

# GENERATION PGM

December 2020 - UPDATE

## MARATHON PALLADIUM PROJECT



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# AGENDA

- Who is Generation PGM Inc.
- Need for the Project
- Project Description
- Schedule
- Environmental Assessment Through a Joint Review Panel
- Future Together



# INTRODUCTION

- Generation PGM Inc. (GenPGM) is a subsidiary of Generation Mining Limited, TSX:GENM
- Experienced management team with backgrounds in building, development and operations
- With interests in platinum group metals (PGM), specifically the Marathon Palladium Project
- Most advanced palladium project in North America



## Palladium: Ontario's Supply Advantage

Palladium's market value has greatly appreciated due to its critical role in auto manufacturing and vehicle exhaust systems, where it helps transform poisonous gases into less toxic and harmful outputs

- I. Insufficient global palladium supply exists
- II. Canada's platinum-group metals (including palladium) are concentrated Northern Ontario
- III. Expanding palladium production could revitalize Northern Ontario's economy

Marathon Project represents a vital strategic asset for a competitive Ontario economy and instrumental in the transition towards renewable energy and green technologies

## Copper: Essential to Vital Technology

*Copper is a key metal for many innovative technologies and a necessary component in the production of electric vehicles*



**Electric Vehicles**

A reliable supply of copper will be vital to the success of the recently announced upgrade to Ford's Oakville EV plant



**Telecomm**



**Industrial Tech**



**LED lightbulbs**



**Smart Grids**





- The open pit ore will be processed (crushed, ground and concentrated) at an on-site processing facility.
- Final concentrates containing Palladium and Copper will be transported off-site via road and/or rail to a smelter and refinery for extraction and purification
- Site construction will take 18 to 24 months
- Construction workforce will require +900 workers with an average of approximately 450 to 500 people
- Production is estimated to begin late 2023
- Operating workforce estimated at +450 people
- The mine has been designed to ensure that the environment will be protected with specific attention to water and air

## Improved Water Management

- Process Plant, primary crusher, truck shop, offices and fuel farm moved out of Pic River watershed
- Site access road realigned to cross fewer streams
- Storm Water Pond (SWP) added for risk management and protection of Pic River watershed
- SWP used to collect stormwater runoff and improve management of site water

## Reduce Greenhouse Gas and Understand the Carbon Footprint

- Mine Operation design to minimize fuel usage with the location of the primary crusher
- Evaluating Trolley Assist (electrical assistance for haul trucks) for key haulage segments
- Power efficient equipment included in the Processing Plant design
- Evaluating CO<sub>2</sub> capture in construction concrete and possibly processed solids

## Mine Rock Storage Area (MRSA)

- Includes storage of mine rock into pit(s)
- Similar footprint to past designs, less impact to sub-watersheds
- 85-90% of Mine Rock is Type 1 (not acid generating)
- Good quality waste rock can be used for aggregate – business opportunity

## Process Solids Management Facility (PSMF)

- We heard from communities → *limited* desire to have final discharge from PSMF to: Pic River, Bamooos Lake, Lake Superior and Angler Creek/Stream 6 as such... these have been **excluded**
- Hare Lake was selected as the preferred discharge location, based on feedback from communities
- Improved water management onsite and in PSMF
- +90% of water will be recycled in the process plant
- Excess water will be treated as required and discharged
- Discharge effluent will achieve required water quality objectives at end of pipe
- Discharge will be protective of fish and fish habitat

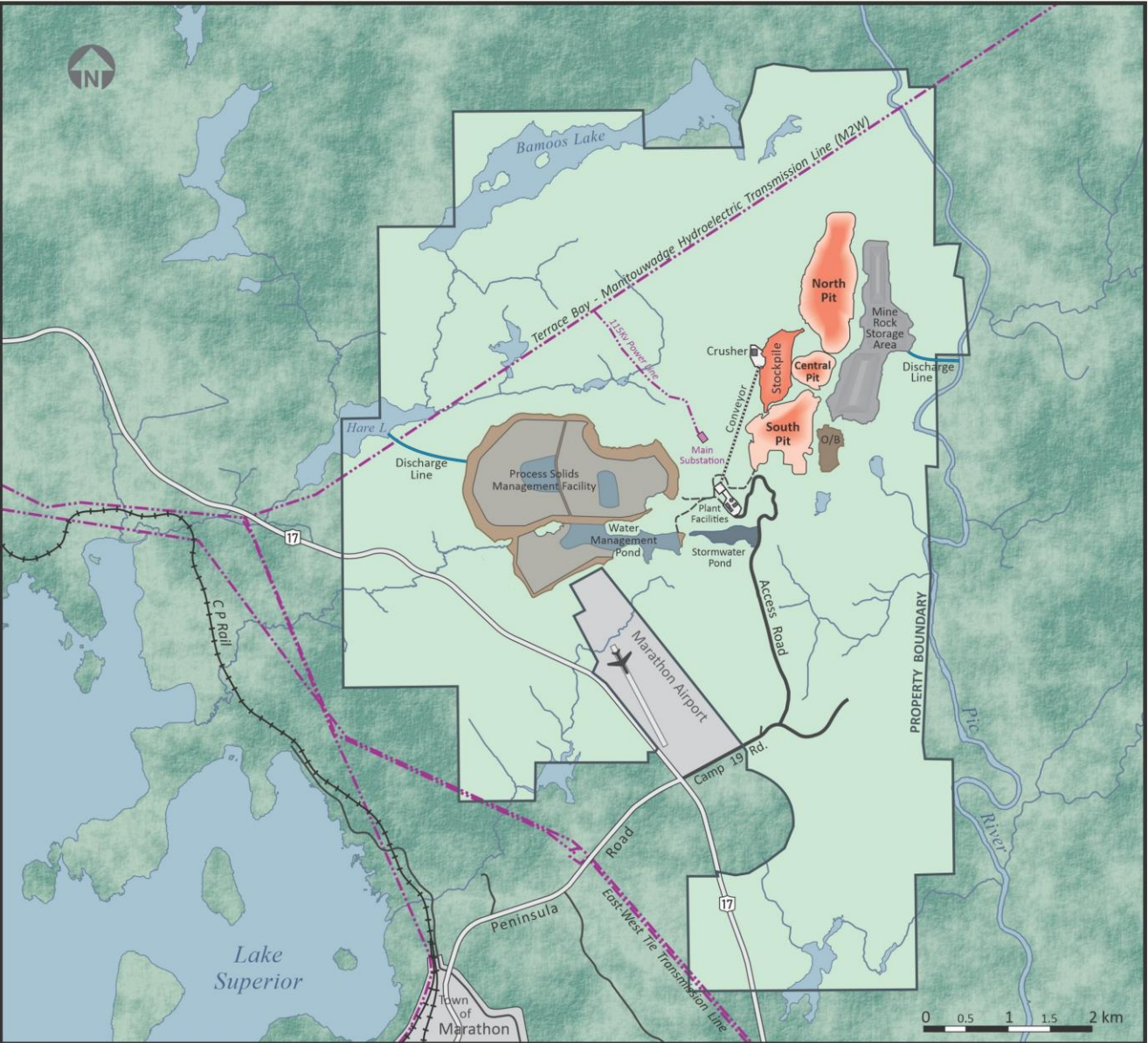


# OVERVIEW OF KEY DESIGN UPDATES

GENERATION PGM

| Topic                                     | 2014  | 2020  |
|---|---|---|
| Average Process Rate                      | 22,000 tonnes per day   | ~25,200 tonnes per day  |
| Open Pit                                  | One primary and four satellite pits                                       | Three Pits: North, Central and South                                      |
| Mine Life                                 | 11.5 years  | ~12.6 years   |
| Process Solids Management Facility (PSMF) | Located west of open pits, final elevation to 375 m above sea level (asl) | Similar footprint west of pits, elevation 380 m asl                       |
| Mine Rock Storage Area (MRSA)             | East of open pits   | Slightly smaller footprint, using mined-out pits for storage of mine rock |
| Process Plant and Primary Crusher         | Southeast of open pits  | West of open pits, now centrally located away from Pic River              |



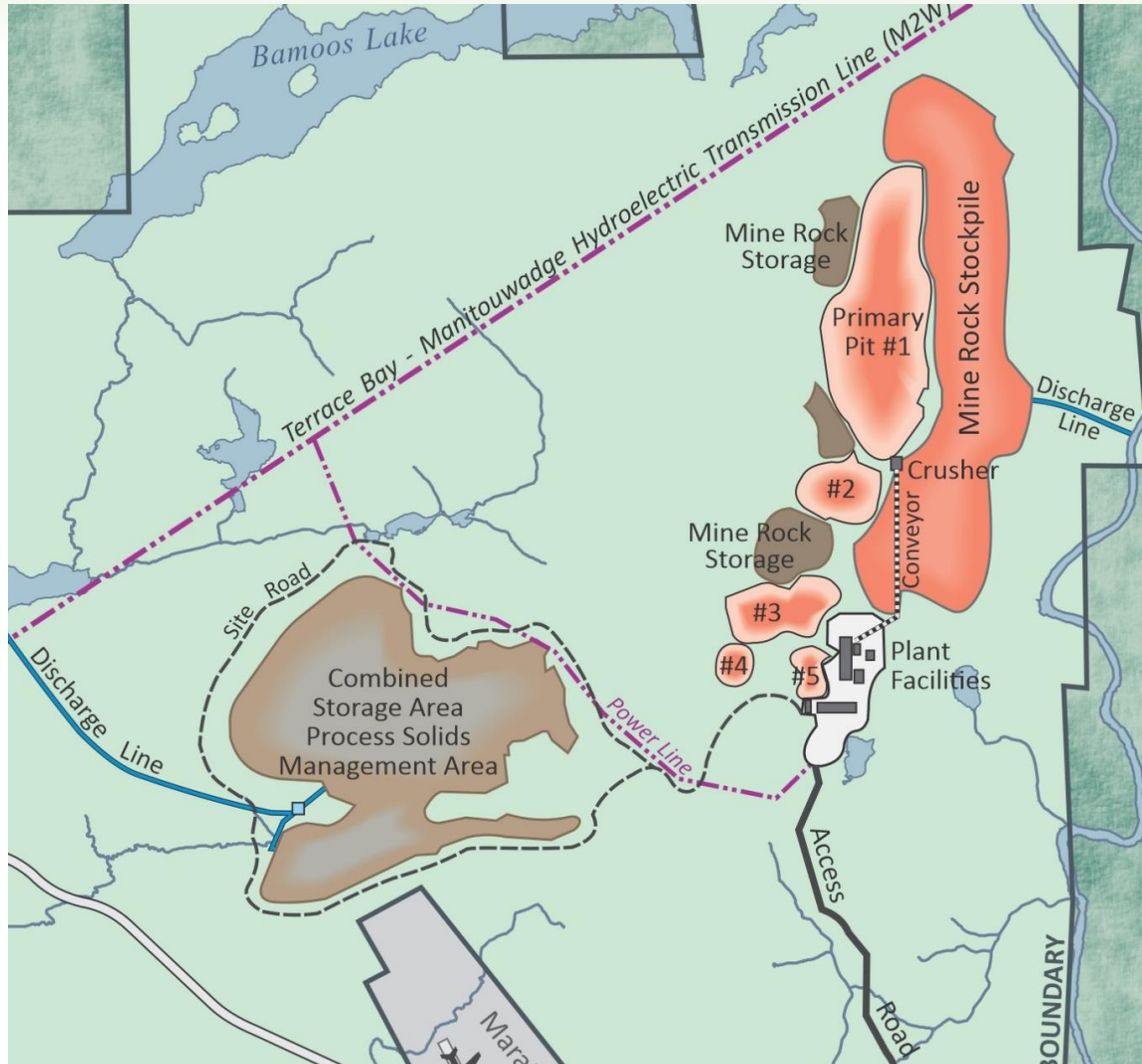


2020 Project Design

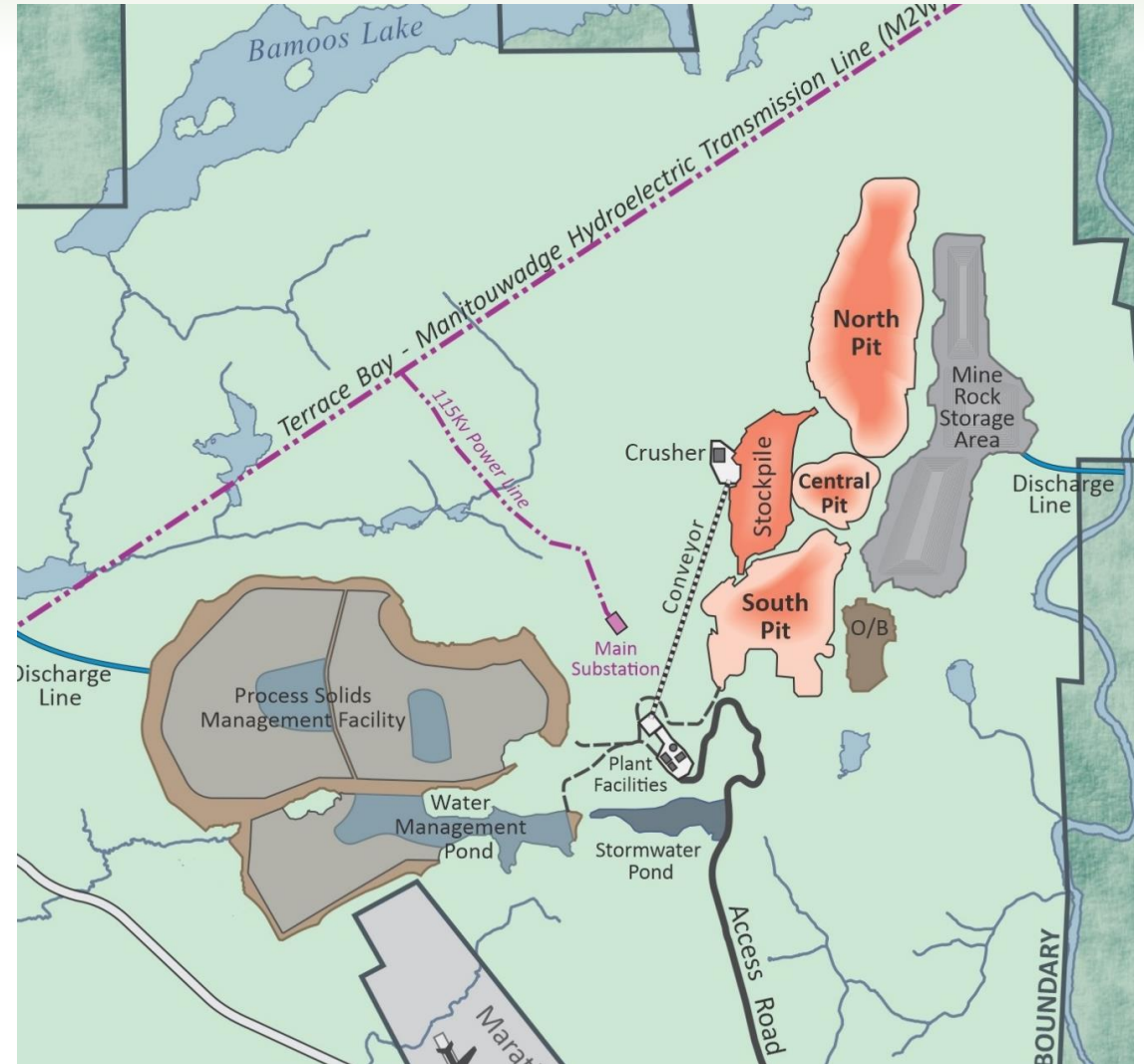


# 2014 PROJECT VERSUS 2020 OPTIMIZED DESIGN

GENERATION PGM



2014 Project Design



2020 Project Design



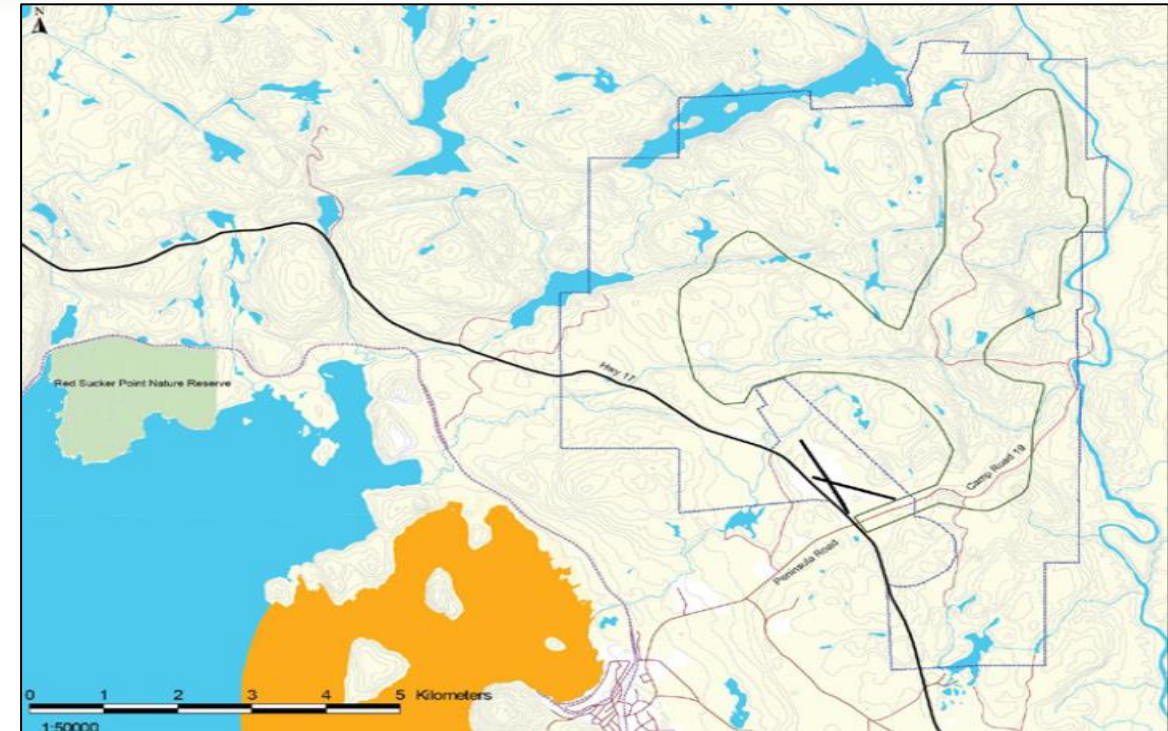
# MARATHON PALLADIUM PROJECT TIMELINE

GENERATION PGM

|                                    | 2019   | 2020   | 2021   | 2022   | 2023   |
|------------------------------------|--------|--------|--------|--------|--------|
| Asset Acquisition                  | Active |        |        |        |        |
| Update Resource                    | Active |        |        |        |        |
| PEA Study                          | Active | Active |        |        |        |
| Feasibility Study                  |        | Active | Active |        |        |
| EA / Permitting / Social Approvals |        | Active | Active | Active |        |
| Construction                       |        |        |        | Active | Active |
| Production                         |        |        |        |        | Active |

\* Important note: Construction and production are subject to favorable results in the feasibility study, permitting and financing of the project.

- The importance of this process is to consider the effects on ecosystem, and mitigate and/or eliminate any negative effects on the environment and communities
- Gen PGM is dedicated to protecting the Valued Ecosystem Components (VECs)
- Key elements include: management of water, protecting wildlife, vegetation, species at risk, and Indigenous and Community considerations
- Surveys conducted within the Project footprint to analyze possible effects
  - Birds, mammals, insects, plants
  - Groundwater and surface water
  - Air quality monitoring
  - Aquatic life



- - Project boundary
- - Project study area
- - Provincial Park
- - International Joint Commission Area of Concern (Peninsula Harbour)

Local Jobs and Youth Retention

350 – 400

Full time, permanent jobs generated, with most of these roles held by residents and community partners



3.75

Estimated employment multiplier.\* Every mining job created spurs nearly four downstream jobs in nearby industries



+

Significant financial benefits, business and employment opportunities for Indigenous communities through agreements



12+

Years in expected life of the palladium mine, sustaining jobs, retaining local youth, and spurring residual economic activity

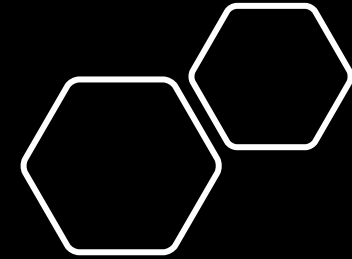
***The Marathon palladium mine will be a vital investment in the recovery of the Northern Ontario economy following the COVID-19 economic crisis.***

***This project will create good-paying jobs, while stimulating local industries and promoting the retention of local youth and talent.***

\*University of Toronto. ("Ontario Mining: A partner in prosperity building")



# GENERATIONPGM



More Information on the Project can be found at

[www.genmining.com](http://www.genmining.com)

and the Impact Assessment Registry at

<https://iaac-aeic.gc.ca/050/evaluations/proj/54755?culture=en-CA>

**If you have additional questions,  
please email us at [comments@genpgm.com](mailto:comments@genpgm.com)**

## Pays Plat Virtual Community Consultation – Dec 3, 2020

### Generation Mining – Marathon PGM Project Update

#### Participants

|  |   |
|--|---|
|  |   |
| Pays Plat First Nation                             | Debbie King, John Szurza, Darlene Morisseau, Raymond Goodchild, Peter Hollinger, Jimmy Michano  |
| Generation PGM                                     | Tabatha LeBlanc (presenter), Jamie Levy, Drew Anwyll and Chanelle Boucher                       |
| Generation PGM Consultants                         | Ruben Wallin, Kevin Sherlock and Cathryn Moffett  |
| Impact Assessment Agency of Canada                 | Jason Boisvert (presenter), Stephanie O'Connell, Genevieve Poitras and Cindy Parker (presenter) |
| Ministry of Environment Conservation and Parks     | Joseph Tyance   |
| Ministry of Energy, Northern Development and Mines | Colin Hovi  |
|  |   |

#### Meeting Summary

A tri-partite meeting to provide an update on the Marathon Project and the Joint Panel Review process required for its approval. PGM and IAAC both provided presentations (attached). Discussion focused on water quality protection and the consultation process.

