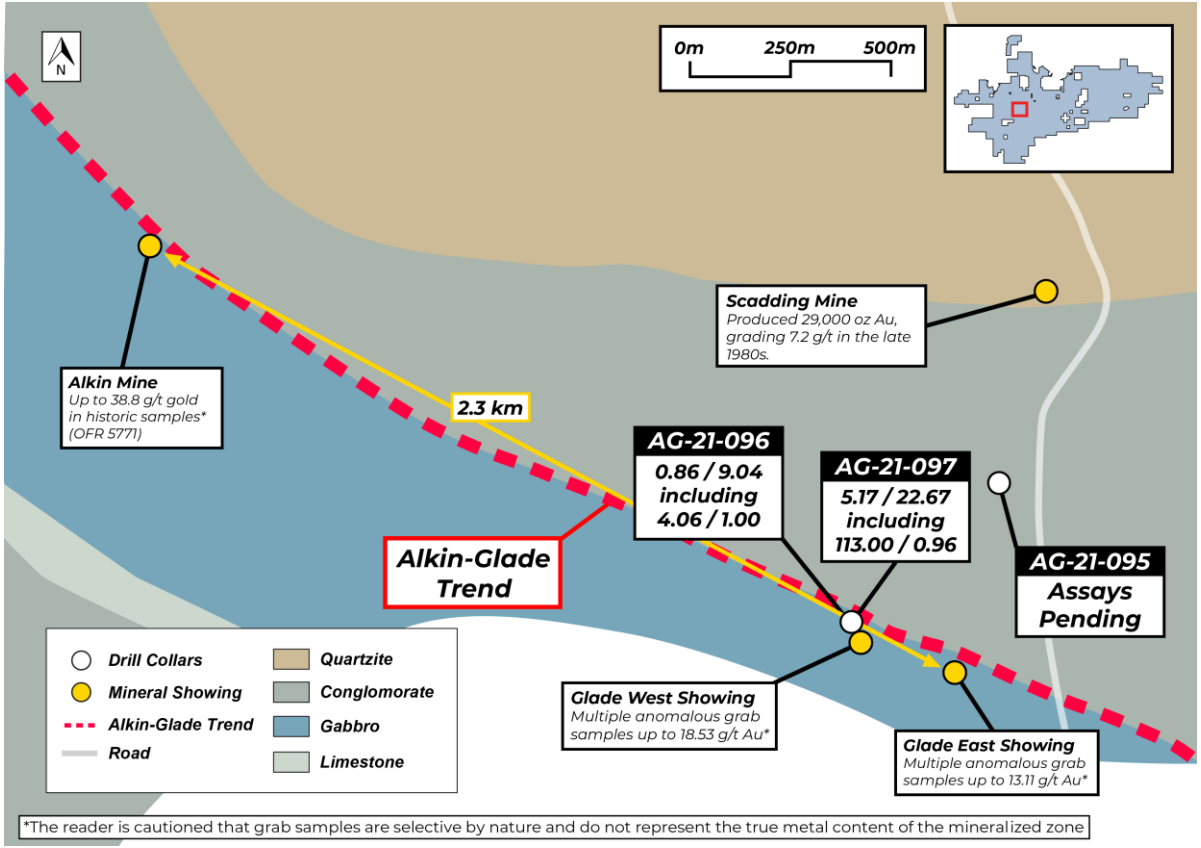
Jovan Area

- Au with Cu, Ni, Co and Ag in 2018 channel and grab samples
- 11 holes (~3,000m) drilled in 2021 to test geophysical anomalies along major structural corridors
- **Au, Ni and Pd** intersected as well as **744 g/t Ag over 1.22 m** – confirms polymetallic potential of area