##### 1. Project Update (Tabatha)

- Optimized 2020 project design from proposed 2014 project
- Modified discharge location to avoid important waterways
- Extended mine life by approximately 1 year
- Planned backfill of pits with mine rock to reduce footprint

##### 2. Discussion about water management and project design

- Q Water discharge must be protective of fish eggs
- A Yes, it will be protective of aquatic life
- Q Water quality should be tested downstream
- A Yes, monitoring will be required. We welcome community participation
- Q Lakehead U runs a water quality monitoring program at Hare Lake. They may have data that is of interest to GenPGM
- A Thank you, we will seek that info
- Q Community is concerned about Lake Superior. The current moves east to west, how will that influence the discharge?

- A No changes in water temperature, density or any other parameters are predicted to occur in Lake Superior.
- Q Jackfish Bay is an important area on Lake Superior where we are doing active restoration. We need assurance that discharge would not impact this area.
- A Jackfish Bay or other important areas can be included in fish compensation work for the Project
- Q Sturgeon spawn in Neys River, Little Pic and Prairie River. There are also rainbow trout and brook trout present. We need to protect these fish.
- A Water discharge will be protective of aquatic life
- Q Will you be doing any work to monitor contaminants over time?
- A Yes we will monitor sediment, benthics and water quality based on specific requirements that will be included in our permit. An Environmental Effects Monitoring plan will be put in place for the Project to confirm predictions are correct and ensure protection of aquatic life.
- Q Must acknowledge lack of trust due to historical issues with mining. The community does not want discharge into Hare Lake and is concerned about contaminants from Hare Creek flowing into Lake Superior. What is the fisheries compensation plan?
- A The 2014 offset plan is currently being updated. We will work with government and community to develop a plan that is fair and acceptable to everyone.
- Q Do you have a design plan for the PSMF facility? Will it include tertiary treatment?
- A There is no detailed design at this time, but the conceptual design is to collect and recycle 95% of the PSMF water. During the spring when high volumes of water are present, some water will be sent for treatment and filtration in a stand alone building, prior to discharge.
- Q How much of the rock is acid generating? What is your plan to manage it?
- A Most of the rock is non-acid generating NAG, also known as Type 1. It will be used for aggregate to build roads around the site. The PAG or potentially acid generating rock will be deposited back in the pit and covered with water.
- Q Why were we not involved in project design planning?
- A We have tried to include PPFN in the process and want to continue to work together



### **3. Project Schedule (Tabatha)**

- Feasibility of project was confirmed, project re-started in spring 2020
- Baseline studies updated as required, posted on public registry November 2020
- Submission of Environmental Impact Study to take a staggered approach, complete in early 2021
- Q We don't have enough capacity to review the reports properly. It is confusing that they are being published at different times. The consultation shouldn't be happening during a pandemic
- A Funding is available and there is still a long timeline ahead for comments and consultation

### **4. IAAC Consultation Process (Jason)**

- Role of Crown Consultation Coordinator
- Milestones driven by proponent
- Funding available for participation

### **5. Joint Review Panel Process (Cindy)**

- Timelines and regulatory clock
- Proponent and panel responsibilities
- Decision making at ministerial level

### **6. Discussion around process and communication**

- Pays Plat has established a new Committee for consultation about the Marathon Project.
- Q The community has not received proper notices from the government. We cannot meet the timelines you presented. The clock should be stopped for the pandemic.
- A The regulatory clock is currently on pause and will not restart until the complete EIS Addendum has been submitted, likely at the beginning of 2021. The panel will ensure all parties have sufficient time to review the reports and give comments.
- Q What does mitigation mean?
- A Mitigation means making changes to the project design that will minimize environmental effects.
- Q What is going to happen to all the trees during project design and stripping? Some of those trees and roots are used as traditional medicines for the community.
- Q The community wants to establish new reserve lands and this Project is infringing on our land claim. We declared a moratorium on mining in 2020.
- A The panel will consider everyone's point of view. The ministers will decide if the project can go forward based on the panel's recommendations

**Follow Up:** Establish meeting schedule with newly formed committee.

# Marathon Palladium Project

REVIEW PANEL AND CONSULTATION PROCESSES



Impact Assessment  
Agency of Canada

Agence d'évaluation  
d'impact du Canada

Canada

# Impact Assessment Agency of Canada

- Formerly the Canadian Environmental Assessment Agency (CEAA)
- Delivers federal EAs and IAs pursuant to the Impact Assessment Act (IAA), which came into force on August 28, 2019, replacing the *Canadian Environmental Assessment Act, 2012* (CEAA, 2012)
- The Impact Assessment Agency (the Agency) is leading the joint assessment with the province of Ontario
- The Marathon Palladium Project (the Project) will continue to be assessed under CEAA 2012. The IAA's transition provisions allow projects undergoing an environmental assessments by review panel to continue under the former act.
  - As per the transition provision described in subsection 183 of the IAA: *“Any environmental assessment of a designated project referred to a review panel under section 38 of the 2012 Act before the day on which this Act comes into force is continued under the 2012 Act as if that Act had not been repealed.”*



# History/Background

- October 2010: Project was referred to review panel due to the potential for the Project to cause significant adverse environmental effects
- August 9, 2011: The Joint Review Panel (the Panel) was established with Ontario
- July 2012: The Environmental Impact Statement (EIS) was submitted to the Panel. The Panel conducted its review of the EIS from July 2012 to December 2013, at which time the Panel determined it had sufficient information to proceed to a public hearing
- December 17, 2013: Public hearing was announced
- January 30, 2014: Proponent requested suspension of EA
- January 31, 2014: The Panel requested additional information from the Proponent and the regulatory clock was paused
- October 31, 2014: Joint Review Panel was disbanded and the EA was placed on hold
- October 9-23, 2020: Comment period on amended agreement to reestablish a Joint Review Panel for the Marathon Palladium Project
- November 16, 2020: Establishment of Joint Review Panel



# Resuming the EA

- On July 13, 2020, the Proponent advised the Agency that it plans on submitting updated studies as early as December 2020
- Response to the previous Panel's Information Request (IR) is anticipated in the 1st quarter of 2021
- On November 16, 2020 the federal and provincial Ministers announced a new Joint Review Panel. The early appointment of the Panel will allow the necessary time to review the current material on the public registry (over 900 documents).
- The mandate and timelines of the Joint Review Panel is set out in the Terms of Reference. This document is in the process of being amended, a draft version is available on the Registry.
- The regulatory clock currently remains paused. The federal Minister of the Environment has already extended the 181 timeline by 90 days to 271 days for Joint Review Panel to complete its mandate
- The remaining steps of the environmental assessment for the Panel include:
  - Reviewing the amended EIS and updated studies;
  - Reviewing the response to the former Panel's IR;
  - Conducting a public comment period;
  - Conducting a hearing; and
  - Write its report.



# Next Steps: Review of Updated Studies

- The updated studies and EIS addendum will be made available for public comment. Indigenous groups, the public, governments and other interested parties will be invited to provide comments on the sufficiency of the information (min. 60 days)
  - (what is required by the EIS Guidelines and on the technical merit of the information).
- After reviewing the information and any comments, the Joint Review Panel will determine if the EIS contains sufficient information to proceed to a public hearing (max. 30 days).
- If the Review Panel decides it does not have sufficient information it will request that from the proponent, and make any responses available for comment.
- If the Review Panel decides it has sufficient information, it will schedule the public hearing.





# Next Steps: Public Hearing

- Notice of Public Hearing
  - A minimum of 45 days notice shall be provided prior to the start of the public hearing
  - The hearing is usually held in communities most affected by Project, but possibility for virtual hearings, based on public health advice at the time
  - The former Joint Review Panel developed procedures for the conduct of the public hearing, which are on the public registry. The new Joint Review Panel may choose to amend these procedures
- Best efforts to complete the hearing within 30 days



# Next Steps: Panel Report

- The newly appointed Joint Review Panel will prepare and submit a report to the Minister of Environment and Climate Change and the provincial Minister of the Environment including:
  - Description of the joint review panel process
  - The rationale, conclusions and recommendations of the Panel
  - Any mitigation measures and follow-up programs required
  - Summary of the views of interveners and Indigenous groups
  - The Review Panel will submit its report to the federal and provincial Ministers at the earliest possible date, and within the overall time limit established under CEAA 2012.
- The Agency shall have the executive summary translated into Indigenous languages, upon request.



# Next Steps: Federal Government Decision

- The federal Minister decides whether adverse environmental effects are likely to be significant
- If the Minister's decision is that the project is likely to cause significant adverse environmental effects, the matter is referred to the Governor in Council (Cabinet) who will decide if the likely significant adverse environmental effects are justified in the circumstances
- The federal Minister issues the environmental assessment decision statement with enforceable conditions, coordinated with the provincial decision statement, as required.





# Registry

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To access all documents on the public record for the Marathon Palladium Project, please visit: <https://iaac-aeic.gc.ca/050/evaluations/exploration?projDocs=54755>

Any new information submitted to the new Review Panel will be made available at the same link.



# Role of the Crown Consultation Coordinator

The Role of the Impact Assessment Agency of Canada's Crown Consultation Coordinator includes but is not limited to:

- Consults Indigenous groups throughout the assessment process
- Collaborates with Indigenous groups on the assessment of impacts on rights
- Co-author the Crown Consultation and Accommodation Report to be presented to the Minister to inform decision making
- Coordinates federal departments involvement in consultation activities
- Coordinates with province in consultation activities
- Administers the Indigenous Funding Program
- Represents the Crown in its legal duty to consult, NOT part of the JRP Secretariat
- Upon request from the Joint Review Panel, provides information on the record to inform their analysis and recommendations



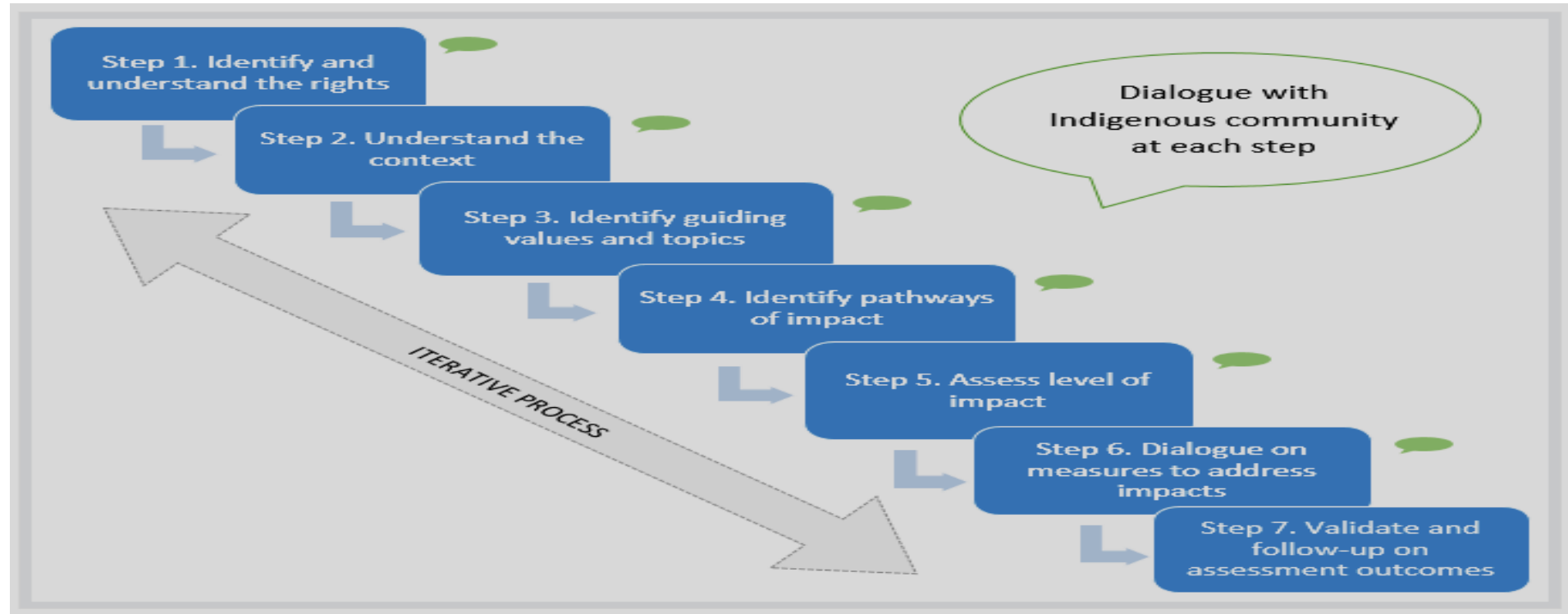
# Updated Consultation Activities

|           | Consultation activities in the Joint Review Panel Process  |
|-----------|--|
| Phase I   | Initial engagement and consultation on the updated draft Joint Review Panel Agreement including Terms of Reference   |
| Phase II  | Review of proponent's updated technical studies, prepare for Joint Review Panel process leading to hearings  |
| Phase III | Hearings and preliminary assessment of impacts on rights   |
| Phase IV  | Consultation on the Joint Review Panel EA Report, draft EA conditions for a federal Decision Statement, and finalization of Crown Consultation and Accommodation Report. |
| Phase V   | Federal and provincial regulatory permitting   |



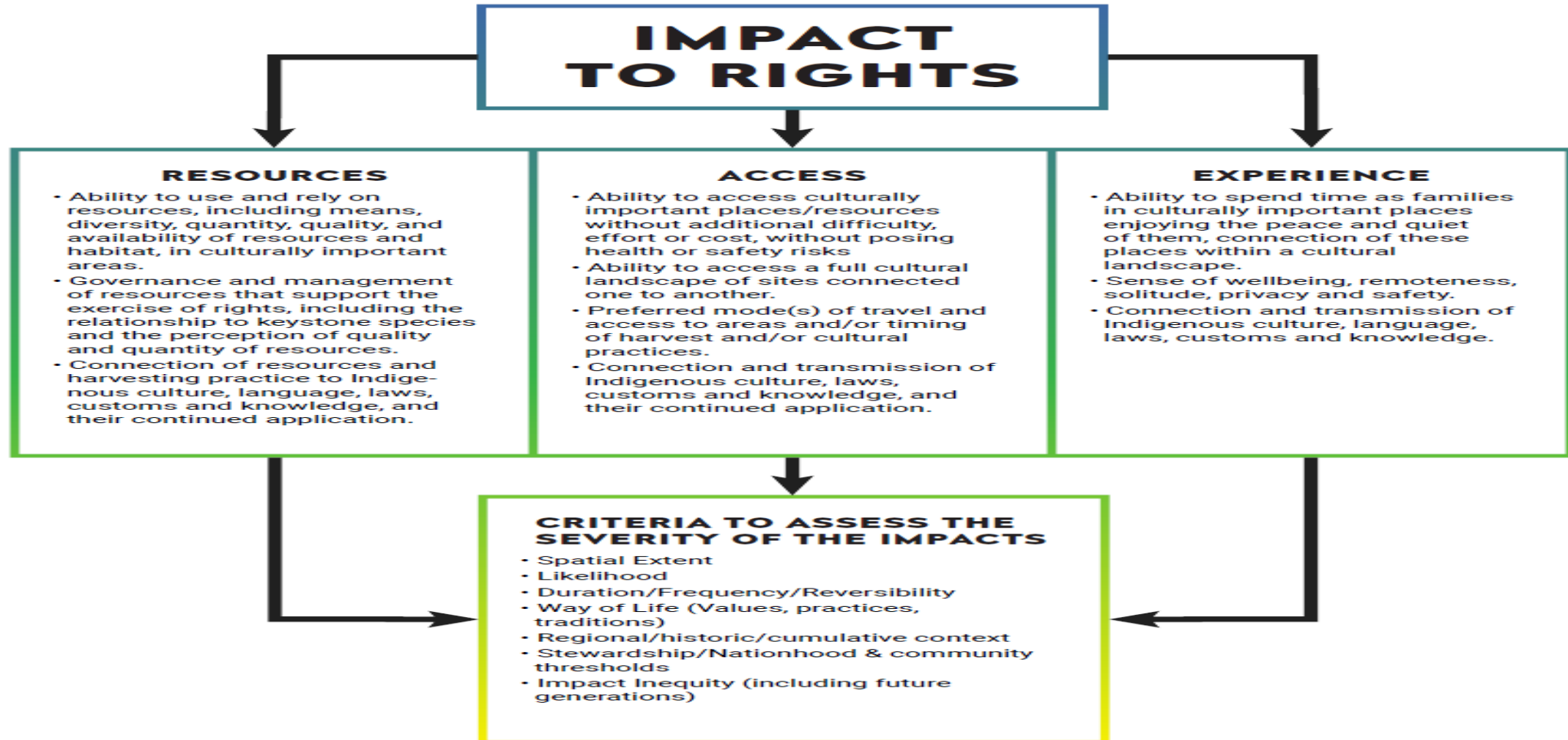
# Agency Guidance – Assessment of Impacts on Rights

The Assessment of Impact on the rights of Indigenous peoples can be broken down into seven steps.





# Methodology to Assess Severity of Impacts on Rights



# Consultation – Next Steps

- Virtual meetings continue
- Possibility of face-to-face meetings with Indigenous groups in the Fall/Winter
- Consult Indigenous groups on updated Joint Review Panel Terms of Reference, Harmonization Agreement, updated technical studies as these become public documents
- Share and present *Interim Guidance: Assessment of Potential Impacts on the Rights of Indigenous Peoples* and other guiding documents with Indigenous groups to begin discussions
- Prepare information packages to assist Indigenous groups participation in resumption of assessment process
- Collaborate on assessment of impacts on rights





# Agency Contacts

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Marathon Palladium Project  
Joint Review Panel

Email: [iaac.marathonminereview-examenminemarathon.aeic@canada.ca](mailto:iaac.marathonminereview-examenminemarathon.aeic@canada.ca)

Crown Consultation Coordinator  
Jason Boisvert

<contact information removed>



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**LED lightbulbs**



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- Good quality waste rock can be used for aggregate – business opportunity



## Process Solids Management Facility (PSMF)

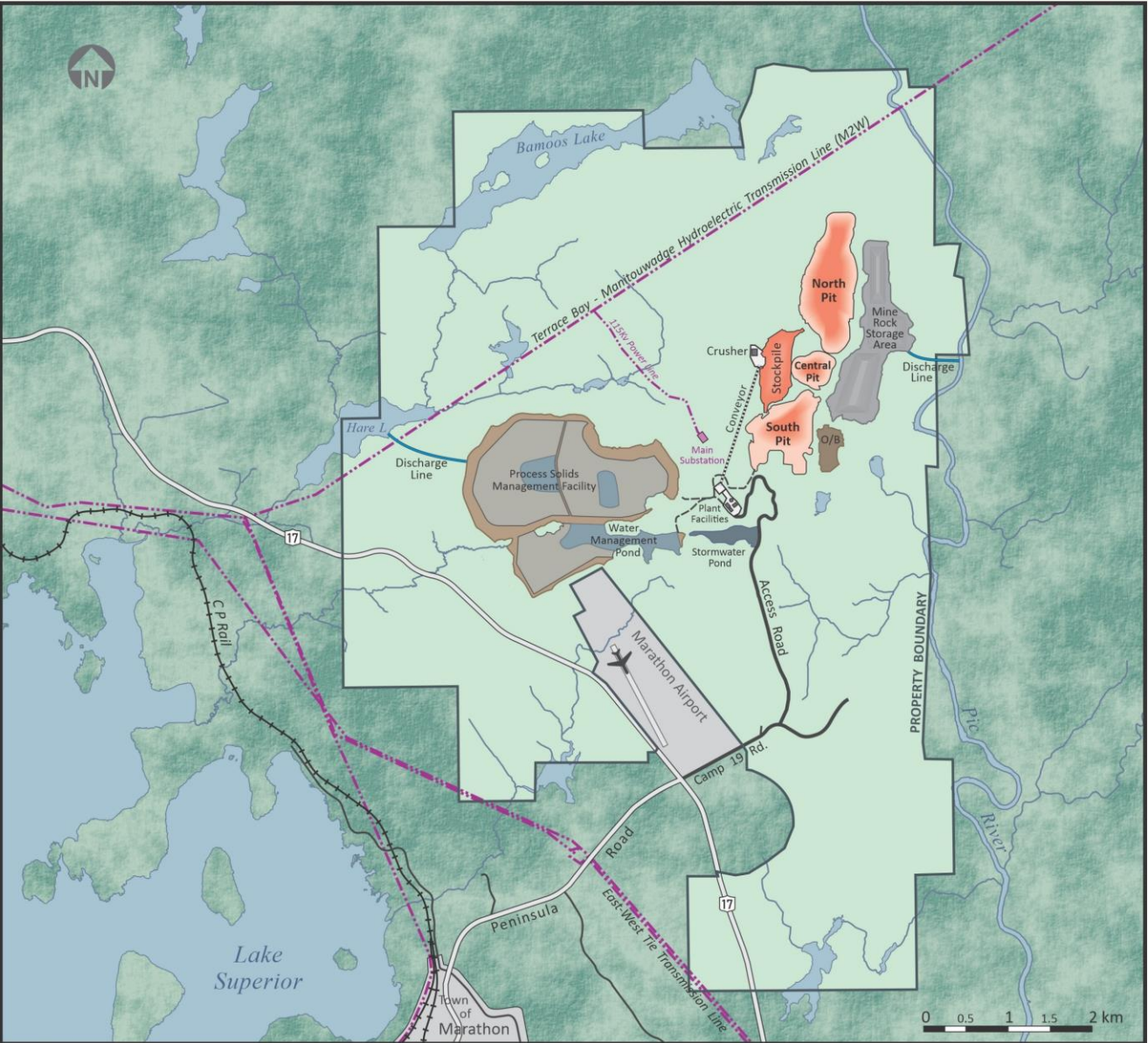
- We heard from communities → *limited* desire to have final discharge from PSMF to: Pic River, Bamooos Lake, Lake Superior and Angler Creek/Stream 6 as such... these have been **excluded**
- Hare Lake was selected as the preferred discharge location, based on feedback from communities
- Improved water management onsite and in PSMF
- +90% of water will be recycled in the process plant
- Excess water will be treated as required and discharged
- Discharge effluent will achieve required water quality objectives at end of pipe
- Discharge will be protective of fish and fish habitat

# OVERVIEW OF KEY DESIGN UPDATES

GENERATION PGM

| Topic                                     | 2014  | 2020  |
|---|---|---|
| Average Process Rate                      | 22,000 tonnes per day   | ~25,200 tonnes per day  |
| Open Pit                                  | One primary and four satellite pits                                       | Three Pits: North, Central and South                                      |
| Mine Life                                 | 11.5 years  | ~12.6 years   |
| Process Solids Management Facility (PSMF) | Located west of open pits, final elevation to 375 m above sea level (asl) | Similar footprint west of pits, elevation 380 m asl                       |
| Mine Rock Storage Area (MRSA)             | East of open pits   | Slightly smaller footprint, using mined-out pits for storage of mine rock |
| Process Plant and Primary Crusher         | Southeast of open pits  | West of open pits, now centrally located away from Pic River              |



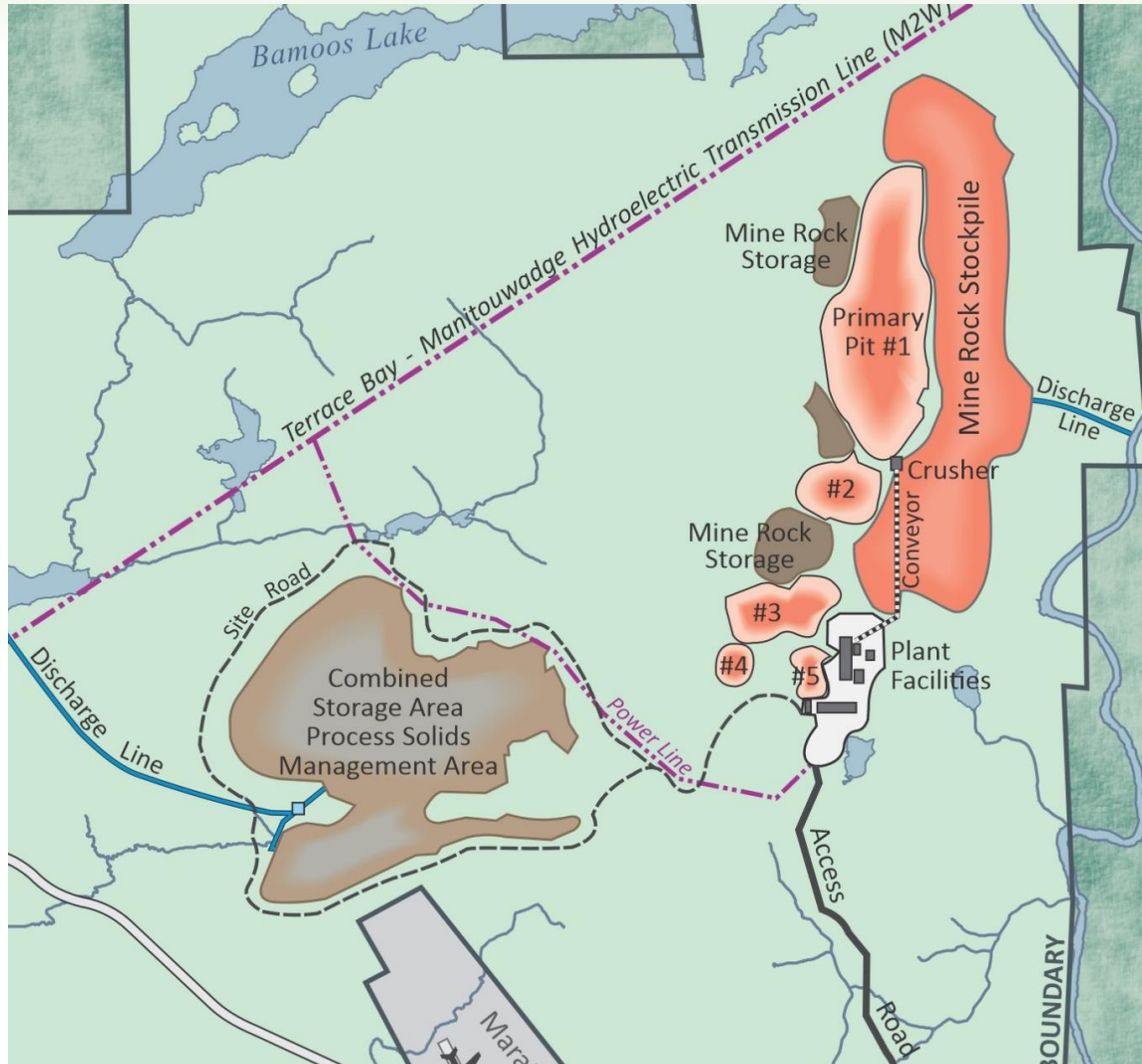


2020 Project Design

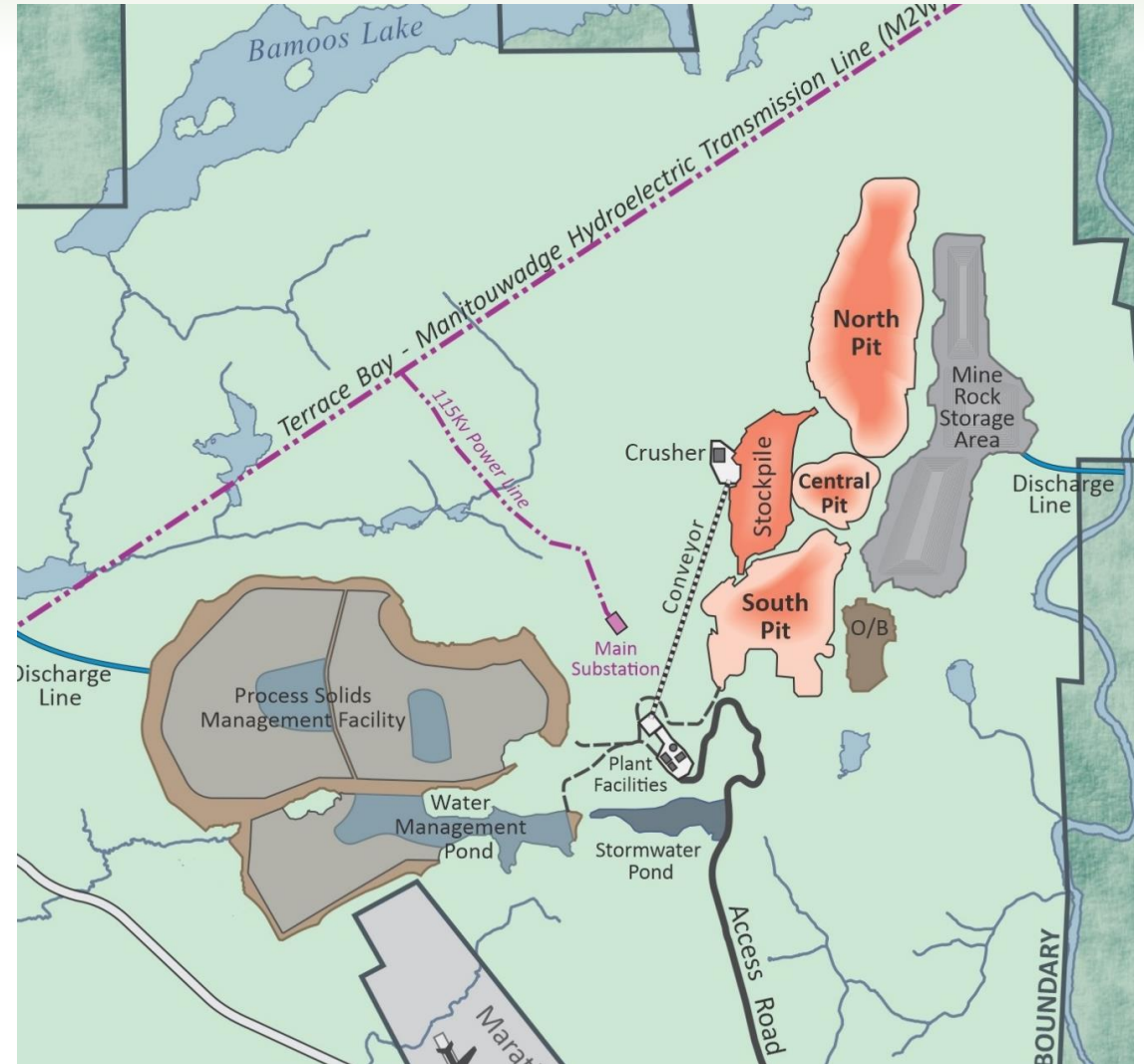


# 2014 PROJECT VERSUS 2020 OPTIMIZED DESIGN

GENERATION PGM



2014 Project Design



2020 Project Design

# MARATHON PALLADIUM PROJECT TIMELINE

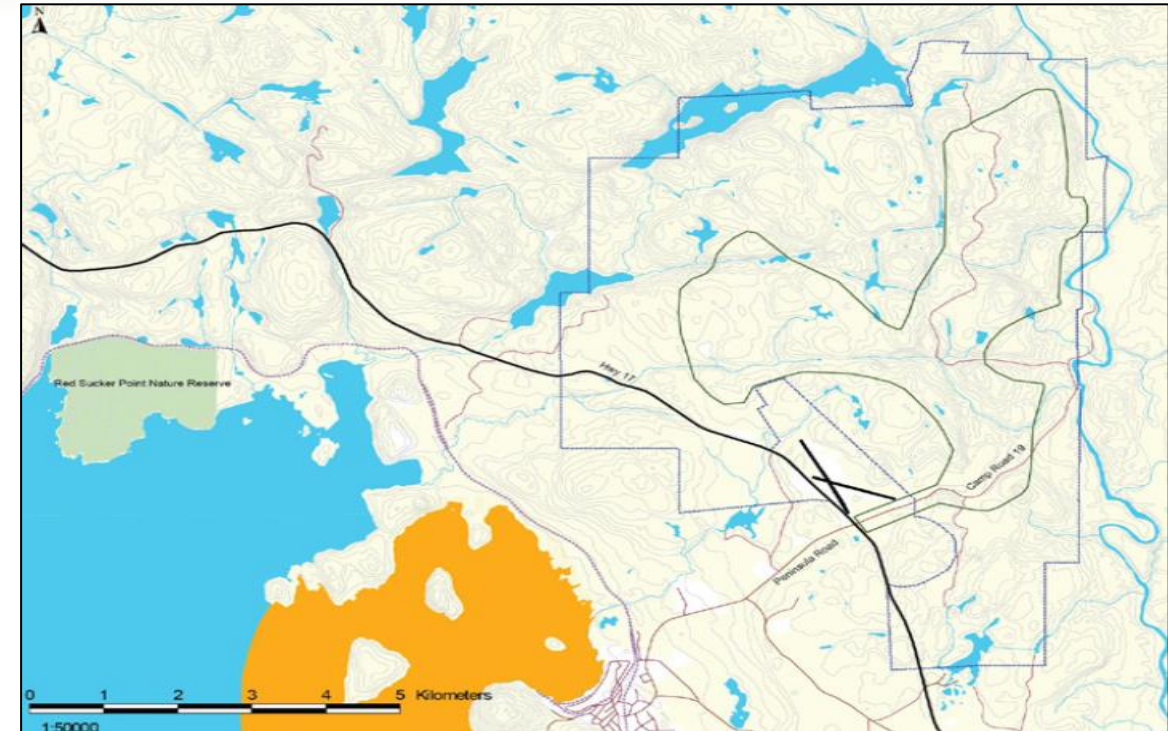
GENERATION PGM

|                                    | 2019 | 2020 | 2021 | 2022 | 2023 |
|------------------------------------|------|------|------|------|------|
| Asset Acquisition                  | █    |      |      |      |      |
| Update Resource                    | █    |      |      |      |      |
| PEA Study                          | █    | █    |      |      |      |
| Feasibility Study                  |      | █    | █    |      |      |
| EA / Permitting / Social Approvals |      | █    | █    | █    |      |
| Construction                       |      |      |      | █    | █    |
| Production                         |      |      |      |      | █    |

\* Important note: Construction and production are subject to favorable results in the feasibility study, permitting and financing of the project.



- The importance of this process is to consider the effects on ecosystem, and mitigate and/or eliminate any negative effects on the environment and communities
- Gen PGM is dedicated to protecting the Valued Ecosystem Components (VECs)
- Key elements include: management of water, protecting wildlife, vegetation, species at risk, and Indigenous and Community considerations
- Surveys conducted within the Project footprint to analyze possible effects
  - Birds, mammals, insects, plants
  - Groundwater and surface water
  - Air quality monitoring
  - Aquatic life



- - Project boundary
- - Project study area
- - Provincial Park
- - International Joint Commission Area of Concern (Peninsula Harbour)

Local Jobs and Youth Retention

350 – 400

Full time, permanent jobs generated, with most of these roles held by residents and community partners



3.75

Estimated employment multiplier.\* Every mining job created spurs nearly four downstream jobs in nearby industries



+

Significant financial benefits, business and employment opportunities for Indigenous communities through agreements



12+

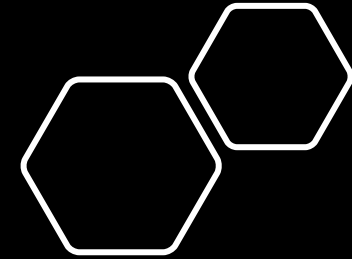
Years in expected life of the palladium mine, sustaining jobs, retaining local youth, and spurring residual economic activity

***The Marathon palladium mine will be a vital investment in the recovery of the Northern Ontario economy following the COVID-19 economic crisis.***

***This project will create good-paying jobs, while stimulating local industries and promoting the retention of local youth and talent.***

\*University of Toronto. ("Ontario Mining: A partner in prosperity building")

# GENERATIONPGM



More Information on the Project can be found at

[www.genmining.com](http://www.genmining.com)

and the Impact Assessment Registry at

<https://iaac-aeic.gc.ca/050/evaluations/proj/54755?culture=en-CA>

**If you have additional questions,  
please email us at [comments@genpgm.com](mailto:comments@genpgm.com)**

# GENERATION PGM

## WORK PROGRAMS 2021-2022

December 2020

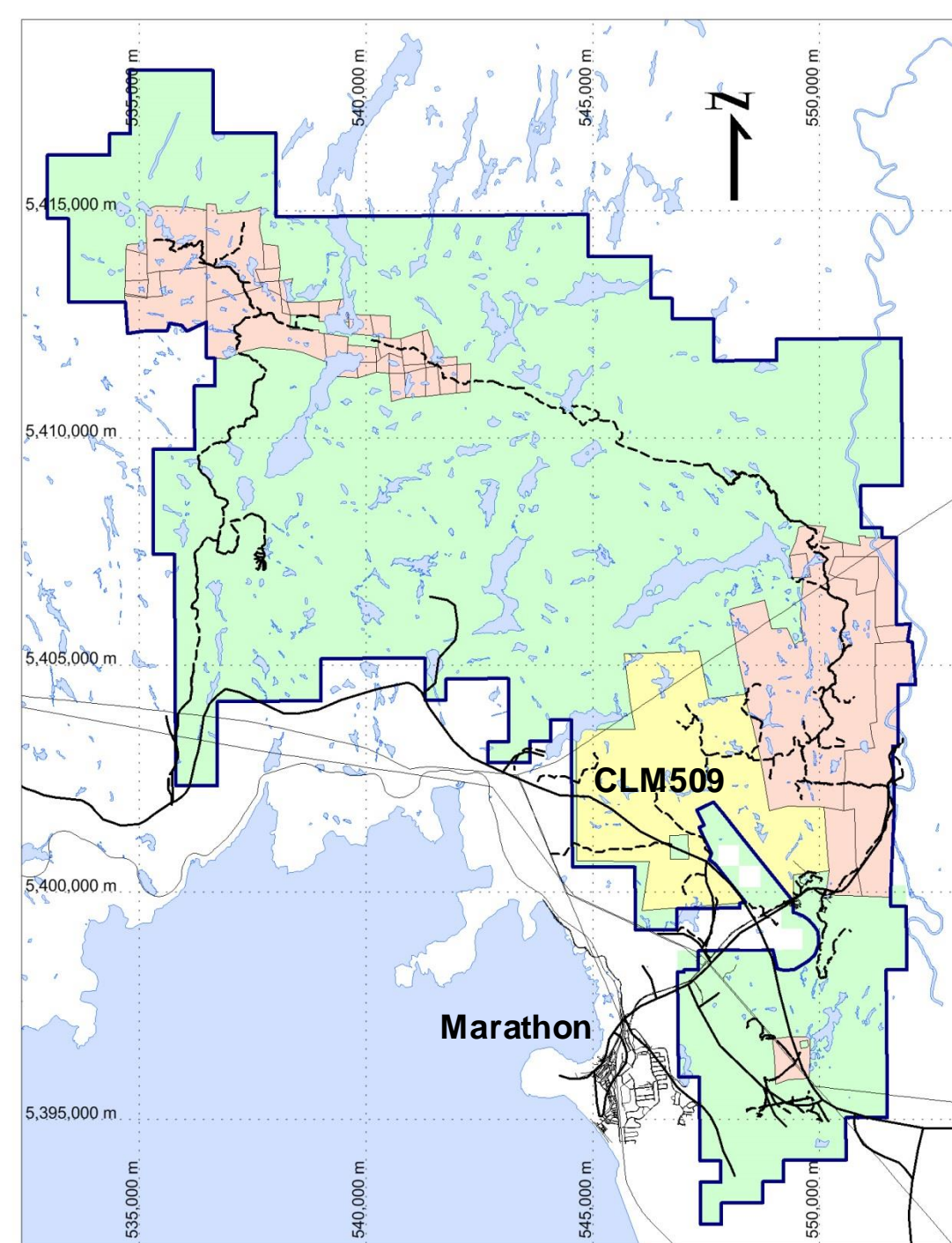




- Generation Completed the 2020 exploration program in October
  - Completed magnetotelluric geophysics at Marathon, Sally and Four Dams
  - Completed 5000m of diamond drilling at Marathon
  - Surface mapping, prospecting and stripping at Marathon
- Continuing Definitive Feasibility Study planned to be completed by Q1 of 2021
- Government of Canada and the Province of Ontario announced the appointment of the Joint Review Panel to conduct the environmental assessment.
- Generation completed the requirement to earn an 80% interests in the Project from Sibanye-Stillwater Ltd, by completing a Preliminary Economic Assessment and spending \$10 million within a four year period.
- Submitting, notices for Endangered Species act, stream crossings and others to government agencies, exploration permit amendments.