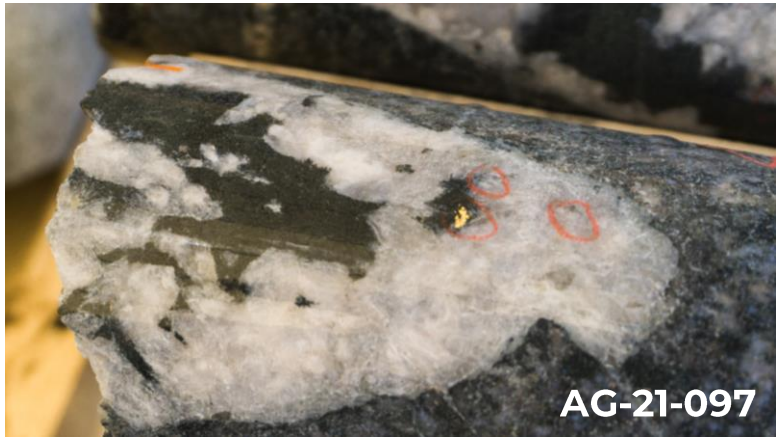
Alkin-Glade Area

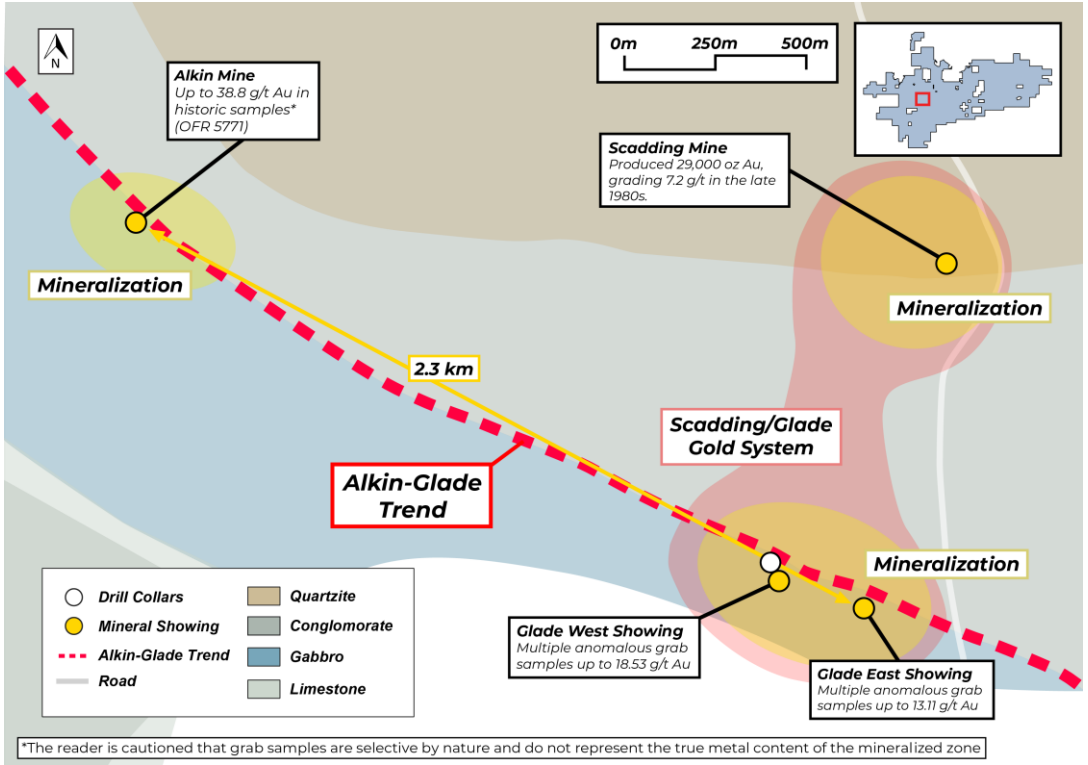
- 2019 grab samples returned up to 18.53 g/t Au
- Gold in networks of multi-directional quartz veins
- 2.3 km mineralized trend
- 3 holes drilled in March 2021:
  - ❑ **5.17 g/t Au over 22.67 m, including 113 g/t Au over 0.96 m** (AG-21-097)
  - ❑ **0,86 g/t Au over 9.04 m, including 4.06 g/t Au over 1 m** (Ag-21-096)