## MARATHON PGM PROPERTY

- Conversion of legacy claims to Lease CLM509 planned to be completed by 2021 (yellow)
- No other changes planned for the property boundary, claims or leases in 2021



- No field work is planned for the winter months, however, exploration activities that will continue throughout the winter from December to June include;
  - Relogging drill core, modeling, mineralogy, geochemistry
- Exploration activities may occur simultaneously and with dual purpose to the work related to the advancing the project to development.
- All plans are subject to pending 2020 results, board approvals and financing.
- Continue to implement Federal and Provincial regulations for staffing and workplace related to COVID19 which may hinder or alter the work plan.

## Boyer

- Continue to surface field map and prospect for 2.5 km west of current showings.
- Complete outcrop mapping/sampling from 2019
- Soil sampling program filling in underexplored area between Boyer and Sally

## Marathon

- Drilling at Marathon North and west of the Marathon Deposit. Follow up successful results from the 2020 program
- Borehole EM survey
- Complete outcrop mapping/sampling from 2020

## Sally

- Drilling the geophysical target and western extension.
- Borehole EM survey
- Map and strip prospective areas east of the deposit
- Soil sampling program filling in underexplored area between Sally and Boyer.





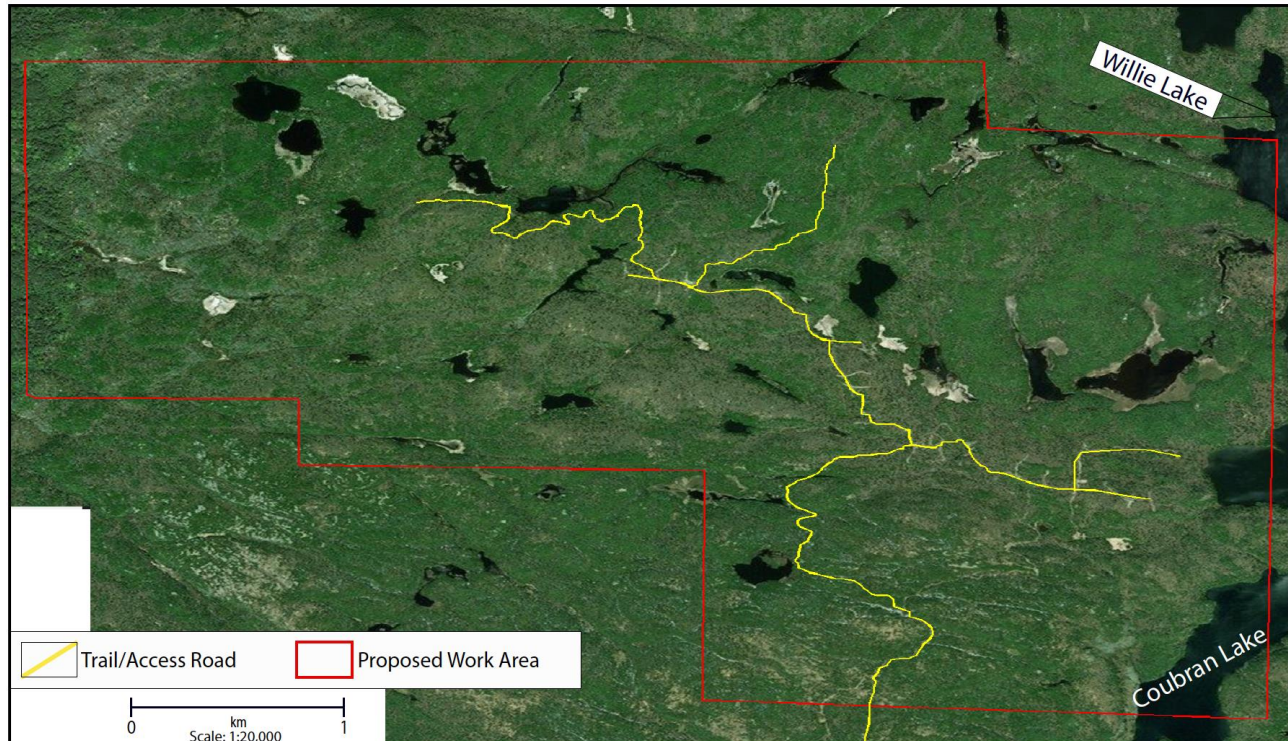
- Exploration activities would commence mid to late May (target date May 25<sup>th</sup>) and be completed by November 1<sup>st</sup>
- One drill would be utilized to complete the exploration program
- Sally drilling would be helicopter supported but all other activities and locations would be accessed by ground using ATVs and UTVs

- Complete the Definitive Feasibility Study.
- Stay connected to communities and provide regular updates and look for opportunities to collaborate.
- Maintain assets – buildings, land, employees, equipment and keep claims and leases in good standing, trail maintenance. Geordie trail is currently impassible for UTV and drilling equipment and has become a safety concern. Due to the inaccessibility and lack of material near the area of concern a portion of outcrop will need to be leveled by blasting. The material will remain on site and be used in place to create a passible trail. The trail will remain to be only accessibly by ATV/UTV equipment.
- Fly a property wide LIDAR survey for accurate elevation contours.
- Ensure compliance- inspect trails, bridges, water crossings, aggregate pit and other aspects of property to ensure no degradation is occurring. Continue with some level of baseline studies (assists with monitoring site conditions).
- Remediation of exploration activities, infill stripped areas, seed drill pads and sloped access, remodel drill pads.

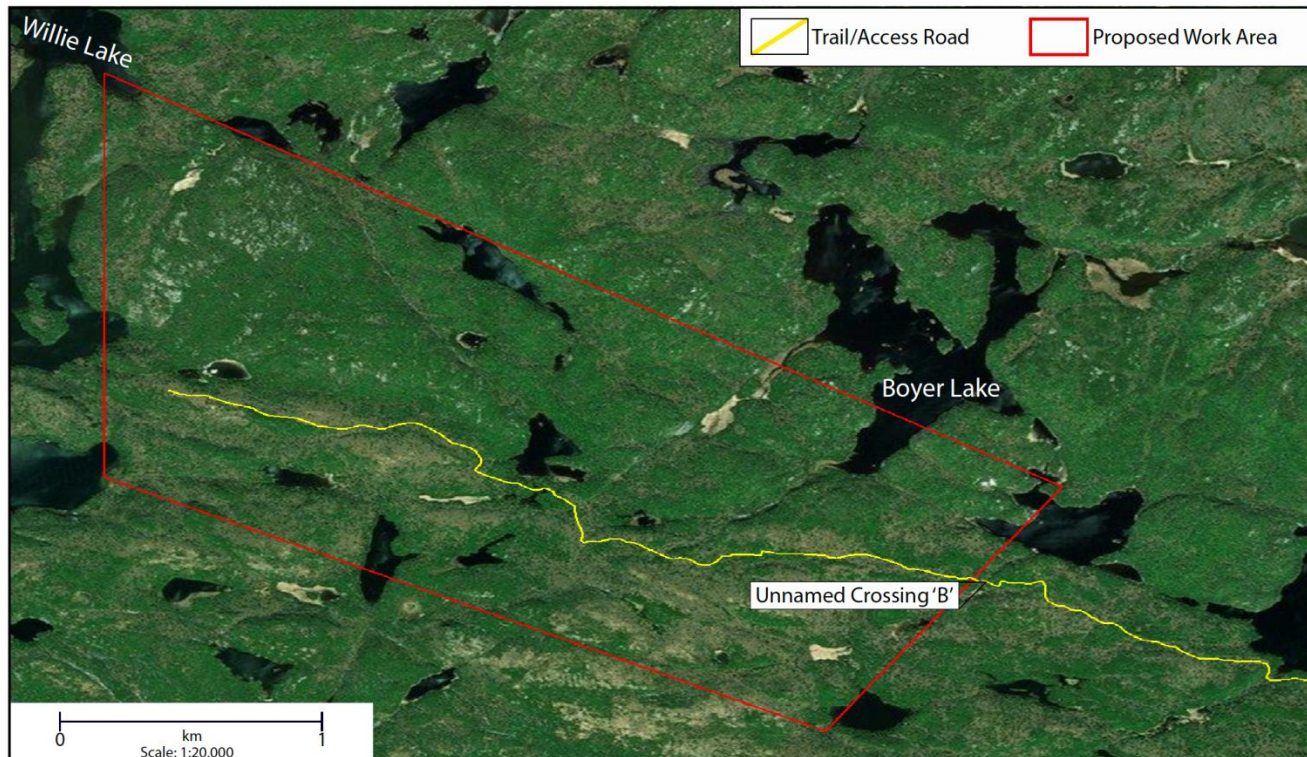
- Job postings will be provide in the Spring once the exploration activities are confirmed. Common postings include, geologist, geotechnicians, core cutters and general labour.
- RFP for work programs will be provide including the diamond drilling contract and managing processing surface stripping.
- Continue to provide site tours and opportunities to participate in environmental sampling.

- Maintain baseline at Project site major watershed outlets (8 locations) and Boyer, Marathon and Sally exploration areas (map next slide). Reduced program at Geordie zone.
- Endangered Species Act –Notice of Activity filed for Woodland Caribou Habitat, Long-eared Bat and Little Brown Bat. Draft mitigation report as requirement of ESA being prepared.
- Four Permits to Take Water applications filed in 2020 were delayed until May of 2021. They are for potential drill programs at exploration zones (Marathon, Boyer, Sally and Geordie). Up to 100,000L/day with two drills working per zone at any one time (see map).
- Annual Authorization for equipment to ford streams where ATVs and low water crossings are in place in Boyer area.
- Complete inspections and seasonal maintenance – bridges, aggregate pit & trails.



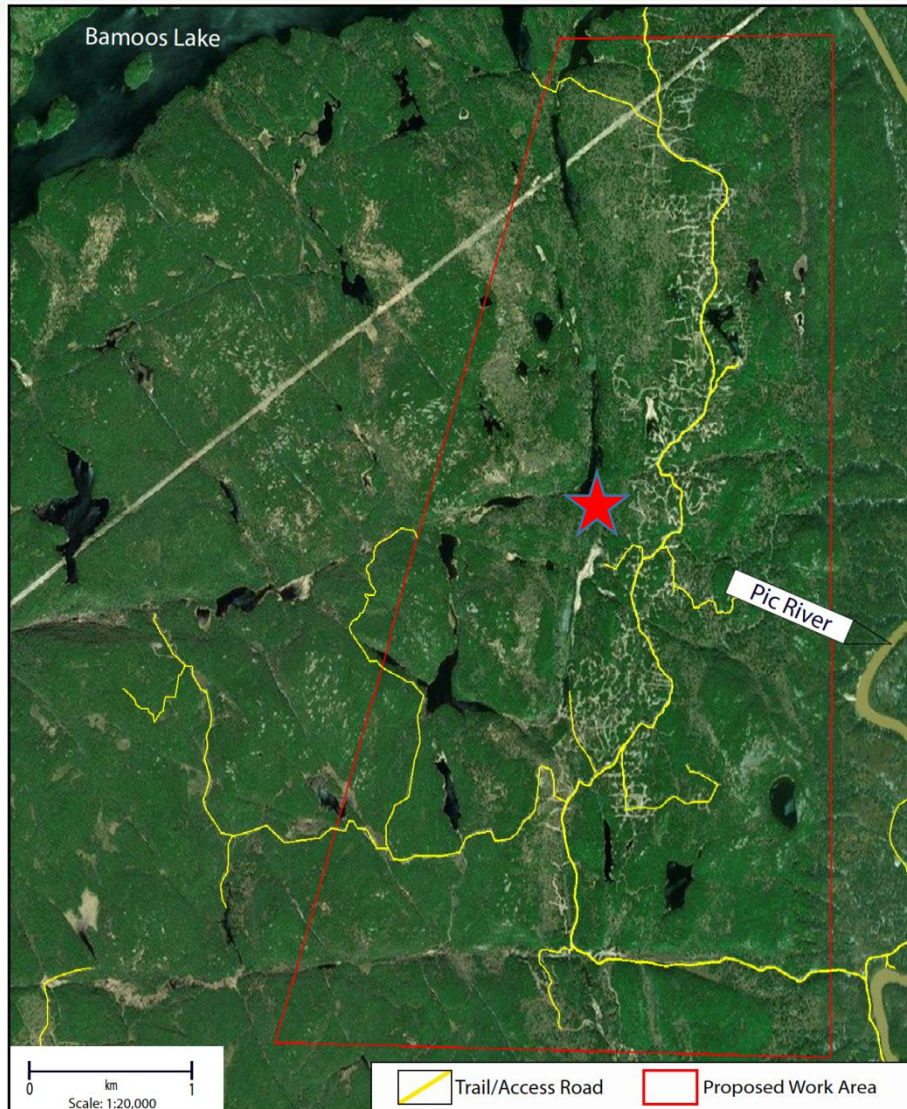


- Sally Deposit is located 15 km north west of the Marathon deposit and accessed by the Geordie Trail.
- Work if focused along the trail network (yellow).
- Drilling geophysical targets
- Soil sampling program is planned along the east side towards Boyer



- Boyer showing is located 11km to the north west of the Marathon Deposit along the outer margin of the Complex.
- Complete washing, cutting and mapping open stripped areas from 2019.
- Continue to map and prospect to the west of current exploration
- Soil sampling west towards the Sally Deposit.





- Complete washing, cutting and mapping open stripped areas from 2020.
- Follow up on successful drilling from 2020
- Resource infilling drilling and condemnation drilling



# MARATHON PGE-CU PROPERTY

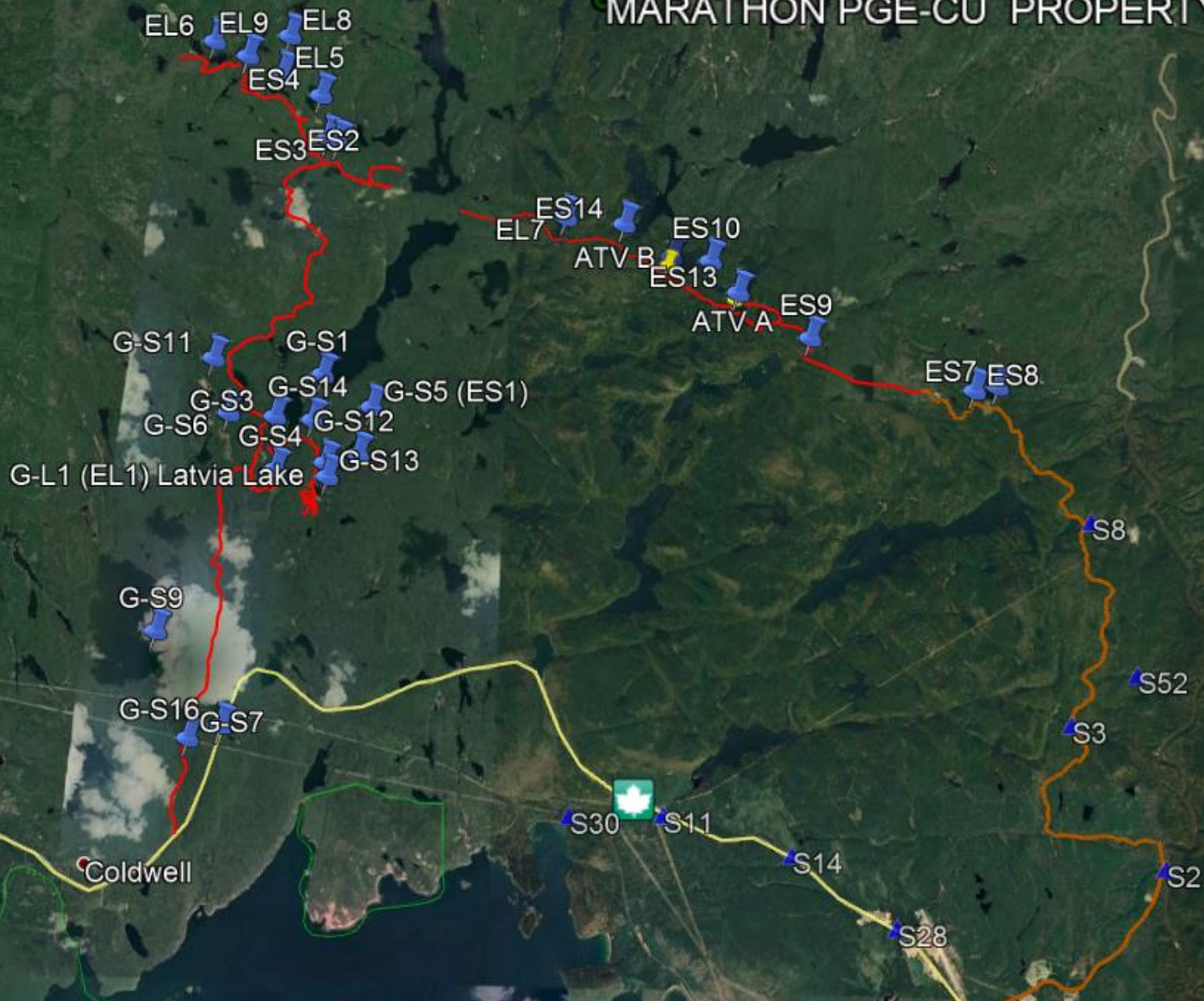
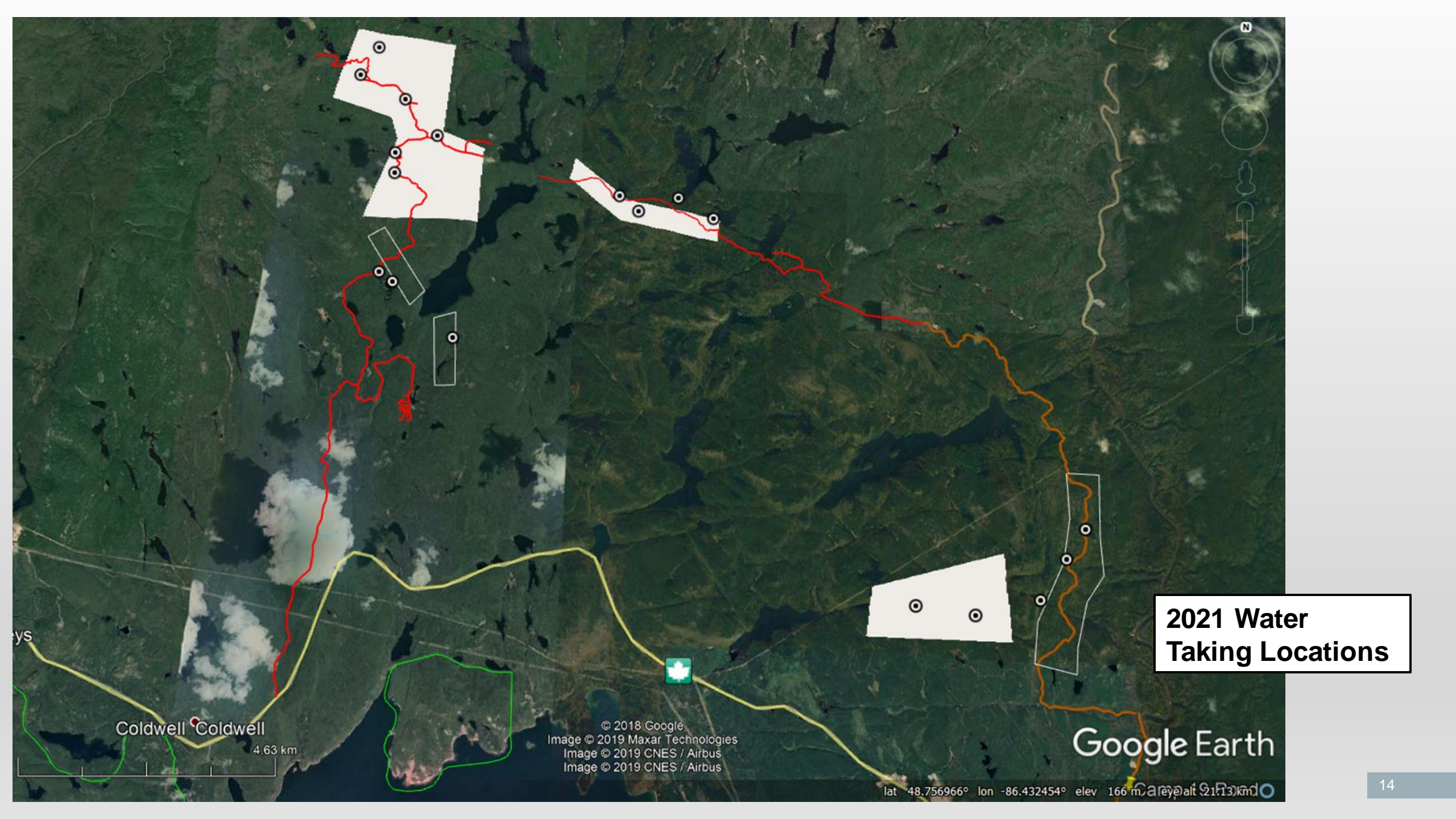


Image © 2019 CNES / Airbus  
Image © 2019 Maxar Technologies  
© 2018 Google  
Image © 2019 CNES / Airbus

Google Earth





**2021 Water  
Taking Locations**

Coldwell Coldwell  
4.63 km

© 2018 Google  
Image © 2019 Maxar Technologies  
Image © 2019 CNES / Airbus  
Image © 2019 CNES / Airbus

Google Earth

lat 48.756966° lon -86.432454° elev 166 m

- We continue to prepare for 2021 work programs, while monitoring latest developments around COVID-19 and financial markets. Because of the uncertainty at this time workplans, timelines and activities may change.
- Recommend a follow-up call in May to provide status on the proposed programs.
- As always, email <email address removed> or phone <contact information removed> if you have any questions. Or email <email address removed> or phone <contact information removed>

Questions/Comments?



# GENERATION PGM

## EXPLORATION UPDATE

December 2020



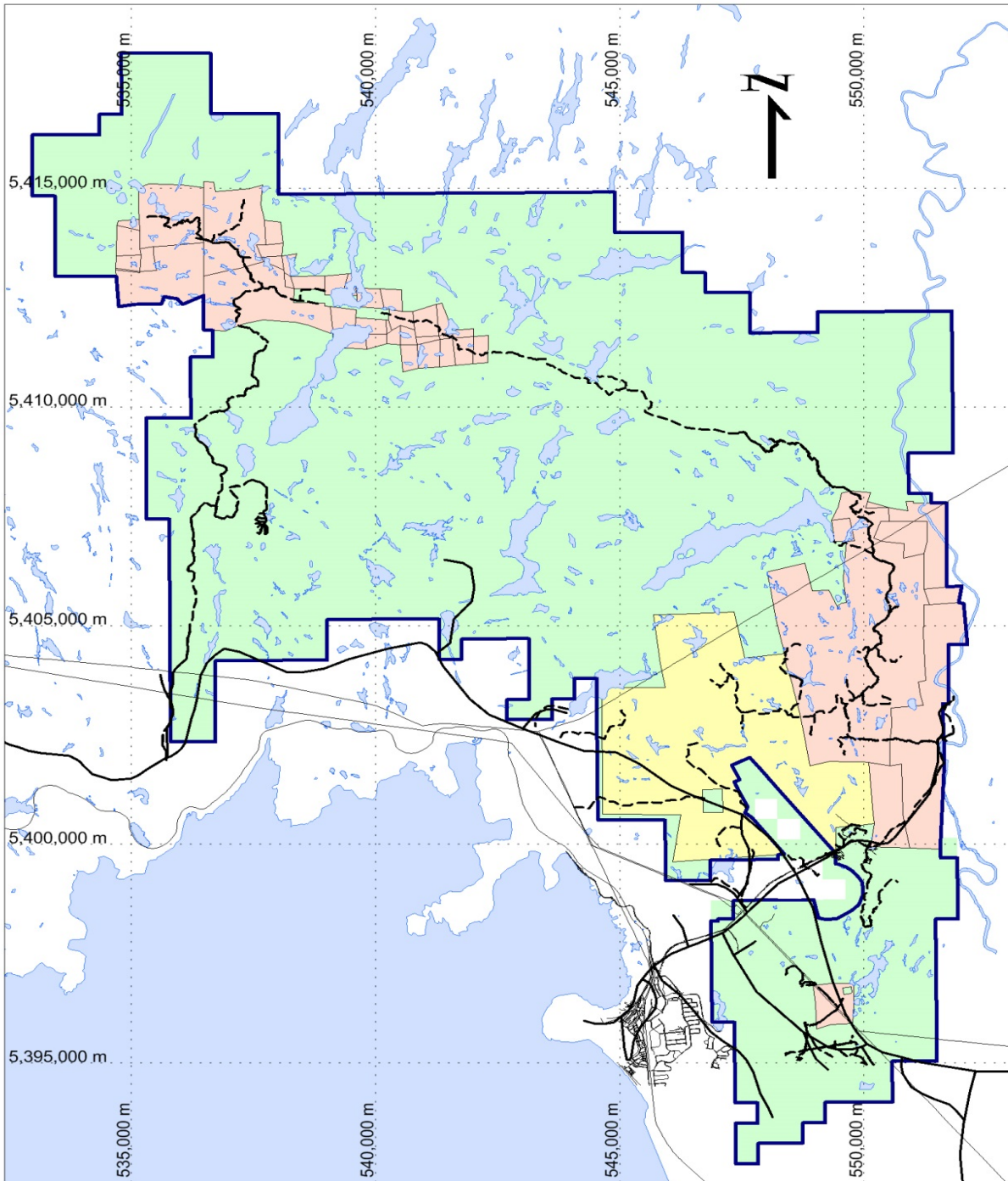


- Marathon PGM Property
  - Sally
  - Boyer
  - Marathon
- 2020 Work Program – complete
- 2021 Work Program – proposed
- Environmental Permitting
- Environmental Mitigation and Monitoring

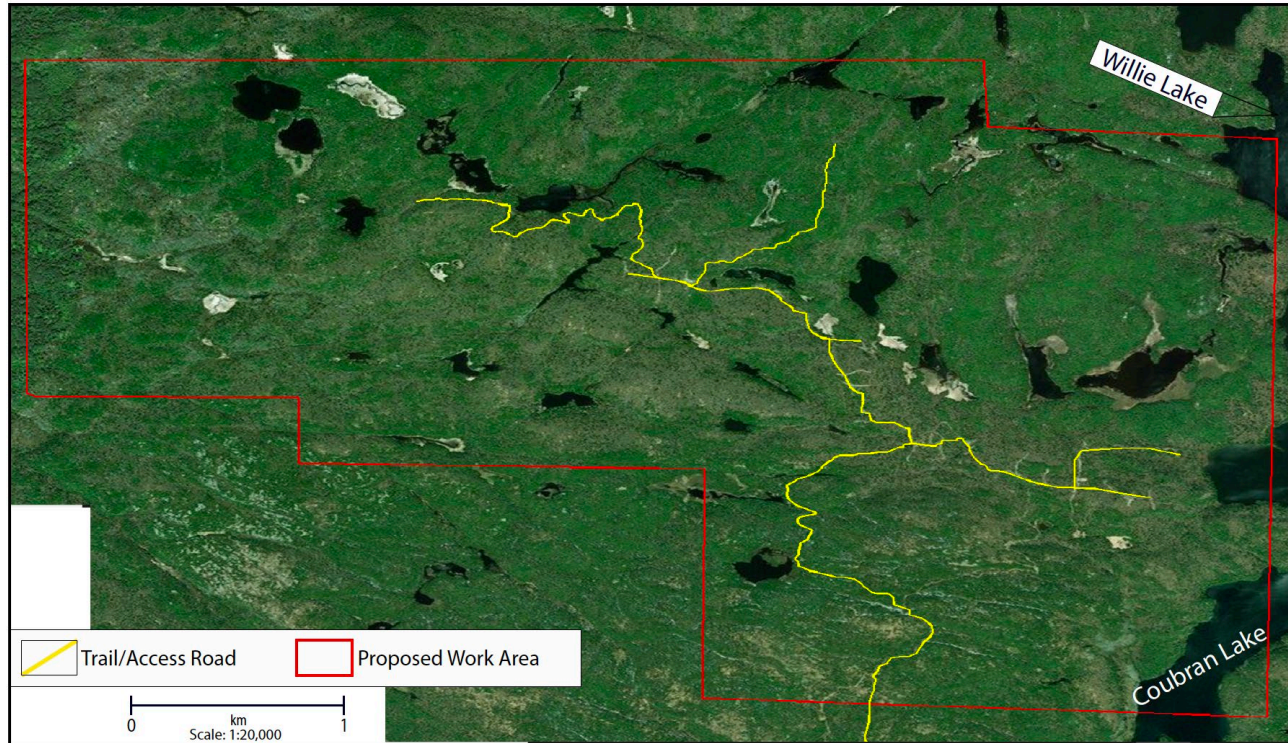


## MARATHON PGM PROPERTY

- Conversion of legacy claims to Lease CLM509 planned to be completed by 2021 (yellow)
- No other changes planned for the property boundary, claims or leases in 2021







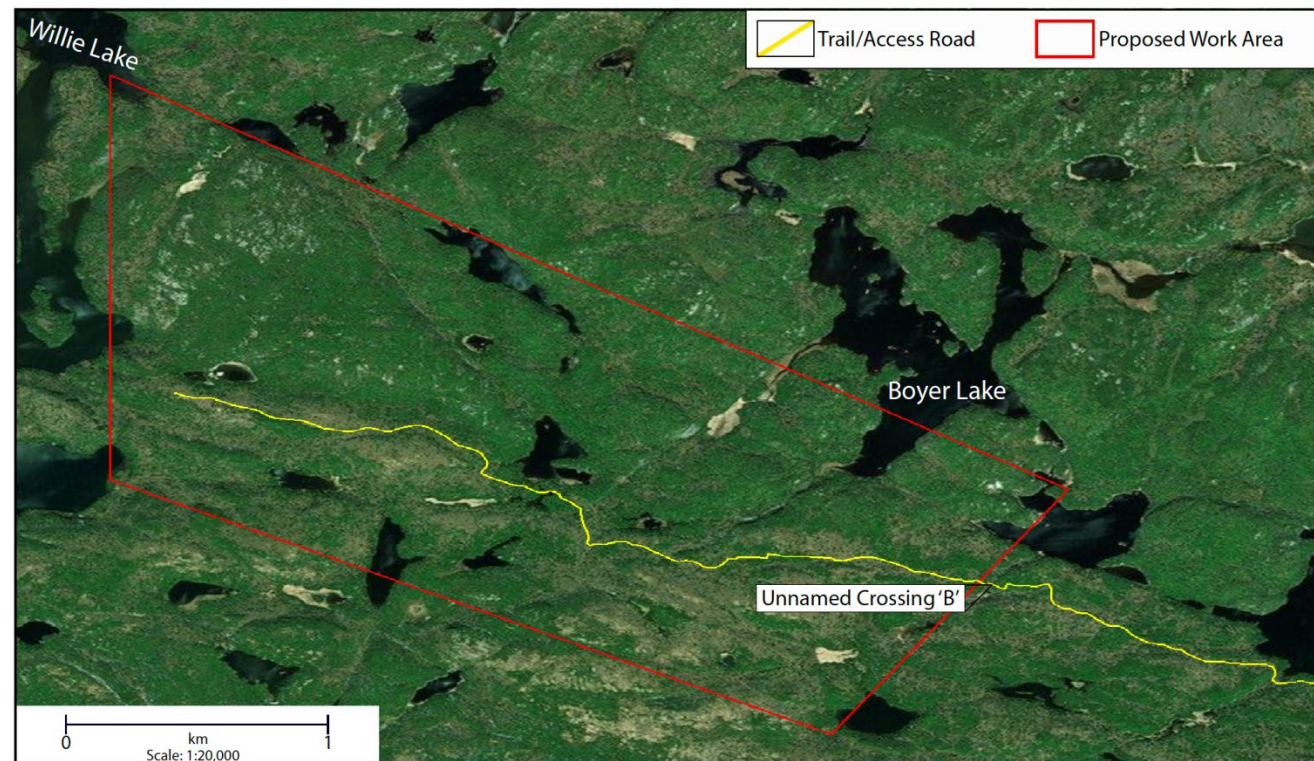
- Sally Deposit is located 15 km north west of the Marathon deposit and is accessed by the Geordie trail
- Includes a trail network (yellow)



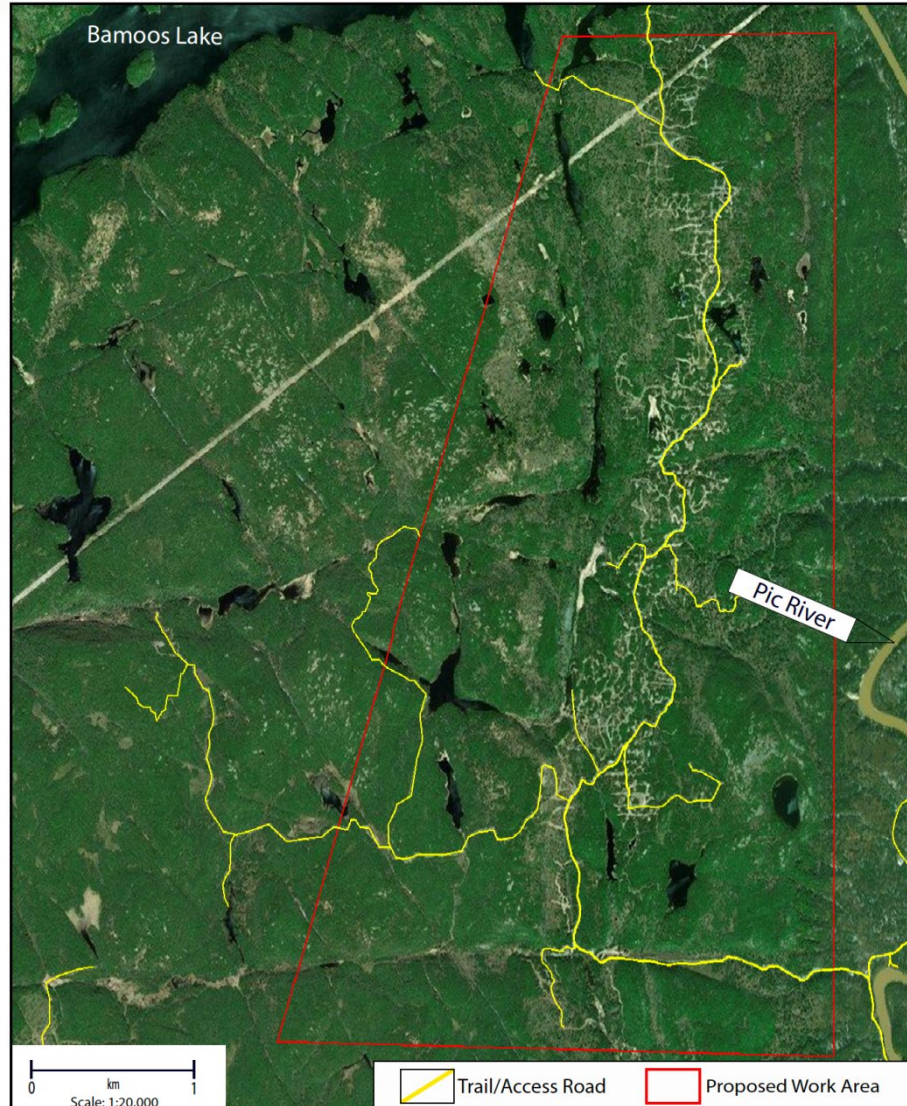




- Boyer showing is located 11 km to the north west of the Marathon Deposit along the outer margin of the Complex
- Includes open stripped areas from 2019







- The Marathon area is bisected by the Pic River and is the site of the planned Marathon open pit mine
- Includes open stripped areas from 2020





# 2020 WORK PROGRAM

GENERATION PGM

Completed the 2020 exploration program in October

- Magnetotelluric geophysics at Marathon, Sally and Four Dams
- 5,000 m of diamond drilling at Marathon
- Surface mapping, prospecting and stripping at Marathon





**No field activities planned until Summer 2021.**

**All plans are tentative and subject to pending 2020 results,  
Board approvals and financing.**

**An update with specific 2021 exploration activities based on  
approvals will be provided in April 2021.**



## JOBS

- Exploration requires geologists, geotechnicians, core cutters and general labour
- Job postings are provided and community members are prioritized in hiring process

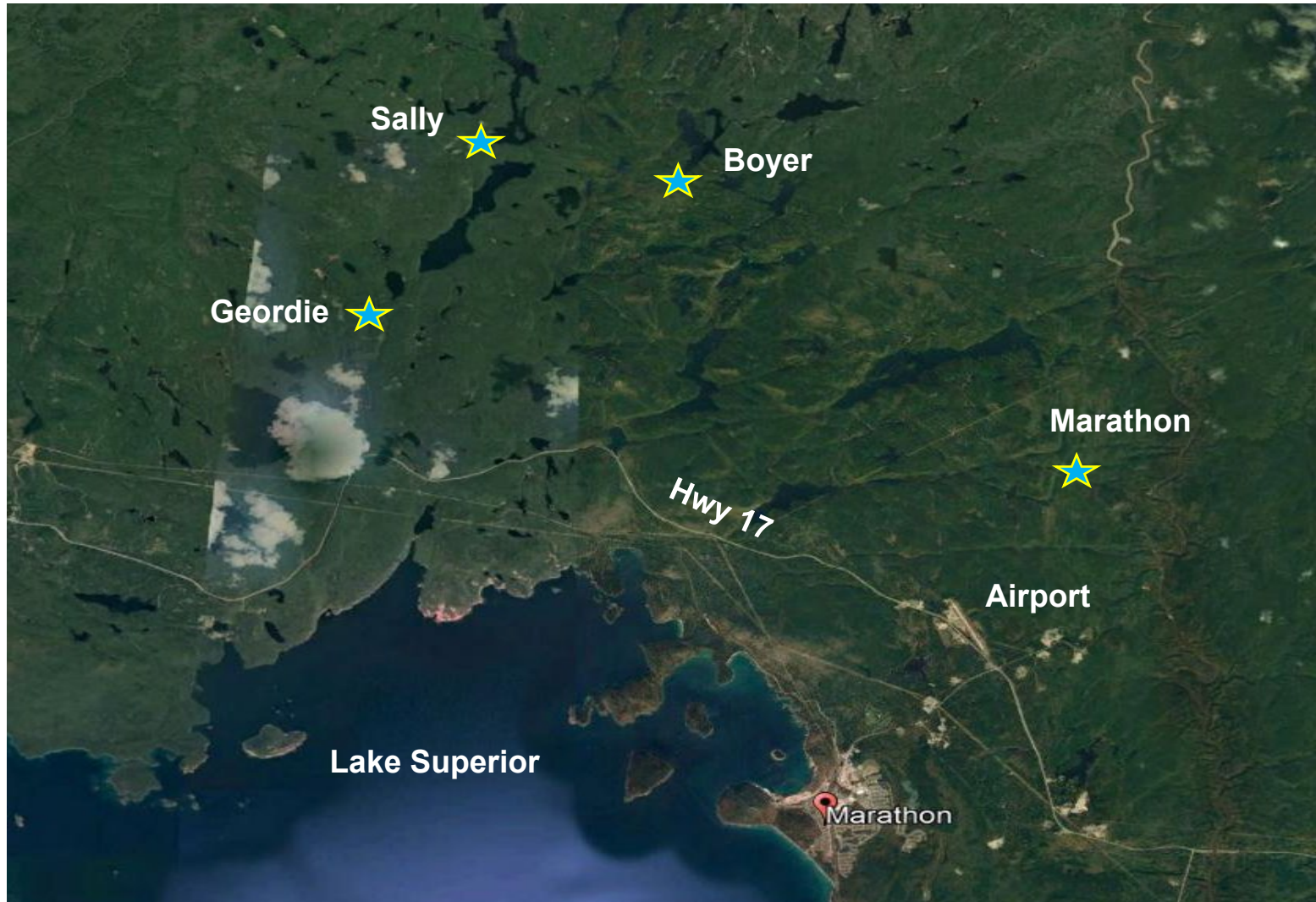
## CONTRACTS:

- 2020 contracts: \$700,000 in drilling contracts and \$100,000 in earthworks
- Community contacts included in RFPs
- Indigenous ownership and JVs are prioritized

## ENVIRONMENTAL REVIEW AND MONITORING

- Report sharing and third-party capacity funding
- Committee meetings and community updates
- Direct participation in seasonal environmental monitoring and site inspections





- Exploration activities are planned to begin in May and be completed by November
- One to three drills could be utilized to complete the exploration program
- Sally drilling would be helicopter supported but all other activities and locations would be accessed by ground using ATVs and UTVs



## Sally

- Map and strip prospective areas east of the deposit
- Soil sampling program infilling underexplored area east of Sally
- Drilling the geophysical target and western extension
  - Borehole EM survey

## Boyer

- Continue to surface field map and prospect for 2.5 km west of current showings.
  - Complete outcrop mapping/sampling from 2019

## Marathon

- Complete outcrop mapping/sampling from 2020



## Blasting at Sally Deposit

- Geordie trail is currently impassible for UTV and heavy equipment and has become a safety concern.
- Due to the inaccessibility and lack of material near the area of concern a portion of outcrop will need to be leveled by blasting.
- The material will remain on site and be used in place to create a passible trail.
- The trail will continue to be only accessibly by ATV/UTV and heavy equipment.