Mineralization at Glade

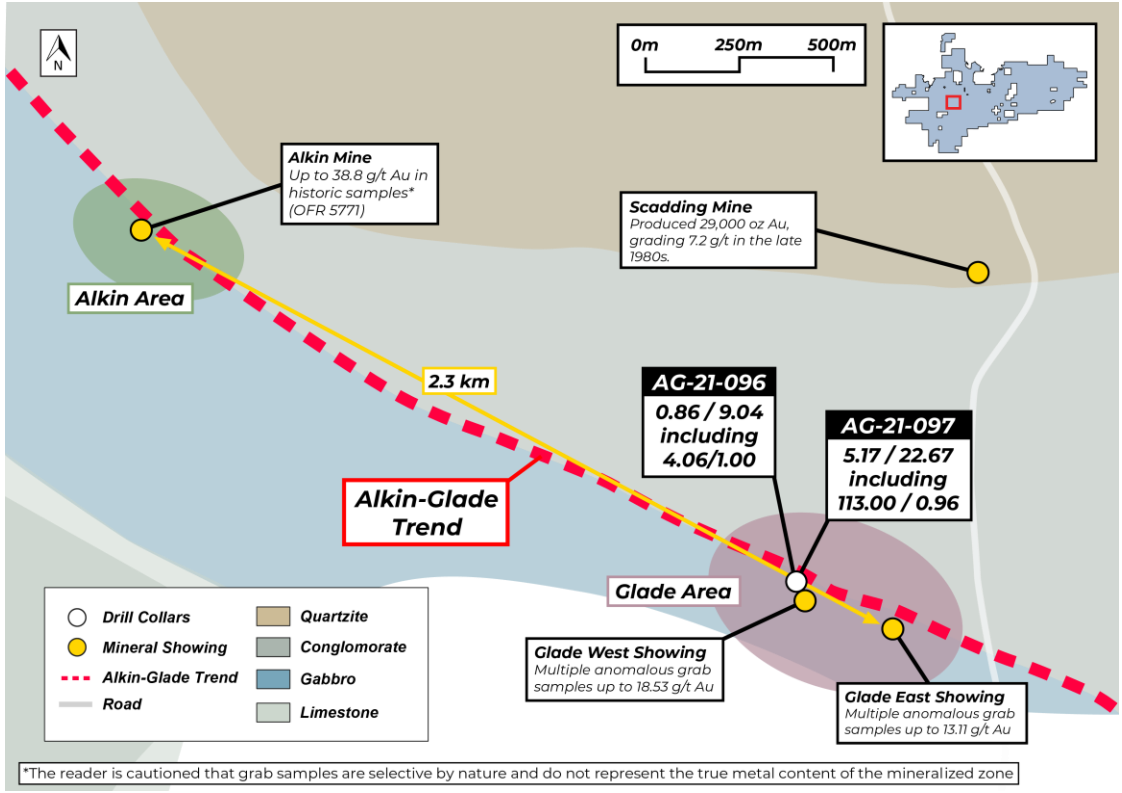
- Gold associated with quartz veins and iron-rich chlorite alteration
- Mineralized assemblages similar to those found at Scadding
- Potential extension of same system





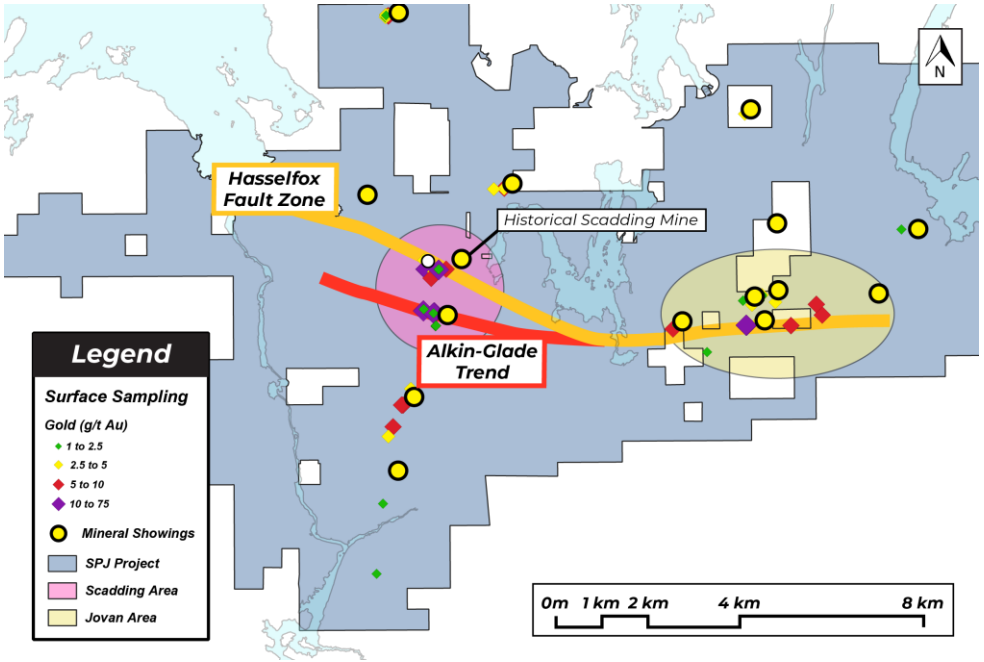
Summer 2021
Exploration Plan

- Expediate geologic mapping and prospecting over Glade area.
- Mechanized stripping, mapping followed by diamond drilling (end of June) at Glade.
- Drilling at Alkin mine.
- Connect mineralized centres along Alkin-Glade Trend.