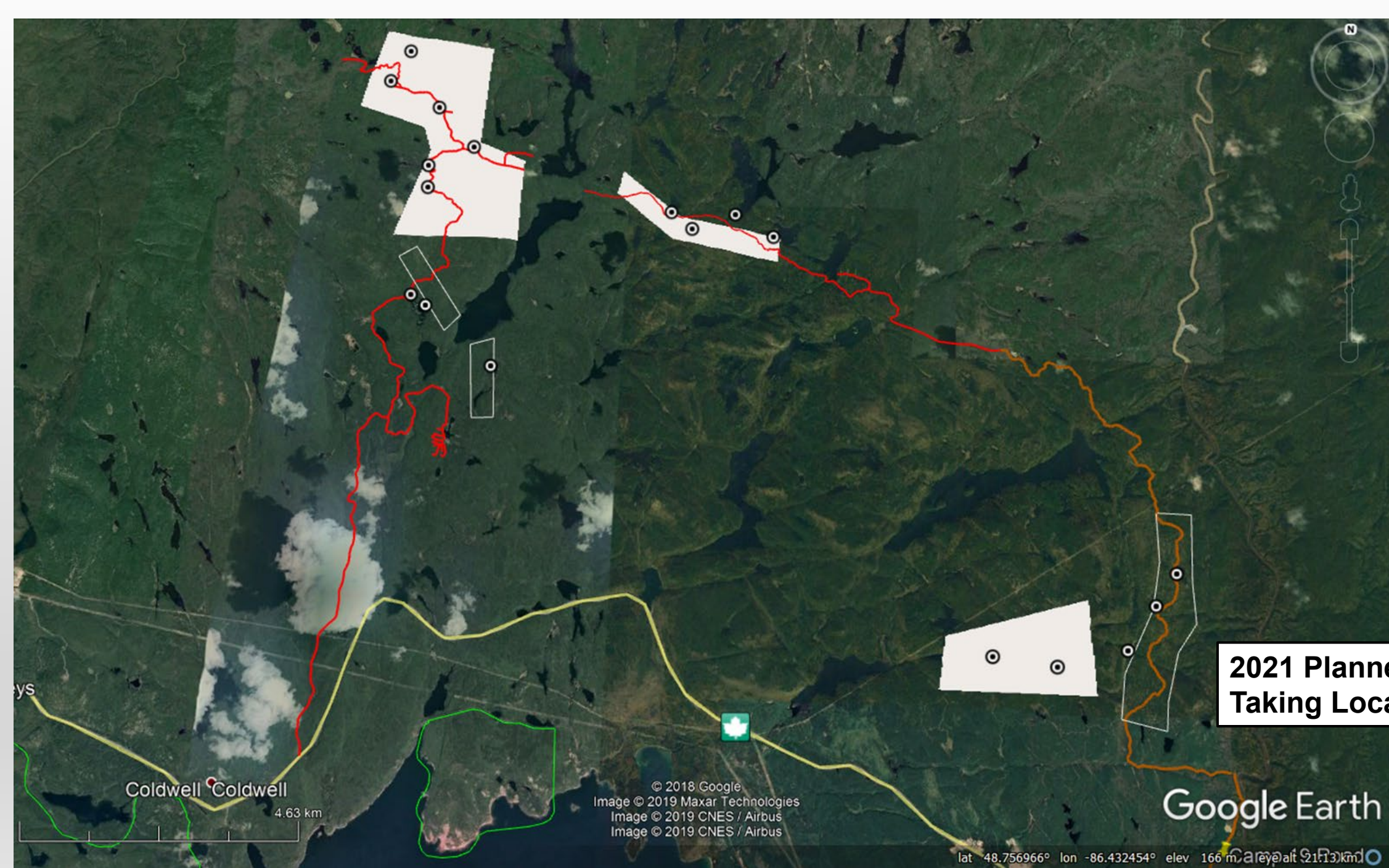






- Four **Permits to Take Water** applications filed in 2020 were delayed until May of 2021. They are for potential drill programs at exploration zones (Marathon, Boyer, Sally and Geordie). Up to 100,000L/day with an average of two drills working per zone at any one time
- Annual Authorization for equipment to ford streams where ATVs and low water crossings are in place in Boyer area.





**2021 Planned Water Taking Locations**





- **Water Monitoring:** Flow stations installed at major watershed outlets (8 locations) and Boyer, Marathon and Sally exploration areas. Reduced program at Geordie zone.
- **Mitigation Plan:** PGM has put measures in place to minimize any impacts to endangered species including Woodland Caribou Habitat, Long-eared Bat and Little Brown Bat.
- **Environmental Site Inspections:** inspect trails, bridges, water crossings, aggregate pit and other aspects of property to ensure no degradation is occurring. Continue with some level of baseline studies (assists with monitoring site conditions).
- **Site Remediation:** Approximately \$15,000 annually to infill stripped areas, seed and remodel drill pads.



# MARATHON PGE-CU PROPERTY

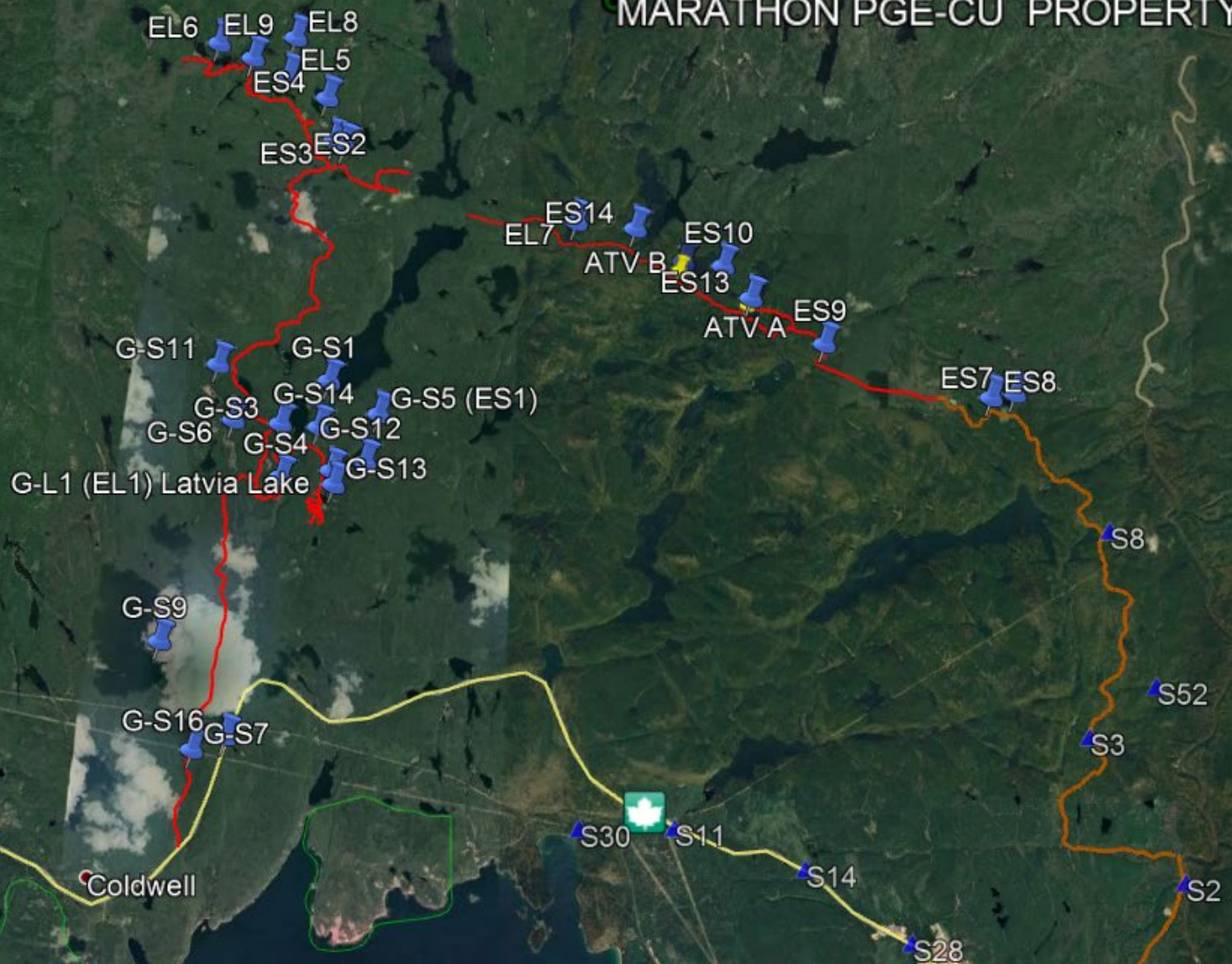


Image © 2019 CNES / Airbus  
Image © 2019 Maxar Technologies  
© 2018 Google  
Image © 2019 CNES / Airbus

Google Earth

- We continue to prepare for 2021 work programs, while monitoring latest developments around COVID-19 and financial markets.
- No field work is planned until Summer 2021
- We are available to formally present this information or to discuss any questions or comments.
- Please email [jmcbride@genpgm.com](mailto:jmcbride@genpgm.com) or phone 807-229-9214



Thank you  
Migwetch





## **Pays Plat Virtual Community Consultation – December 17, 2020**

### Generation PGM 2021 Exploration Plan

**Participants:** 4 (GenPGM), 1 (Ginny Michano - PP)

**Presenters:** J. McBride

**Meeting Notes & Covered Topics:** Proposed exploration work plan for the 2021 field season

-Marathon PGM Property with some minor changes in claims converted to leases

-Individual work areas that may have exploration activities in 2021 (maps)

-Work completed in 2020

-Areas that typically require seasonal employment: Geologists, geotechnicians, core cutters, general labourers. Contracts typically required include drilling, stripping and trail maintenance, geophysics

-Budget in place in March, have community conversations in April on the plan in which communities have one week to review and put together an RFP. The RFP will be reviewed by company and will have decisions in hopefully two weeks.

-Each prospective field location (Marathon, Boyer, Sally) given list of potential exploration activities

-Mentioned the PTTW that was applied for in 2020 and the plan to have it active for 2021-2022

-Environmental monitoring and surface sampling (water sampling and how communities can come be involved and participate in the process)

#### **Q&A period:**

-John explained what “stripping” is for clarification on the work associated with trenching

-Ginny expressed interest in stopping by the Exploration office to get a better scope of the project and interest in a site visit in the Spring

Q: What kind of bridges are onsite? Permanent or temporary?

-Highway grade 30 tonne bridges because ministry requires but bridges are temporary and when we move off-site we would have to remove those bridges and water crossings will be re-established

Q: For every dollar a drill company gets paid, how much goes to fuel/employees/maintenance?

-Large portion goes towards wages and fuel, a drill requires a lot of fuel that runs 24/7


Q: Diesel? Clear or coloured?

Q: Who supplies the core boxes and core racks?

Q: If mine project goes ahead how would that effect exploration programs?



### BN-PPFN and exploration

 **Tabatha LeBlanc** <email address removed>  
4:04 PM

To: Kevin Sherlock; Cathryn Moffett; Ruben Wallin (ruben.wallin.wesc@outlook.com) Cc: John McBride; Chanelle Boucher

FYI

John and I had a quick conversation with BN (Debi Bouchie, Ken Ogima, Vincent Nabigon, Chief Michano) at 11:30am ET this morning and gave them a heads up that we are contemplating exploration drilling in mid-February, pending board approval and reviewed what the program could be. They were very receptive and helpful, stating that they are definitely interested in contract opportunities but might not have the capacity to participate in February. Vincent and Ken are going spend the next week to investigating options and get back to us confirming if BN have capacity to participate and how.

I did follow up with Debi Bouchie (BN-Director of Operations) immediately afterwards by phone and asked her from a business perspective and not political, if they could consider working with Economic Development of PPFN or Métis groups, especially considering BN works together with 5 other FNs through Supercom Industries. She said that for our Project, it is strictly in BN traditional territory and to work with another community undermines their land claim and could give credibility to other communities. She understands that GenPGM has consultation requirements stipulated by gov't but BN will not work with others.

Looks like we will have to piecemeal some contracts to ensure PPFN and others are given the opportunity to participate in exploration. Perfectly timed, is John's breakdown of exploration activities, thanks to Kevin's suggestion we will have to figure out how to carve out work for PPFN EcDev and other pieces for Métis. As much as possible, contract opportunities and not participation payments is the way to go because the funding can come out of financing recently received and not our EA budget. Kevin/Ruben, hopefully something can be tentatively identified during your meeting with the EcDev group next week.

Just keeping everyone in the loop and putting these meetings on record.

Thanks,  
Tabatha

## **Pawgwasheeng Economic Development Corporation – Partnerships & Brief Service Descriptions**

### **Norpro**

<https://norpro.ca/wp-content/uploads/2020/11/NorproServicesBooklet-2020-11-10.pdf>

- Security
- Technology/Information solutions
- Facility Management
- Business Support
- First Aid Training
- First Responder Training
- Mine Rescue Training

### **Superior Strategies**

Superior Strategies Training & Consulting Services:

Various Health & Safety Services, Including On-Site Safety Support

Various Consulting Services, Including Economic Development Services

Technical Services, Including Professional Services, Such as Contract Administration

Superior Strategies Supply & Service:

Supply of Various Safety/Industrial, Sanitary & Janitorial Products, including our own Private Label (Warrior Products)

Various Ground Support Services & Products

The Office Supplier:

Supply of various Office Supply Products, such as consumables, furniture and equipment

### **Tom Jones Corporation**

- Earthworks
- Pile Driving
- Concrete Forming, Placing and Finishing Services
- Hoisting and Crane Services
- Barge and Marine work
- Pre- Engineered Buildings
- Camp Facilities- Set Up
- Temporary Office Facilities- Set Up
- Water Treatment Construction
- Maintenance Facilities (Buildings and Garages)
- Assay and Met Labs (Design Build Construction)

### **Horizon North/Outland**

- Facilities Management and Operation
- Workforce Accommodations
- Modular Solutions
- Forestry Services
- Energy Services

### **North Shore Forest Products**

- Forestry and Clearing
- Road Building and water crossing installations (culverts and bridge installations)
- Aggregates and aggregate delivery
- Road Maintenance

### **Staal Utility**

- directional drilling
- hydro vac services
- civil works
- utility work (fibre )
- equipment rentals
- rail work
- Mechanical service (heavy duty equipment and truck and coach )

### **Workforce**

- Temporary and Permanent Labour Supply with focus on mining and mineral resource sector for Northern and Northwestern Ontario
- Project Personnel
- Clerical and Payroll Functions
- Management/Executive Search with Calstone Search Group (a division of Workforce Inc.)

### **DST Engineering**

- Environmental, geotechnical and materials testing (Quality Assurance and Quality Control) for aggregates, concrete, etc.

### **TDC Contracting**

Our services include, but are not limited to the following

- Line Cutting
- ROW clearing
- Road, helipad and trail construction
- Site clearing
- Fencing
- Hand brushing/felling



## **TBT Engineering**

Technical Services, Engineering Services, building sciences, professional services (project management), TBT surveyors

## **TECHNICAL SERVICES**

### **DRILLING SERVICES**

- Reg 903 Certified Groundwater Monitoring Well Installations
- Reg 903 Certified Groundwater Monitoring Well Decommissioning
- Geotechnical Subsurface Condition Investigations
- Roadway / Highway / Pavement Investigations
- Environment Soil Sampling & Investigations
- Aggregate Source Investigations (ASIs)
- Rock Quarry Investigations
- Environmental & Geotechnical Marine Investigations
- Construction Site Assessments
- Hazard Assessments

### **MATERIAL TESTING & INSPECTION**

- Laboratory Services
- Grain Size Analyses
- Atterberg Limits
- Unconfined Compression Soil Testing
- Consolidation Testing
- Direct Shear Testing
- Asphalt Testing – Super Pave
- Concrete Testing
- Concrete Admixture Testing
- Aggregate Physical Property Testing
- Soil and Aggregate Permeability
- Point Load Testing – Rock
- Training
- Petrographic Analysis
- Rock Core Logging
- Certifications
- Canadian Standards Association
- Canadian Council of Independent Laboratories
- Ministry of Transportation – RAQS

### **CONSTRUCTION CONTRACT ADMINISTRATION**

- Construction Management
- Construction Administration
- Construction Inspection

- Construction Documentation
- Construction Quantity Verification
- Construction Dispute Resolution
- Construction Quality Verification – Workmanship
- Construction Quality Verification – Material Testing

# GENERATION PGM

## EXPLORATION UPDATE

January 2021



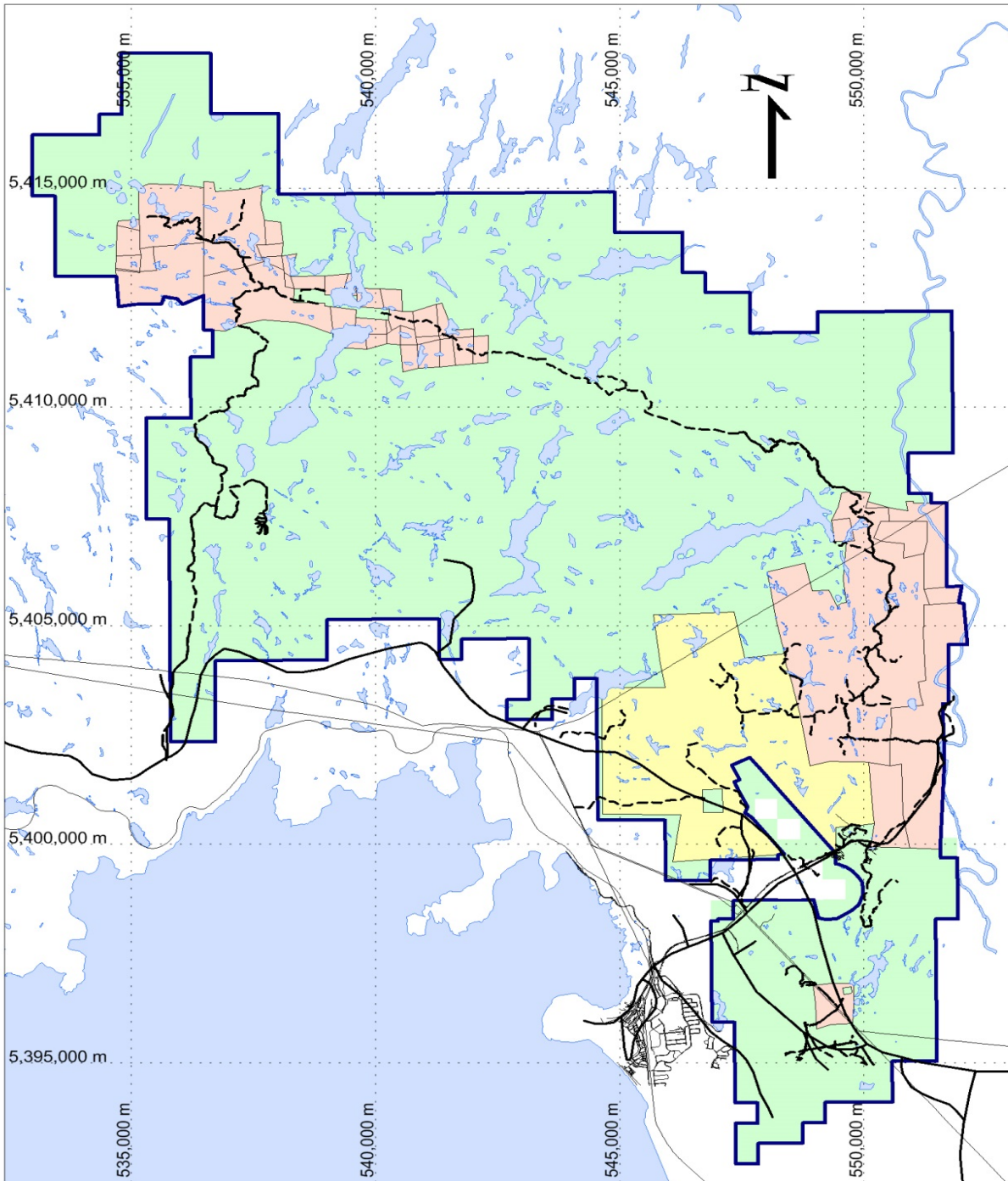


- Marathon PGM Property
  - Sally
  - Boyer
  - Marathon
- 2020 Work Program – complete
- 2021 Work Program – proposed
- Environmental Permitting
- Environmental Mitigation and Monitoring

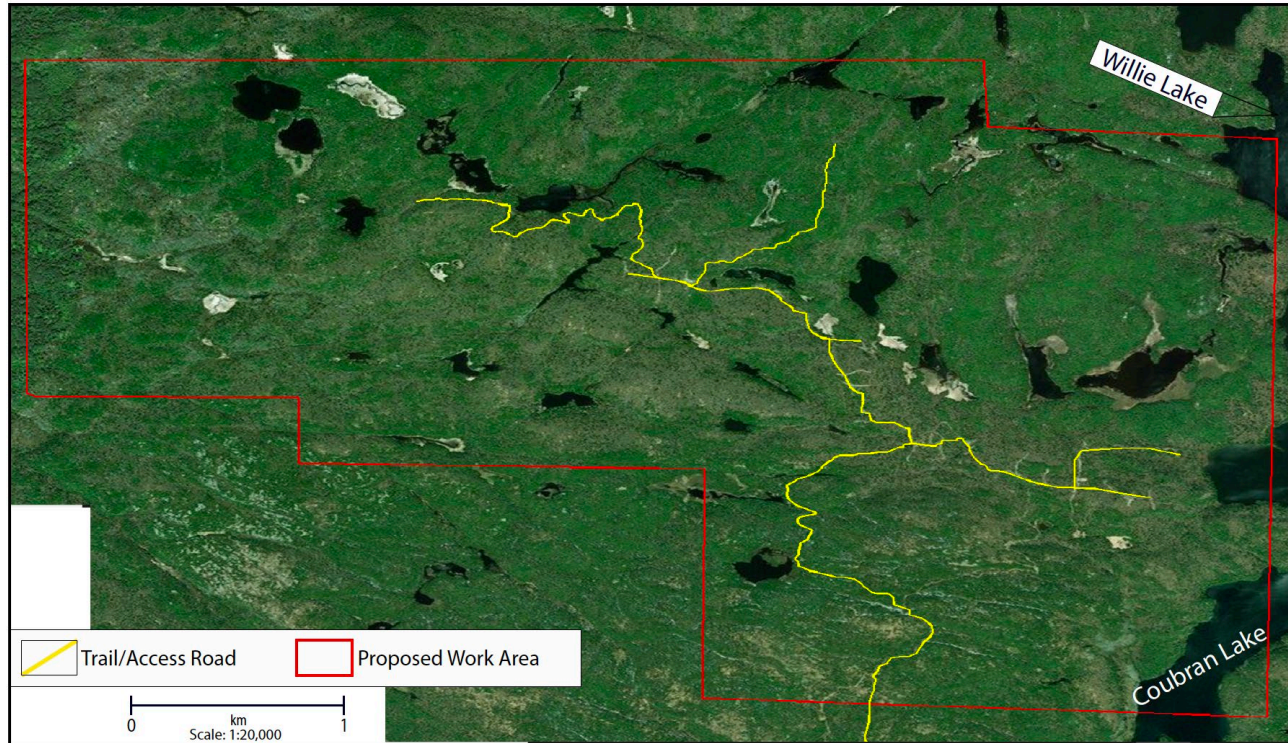


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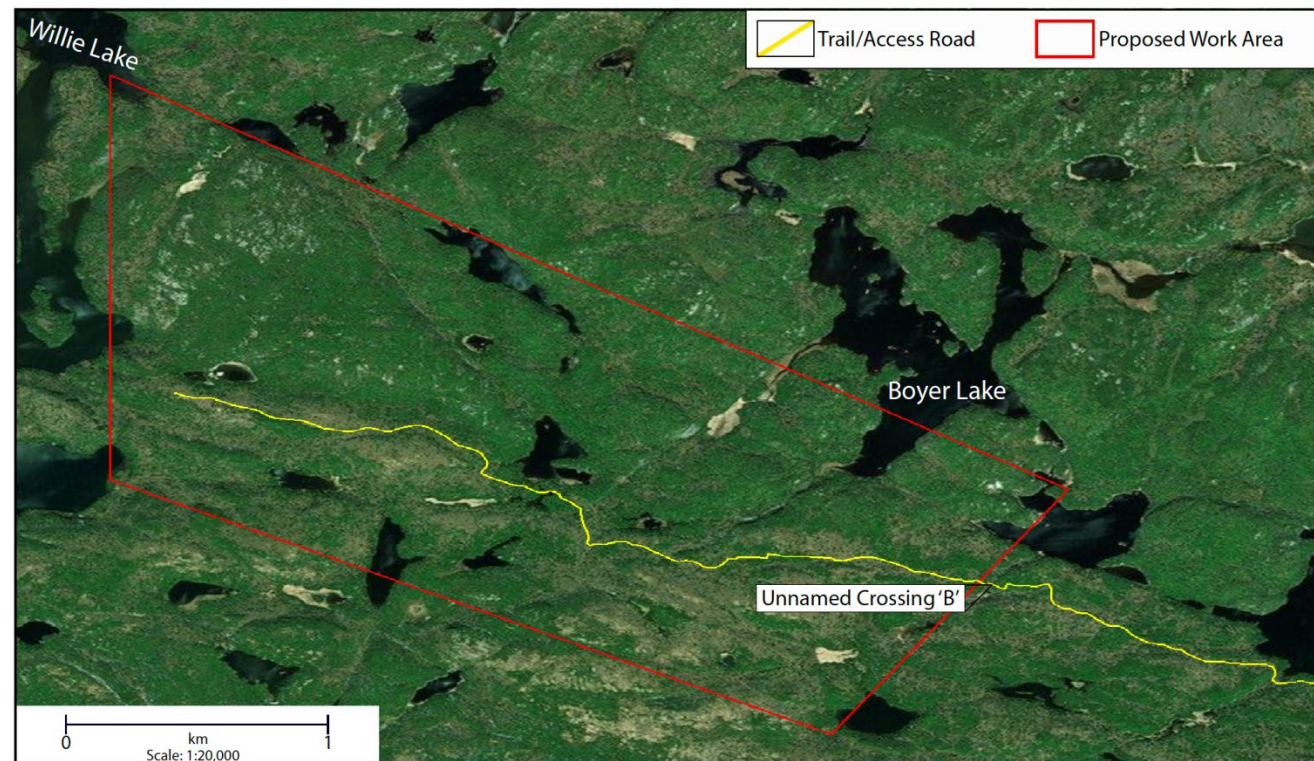
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- Includes a trail network (yellow)



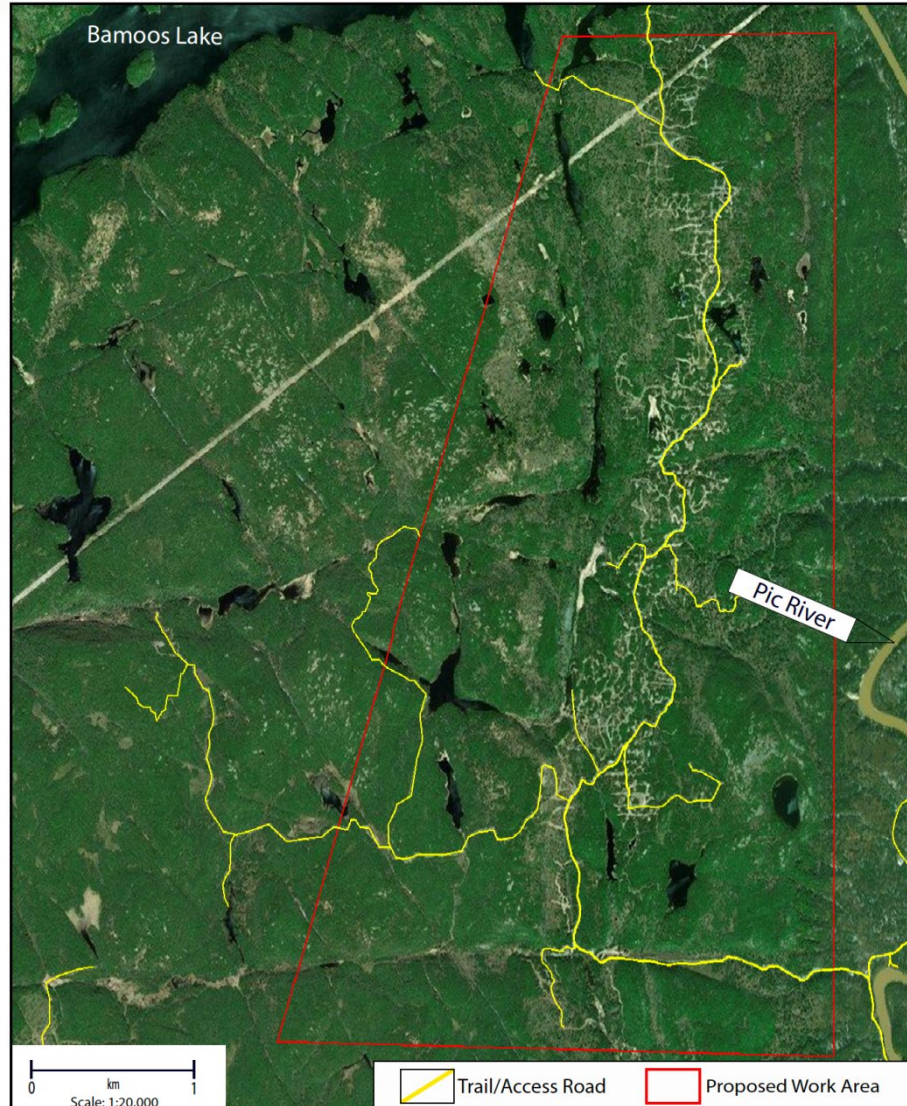




- Boyer showing is located 11 km to the north west of the Marathon Deposit along the outer margin of the Complex
- Includes open stripped areas from 2019







- The Marathon area is bisected by the Pic River and is the site of the planned Marathon open pit mine
- Includes open stripped areas from 2020





# 2020 WORK PROGRAM

Completed the 2020 exploration program in October

- Magnetotelluric geophysics at Marathon, Sally and Four Dams
- 5,000 m of diamond drilling at Marathon
- Surface mapping, prospecting and stripping at Marathon





**All plans are tentative and subject to pending 2020 results, Board approvals and financing.**

**An update with specific 2021 exploration activities based on approvals will be provided in April 2021.**

## JOBS

- Exploration requires geologists, geotechnicians, core cutters and general labour
- Job postings are provided and community members are prioritized in hiring process

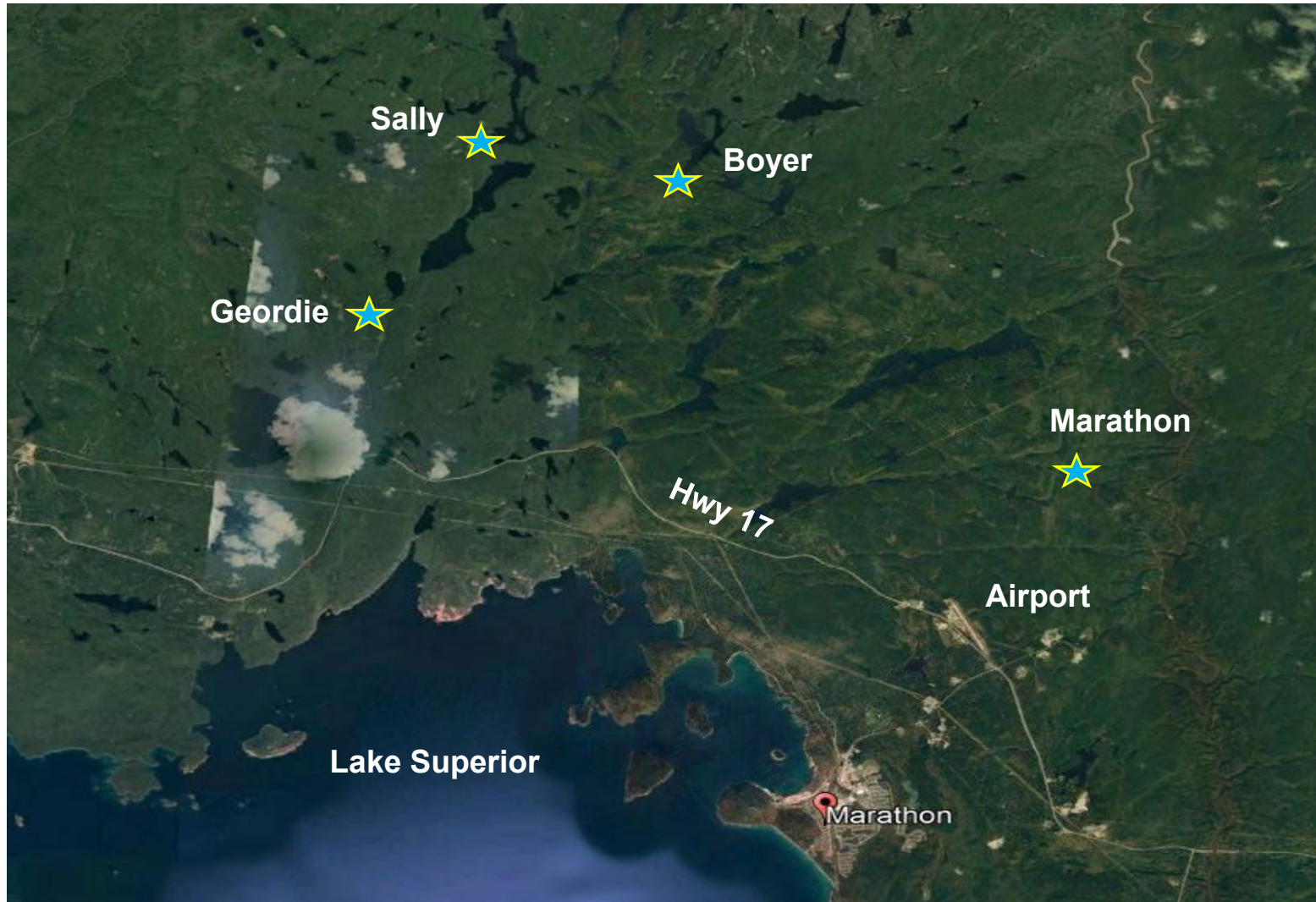
## CONTRACTS:

- 2020 contracts: \$700,000 in drilling contracts and \$100,000 in earthworks
- Community contacts included in RFPs
- Indigenous ownership and JVs are prioritized

## ENVIRONMENTAL REVIEW AND MONITORING

- Report sharing and third-party capacity funding
- Committee meetings and community updates
- Direct participation in seasonal environmental monitoring and site inspections



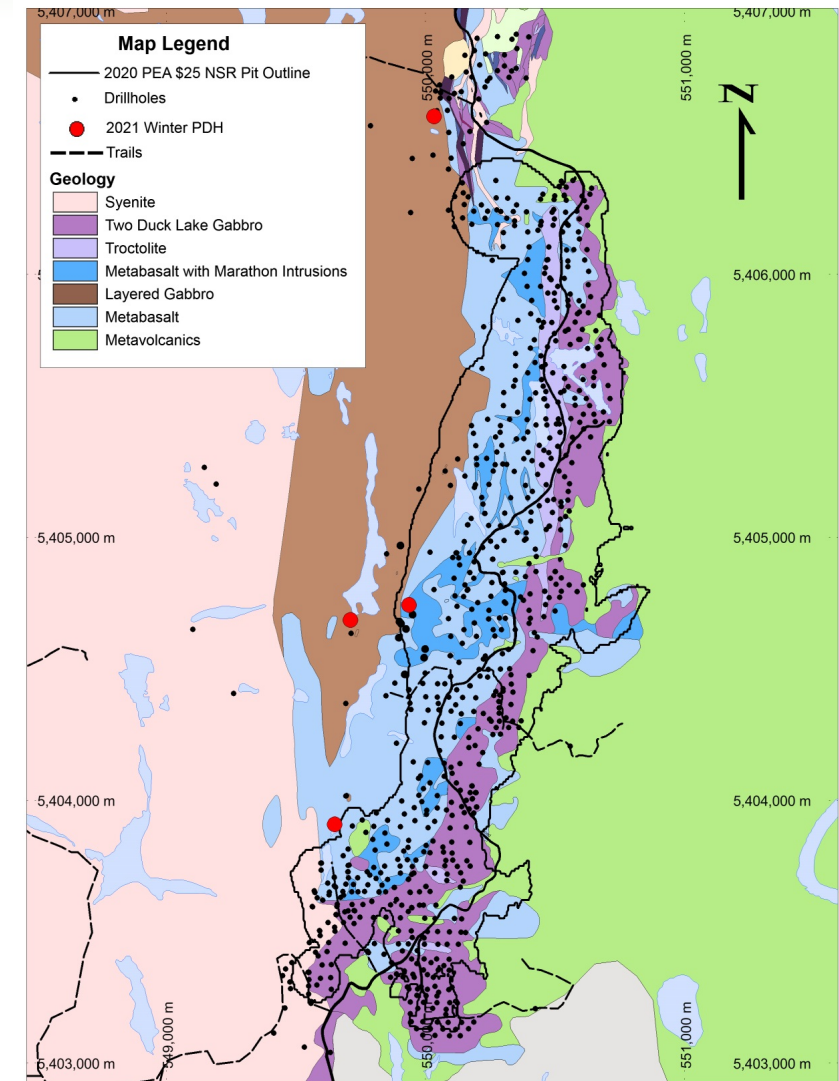
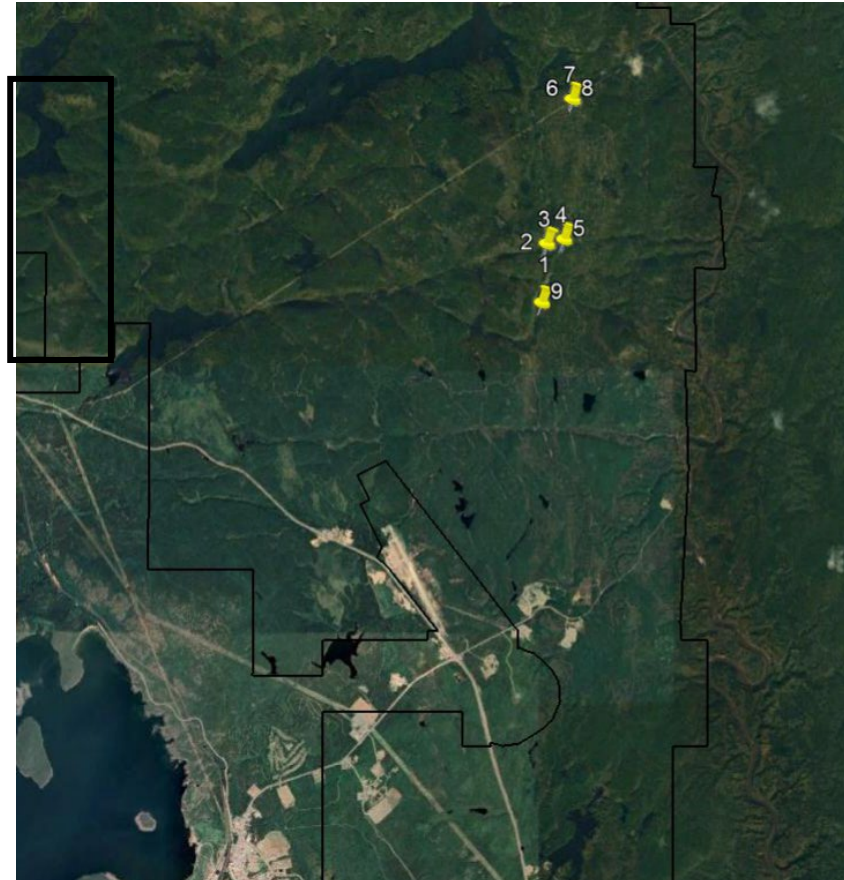


- Winter drill program is proposed for February - March
- Summer field activities are planned to begin in May and be completed by November
- One to three drills could be utilized to complete the exploration program
- Sally drilling would be helicopter supported but all other activities and locations would be accessed by ground using ATVs and UTVs



## Marathon

- 3,500 m of diamond drilling
- 9 proposed holes
- 3 target areas





## Sally

- Map and strip prospective areas east of the deposit
- Soil sampling program infilling underexplored area east of Sally
- Drilling the geophysical target and western extension
  - Borehole EM survey

## Boyer

- Continue to surface field map and prospect for 2.5 km west of current showings.
  - Complete outcrop mapping/sampling from 2019

## Marathon

- Complete outcrop mapping/sampling from 2020



## Blasting at Sally Deposit

- Geordie trail is currently impassible for UTV and heavy equipment and has become a safety concern.
- Due to the inaccessibility and lack of material near the area of concern a portion of outcrop will need to be leveled by blasting.
- The material will remain on site and be used in place to create a passible trail.
- The trail will continue to be only accessibly by ATV/UTV and heavy equipment.