12-Month Exploration Plan

- Resume drilling at Scadding - extend Au mineralization at depth in the North Pit area and west of the historical Scadding underground mine.
- Work towards resource definition at Scadding & Glade pending positive results
- Extend mineralization centres along the Palkovits Shear with surface mapping, mechanized stripping and diamond drilling.
- Expediate geologic mapping and prospecting along structural corridors that link Palkovits to Scadding and Glade



Additional Information

Board of Directors

Stuart Adair,
CPA, CA

Seasoned finance executive and junior mining sector investor for +25 years. CFO of Accord Financial Corp., a TSX-listed commercial finance company since 2002.

Pat Dubreuil,
MBA

Successful Northern Ontario businessman and entrepreneur; extensive and varied experience in the mining industry; VP Community and First Nation Engagement at Manitou Gold Inc.

Kevin Tanas,
P.Eng

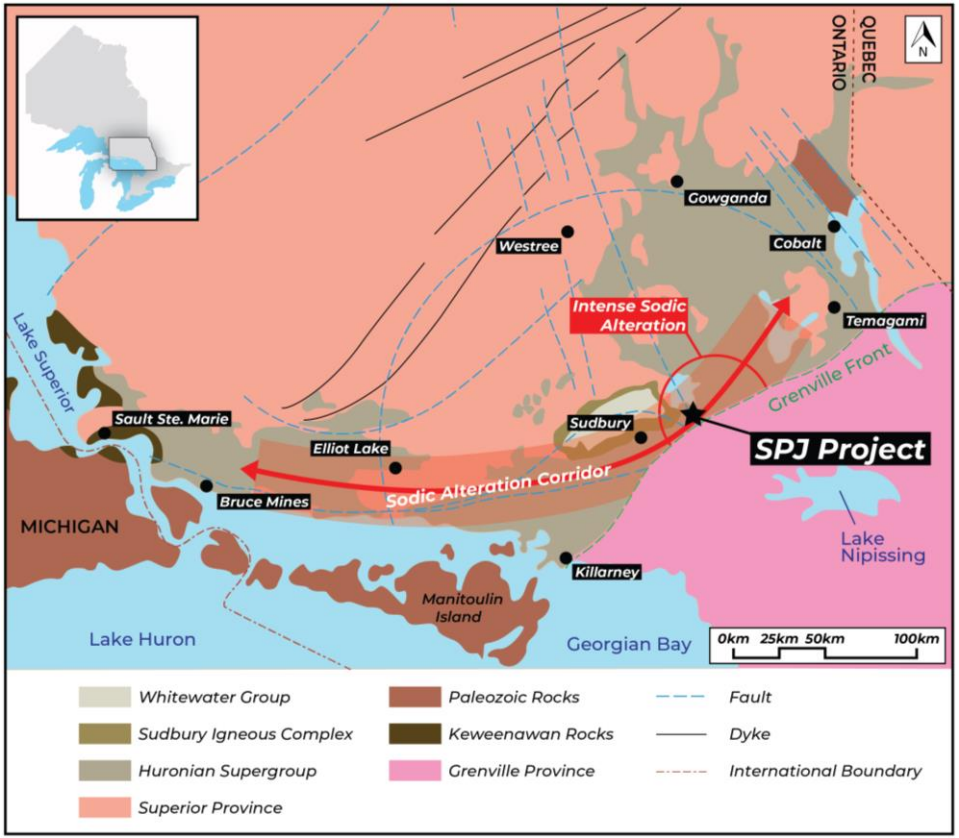
+20 years experience in mine technical study and review, financial modelling and technology planning; Principal Global Front End Solutions, Mining, Minerals & Metals at Worley.

Quentin Yarie,
P.Geo

Geophysicist with +25 years mineral exploration experience; involved in Malartic Mine discovery; Noront's Nickel Deposit discovery; and KWG Chromite deposit discovery. CEO at Red Pine Exploration Inc.

Geological Setting

- Located in the Southern Province
- 20 km east of the Sudbury Igneous Complex (“SIC”)
- In a regional sodic alteration (albitization) corridor
- Polymetallic gold mineralization appears to be associated with intense albitization, east and west of the SIC



SPJ Project Timeline

2018

July 2018
MacDonald Mines acquires Jovan and Powerline properties

November 2018
MacDonald Mines Assays Up to 14.74 g/t Au, 6.8% Co, 7.2% Cu and 0.28% Ni in channel samples at its Jovan-Powerline Properties

2019

April 2019
MacDonald Mines acquires Scadding Mine Leases

September 2019
MacDonald Mines drills 52 g/t Au over 12 m at the Scadding Deposit

December 2019
MacDonald Mines discovers Villeneuve Structure, channel samples return up to 147.8 g/t Au

2020

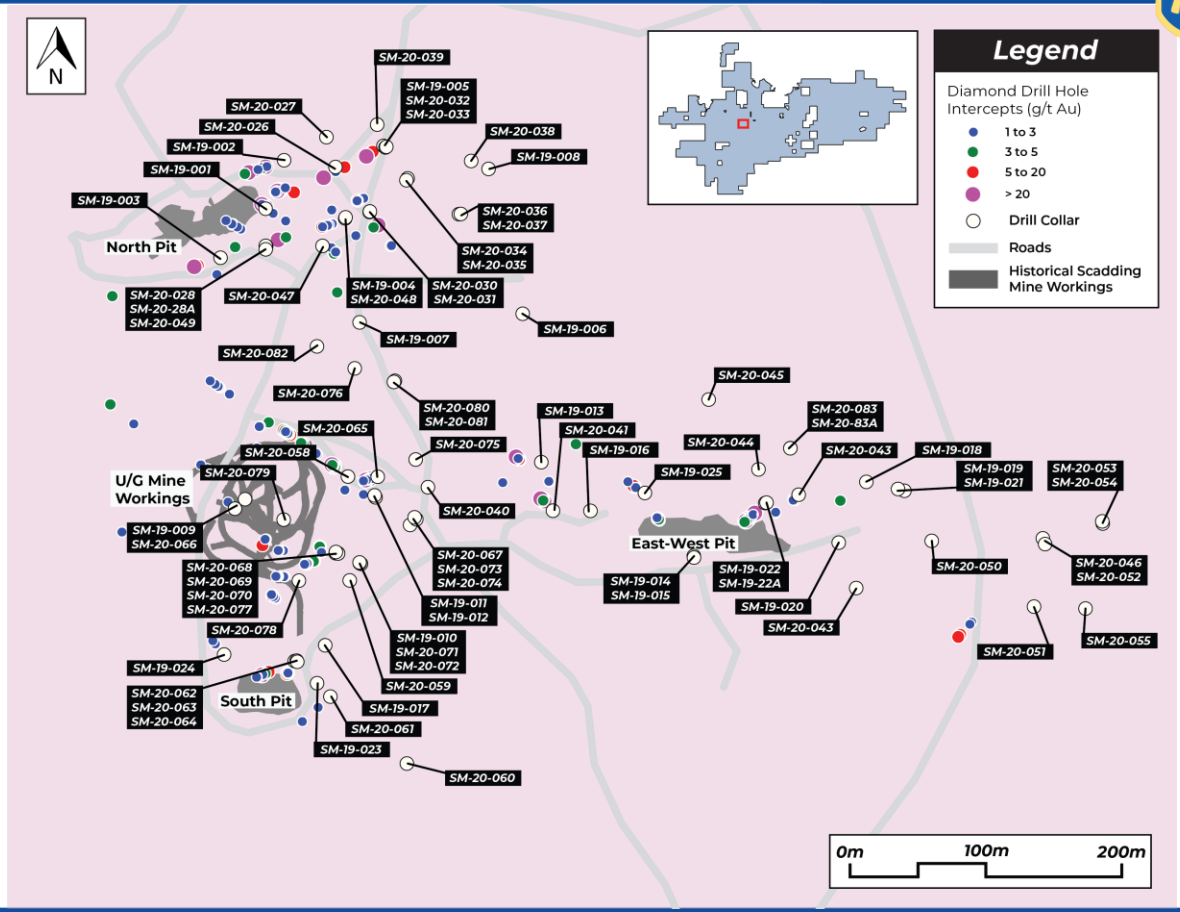
February 2020
MacDonald Mines Drills 735.5 g/t Au over 0.96 m and 411 g/t Au over 0.93 m within 19.07 m of 59.2 g/t Au in the North Pit Area

March 2020
MacDonald Mines expands North and Central Zones with 2020 Drill Program

2021

May 2021
MacDonald Mines makes Au discovery at Glade Showing. Initiates surface exploration in Glade area to identify drilling targets along Alkin-Glade trend.

Scadding Deposit 2019/20 Drilling



All assay results can be found at:
https://macdonaldmines.com/projects/spj-gold-project/

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