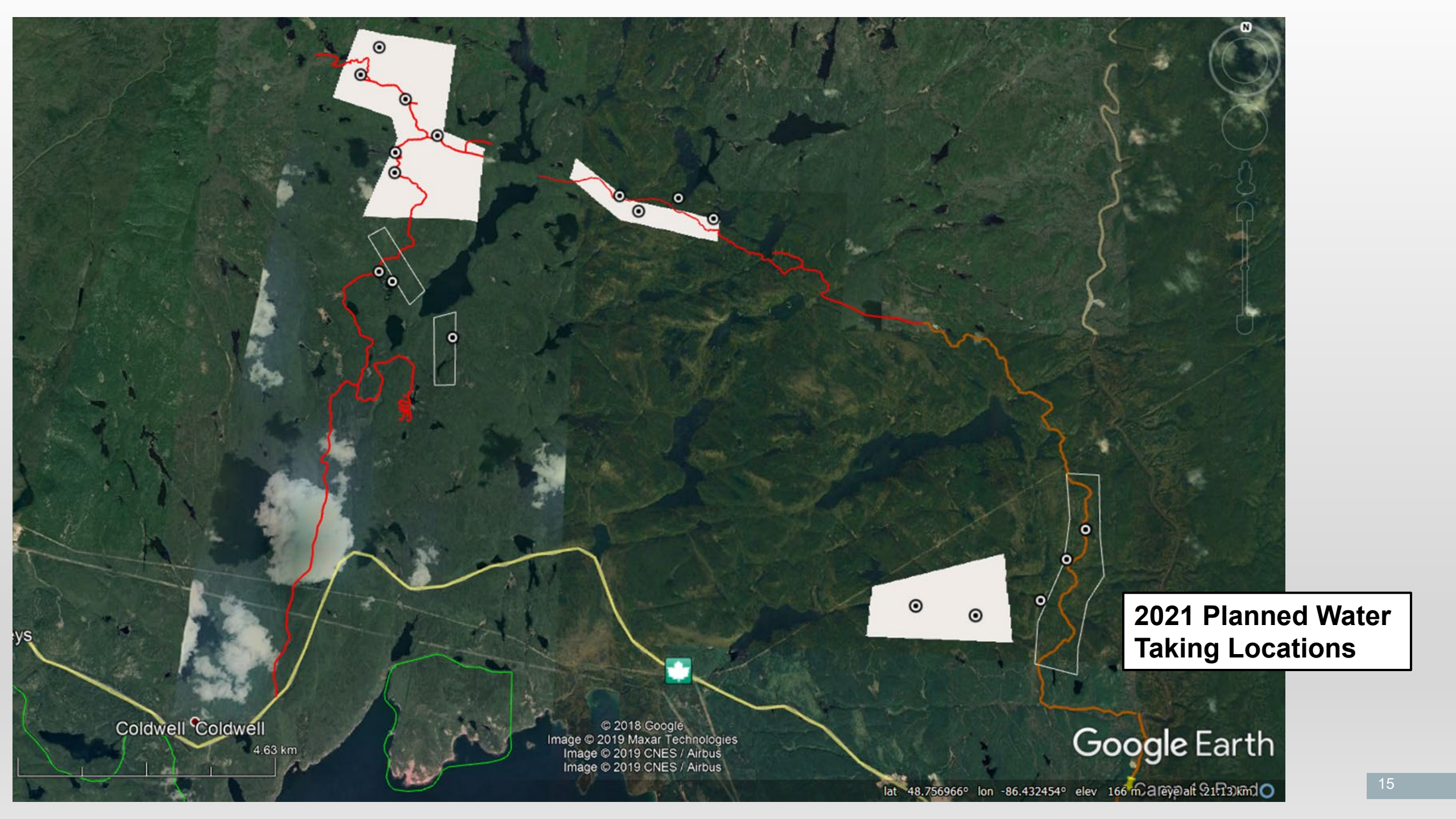






- Four **Permits to Take Water** applications filed in 2020 were delayed until May of 2021. They are for potential drill programs at exploration zones (Marathon, Boyer, Sally and Geordie). Up to 100,000L/day with an average of two drills working per zone at any one time
- Annual Authorization for equipment to ford streams where ATVs and low water crossings are in place in Boyer area.





**2021 Planned Water Taking Locations**

Coldwell Coldwell

4.63 km

© 2018 Google  
Image © 2019 Maxar Technologies  
Image © 2019 CNES / Airbus  
Image © 2019 CNES / Airbus

Google Earth

lat 48.756966° lon -86.432454° elev 166 m





- **Water Monitoring:** Flow stations installed at major watershed outlets (8 locations) and Boyer, Marathon and Sally exploration areas. Reduced program at Geordie zone.
- **Mitigation Plan:** PGM has put measures in place to minimize any impacts to endangered species including Woodland Caribou Habitat, Long-eared Bat and Little Brown Bat.
- **Environmental Site Inspections:** inspect trails, bridges, water crossings, aggregate pit and other aspects of property to ensure no degradation is occurring. Continue with some level of baseline studies (assists with monitoring site conditions).
- **Site Remediation:** Approximately \$15,000 annually to infill stripped areas, seed and remodel drill pads.



# MARATHON PGE-CU PROPERTY

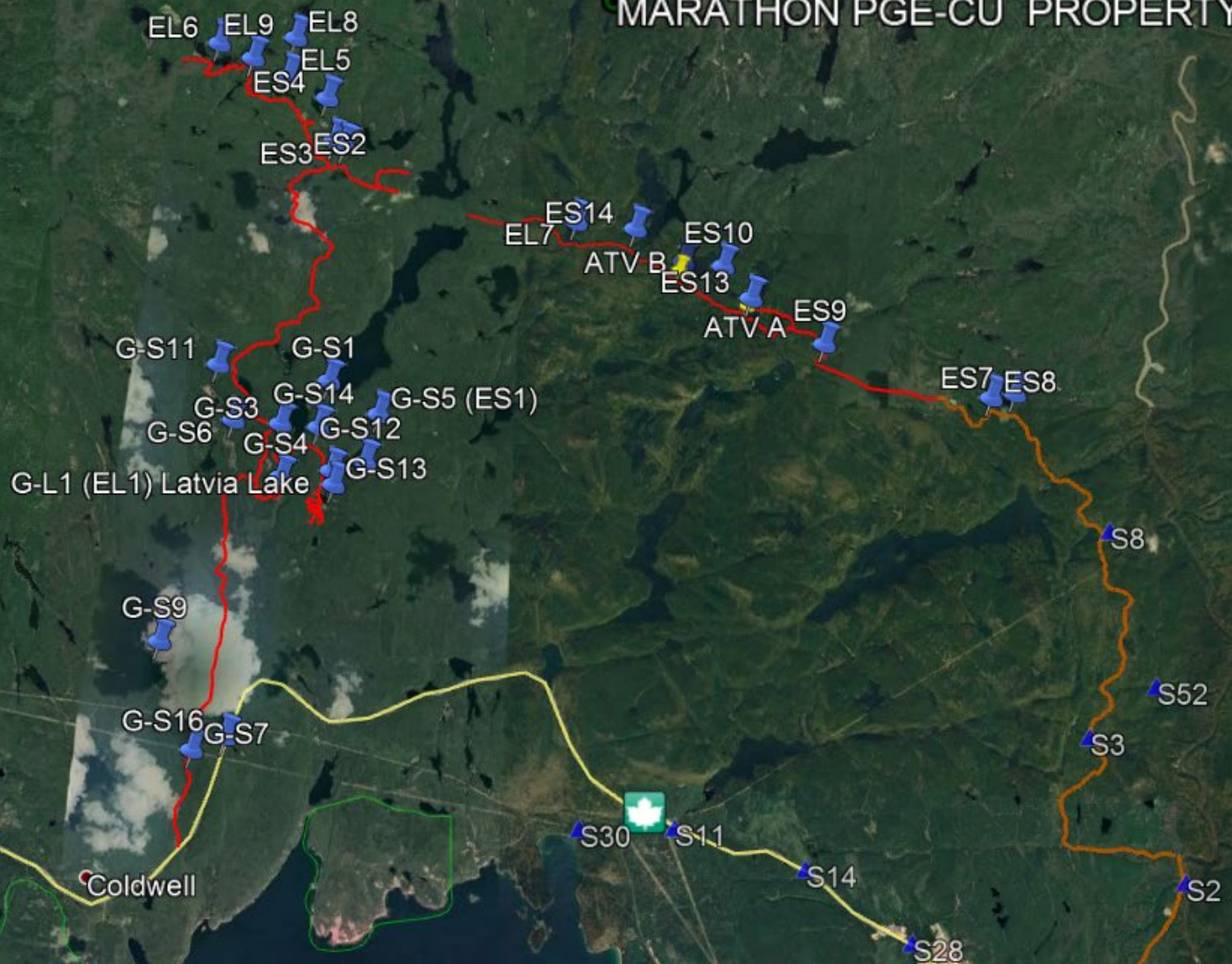


Image © 2019 CNES / Airbus  
Image © 2019 Maxar Technologies  
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Image © 2019 CNES / Airbus

Google Earth

- We continue to prepare for 2021 work programs, while monitoring latest developments around COVID-19 and financial markets.
- No field work is planned until Summer 2021
- We are available to formally present this information or to discuss any questions or comments.
- Please email <email address removed> or phone <contact information removed>





Thank you  
Migwetch



**Pays Plat First Nation  
January 14, 2021**

Economic Development and Exploration Update

|                            |  |
|----------------------------|--|
|                            |  |
| Pays Plat First Nation     | Mary Hardy, Ginny Michano, Debbie King           |
| Generation PGM             | John McBride, Chanelle Boucher                   |
| Generation PGM Consultants | Ruben Wallin, Kevin Sherlock and Cathryn Moffett |
| Joint Venture Partners     | Arthur, Rob, Sebastien, Douglas                  |

**Meeting Summary**

A discussion with PPFN economic development staff and their joint venture partners to provide an update on ongoing exploration activities and the planned Marathon Palladium Project

**1. Introductions**

**2. Exploration Update (John McBride)**

- Presentation outlining plans for 2021
- Ginny states that most community members are already working, more interested in contracts than jobs and training

**3. Project Design and Schedule (Ruben Wallin)**

- Construction 2022
- Operations 2024
- 25,000 tonnes per day
- 60 MW power
- 900 construction workforce, 450 operations workforce

**4. Community Benefits**

- Discussion regarding separation of PPFN and PEDC
- Many MOUs are in place to allow for Joint Ventures

**Follow Up:** GenPGM to provide more detailed economic details and keep PEDC up to date as contracts move forward



**From:** [Tabatha LeBlanc](#)  
**To:** [Jon MacDonald](#)  
**Cc:** [John McBride](#); [Cathryn Moffett](#)  
**Subject:** GenPGM Exploration Update  
**Date:** January 18, 2021 12:43:30 PM  
**Attachments:** [2021 Jan 15 Exploration Update.pdf](#)

---

Hi Jon,

I heard that there is another outbreak in Marathon, hopefully Schreiber is not impacted. Looking forward faster vaccine roll out!

Well I have some good news for exploration. It seems as soon as we share exploration plans for 2021, we blink and plans have shifted slightly. I guess it's a positive sign but we also don't like bombarding you with multiple emails.

Attached is the exploration update for 2021. We had originally thought the program would start in May and run into the fall, similar to our other programs over the past 4 years but we recently received investor financing. The financing comes with specific conditions around timelines and exploration targets, and in order to access these funds we have decided to split our program to do some drilling in February (winter program) and the rest over the summer months. The winter drilling program, is roughly 3,500m will focus on an exploration target near the Marathon deposit (see map slide 6 attached). Access to the site would be along existing trails and main access road. Only 1 drill is proposed, so water taking will be less than 50 cubic meters per day and not require a permit to take water. The program would start mid-end of February and be completed before spring break up, approximately 4 to 6 weeks.

The proposed winter program is dependent on status of health orders in the area and availability of equipment. If you would like to meet to discuss the proposed workplans for 2021, the winter drill program or have questions about the Project, please email or give me a call 204-995-6081. Also, we will be preparing a summary for the 2021 programs to share and will send along job postings if community members are interested in applying for positions.

Warm Regards,  
Tabatha

***Committee Meeting Tuesday January 19, 2021 @ 2pm ET***

Members: John Szura, Debbie King, Peter Hollinger, Darlene Morriseau, Ginny Michano, Drew Anwyll, Ruben Wallin, Kevin Sherlock, Cathryn Moffett, Tabatha LeBlanc

DRAFT AGENDA

Progress Update

- 1) Project: Feasibility Study and Environmental – topics tracker, 3<sup>rd</sup> party review, capacity funding, EIS documentation
- 2) Economic Development
- 3) Exploration Update – John McBride
- 4) Other topics/New Business



**Pays Plat First Nation**  
**January 19, 2021**  
Committee Meeting

|                            |  |
|----------------------------|--|
|                            |  |
| Pays Plat First Nation     | Ginny Michano, Debbie King, John Szura, Peter Hollinger, Darlene Morisseau |
| Generation PGM             | Jamie Levy, Drew Anwyll, Tabatha LeBlanc, John McBride, Chanelle Boucher   |
| Generation PGM Consultants | Ruben Wallin, Cathryn Moffett  |

**Meeting Summary**

A discussion with PPFN committee around Project Economics, Design and Schedule.

- 1. Feasibility Study (Drew Anwyll)**
  - Currently evaluating costs and schedule
  - Finalizing plant design
  - Peter asked about total costs and long term funding
  
- 2. EIS Report Addendum (Tabatha LeBlanc)**
  - Volume 1 of EIS Addendum published
  - GenPGM welcomes review and has funding available
  - Discussion around funding and IAAC participation
  
- 3. Economic Development (Ginny Michano)**
  - Good working relationship with GenPGM
  - Many MOUs in place to allow for Joint Ventures
  
- 4. Exploration Update (John McBride)**
  - Presentation outlining plans for 2021
  - Questions around invasive species
  - Invitation for community participation
  
- 5. Next Steps**
  - Capacity funding
  - Future committee meetings

**Follow Up:** GenPGM to provide more detailed economic details and keep PEDC up to date as contracts move forward

# Marathon Project and Exploration Update

## Draft Agenda

- 1) Project: Feasibility Study and Environmental – topics tracker, 3<sup>rd</sup> party review, capacity funding, EIS documentation
- 2) Economic Development
- 3) Exploration Update – John McBride
- 4) Other topics/New Business



## Feasibility and Environmental Assessment

- Draft chapters of Feasibility Study – status update
- Topics tracker created from feedback on December 3 meeting
- Volume I of Environmental Impact Statement Addendum provided in draft on December 18th and submitted to government on January 7<sup>th</sup>
- Capacity funding and 3<sup>rd</sup> party review also discussed

## Economic Development

- Meeting with JV partners
- Discussed upcoming contract and job opportunities

## Topics/Issues and Resolution Tracker

Pawgwasheeng - Pays Plat First Nations and Marathon Palladium Project

| Date         | Topic/Issue  | Progress Update  | Resolution | Responsibility |
|--------------|--|--|------------|----------------|
| Dec. 3, 2020 | Pukaswka Park field sampling program, may have sampled Hare Creek and other waterbodies in area. Contact the park and determine if water quality data is available.  | Email sent to Pukaskwa National Park to determine what field sampling data is available (Dec. 14, 2020).   |            |                |
| Dec. 3, 2020 | Jackfish area of concern, in recovery and want to ensure no effects from Project, especially in accident/malfunction scenarios will impact Jackfish area. Follow-up on available data on currents of Lake Superior in that region. | Lake Superior currents - desktop review of available data.   |            |                |
| Dec. 3, 2020 | Timber harvest on site. Statement about merchantable timber and management of forest.  | Timber on site falls within the Pic Forest (PF), formerly Big Pic Forest ( BPF) and the Pic River Forest (PRF). The Pic Forest is managed under Nawiinginokiima Forest Management Corporation (NFMC) was established in 2012. Note 2007-2012 Forest Management Plan for Big Pic Forest had majority of timber in PSMF area, access road corridor and area east of access road, was allocated for "normal" harvest or fuelwood. Project site removed from FMP by MNRF. Will work with NFMC to harvest merchantable timber from Project footprint. |            |                |
| Dec. 3, 2020 | Tributaries to Pic River on east side of Project site.   | Optimized design reduced number of tributaries to Pic River to Stream 2 and Stream 3 watershed. Additional information to be provided to PPFN from fisheries report.   |            |                |
|              |  |  |            |                |
|              |  |  |            |                |
|              |  |  |            |                |

## Other topics/New Business

- Schedule regular committee meetings
- Other suggestions?



# GENERATION PGM

January 2021- UPDATE

## MARATHON PALLADIUM PROJECT



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Such estimates are necessarily imprecise and depend to some extent on statistical inferences and other assumptions, such as metal prices, cut-off grades and operating costs, which may prove to be inaccurate. Information provided relating to projected costs, capital expenditure, production profiles and timelines are expressions of judgment only and no assurances can be given that actual costs, production profiles or timelines will not differ materially from the estimates contained in this Presentation.

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# AGENDA

- Project Update
- Baseline Reports
- Mitigation Measures
- Environmental Monitoring







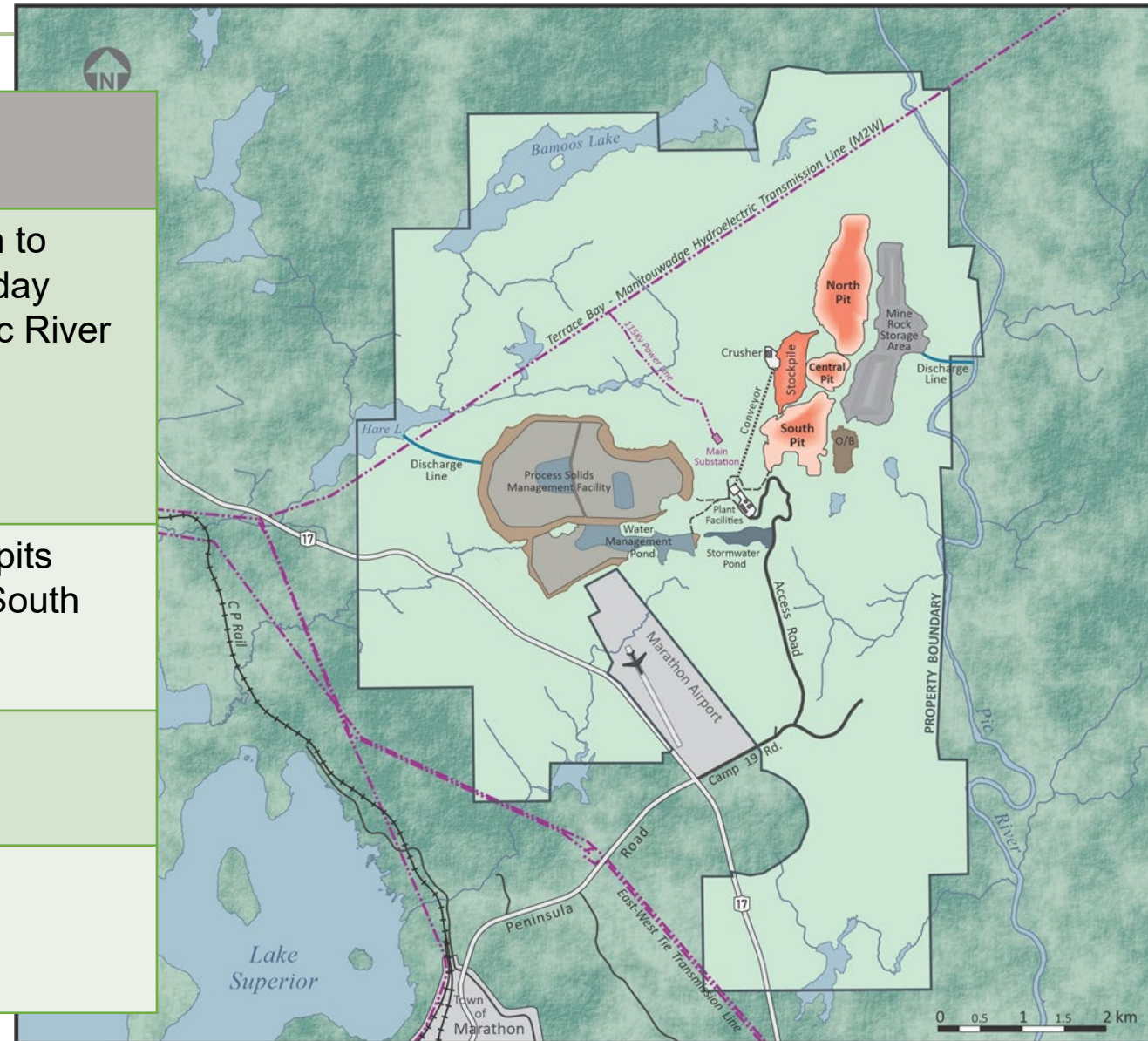
- Proposed open pit Palladium and Copper mine
- On site processing facility and mine rock storage
- Undergoing Environmental Assessment with Joint Panel Review
- Requires detailed environmental permitting:
  - Closure planning
  - Air emissions
  - Water discharge
  - Species at Risk
  - Fish Habitat
- Site construction will take 18 to 24 months
  - Construction workforce +900 workers
- Operations estimated to last 13 years
  - Operating workforce +450 people

# PROJECT DESIGN UPDATES

GENERATION PGM



| Project Component             | 2020 Update   |
|-------------------------------|---|
| Process Plant                 | Increased production to ~25,200 tonnes per day<br>Moved away from Pic River |
| Open Pit                      | Reduced number of pits<br>North, Central and South                          |
| Mine Life                     | Increased to ~13 years  |
| Mine Rock Storage Area (MRSA) | Reduced footprint<br>Added in-pit storage                                   |





# PROJECT TIMELINE

- Goal is to begin production in 2023
- Construction 18-24 months beginning in 2022
- Complete EIS and Joint Panel Review in 2021
- Environmental Permitting 2021-2023

|                          | 2019   | 2020   | 2021   | 2022   | 2023   |
|--------------------------|--------|--------|--------|--------|--------|
| PEA Study                | Active | Active |        |        |        |
| Feasibility Study        |        | Active | Active |        |        |
| EIS Report               |        | Active | Active | Active |        |
| Environmental Permitting |        |        | Active | Active | Active |
| Construction             |        |        |        | Active | Active |
| Production               |        |        |        |        | Active |

*\* Important note: Construction and production are subject to favorable results in the feasibility study, permitting and financing of the project.*



Volume 1 submitted Jan 2021

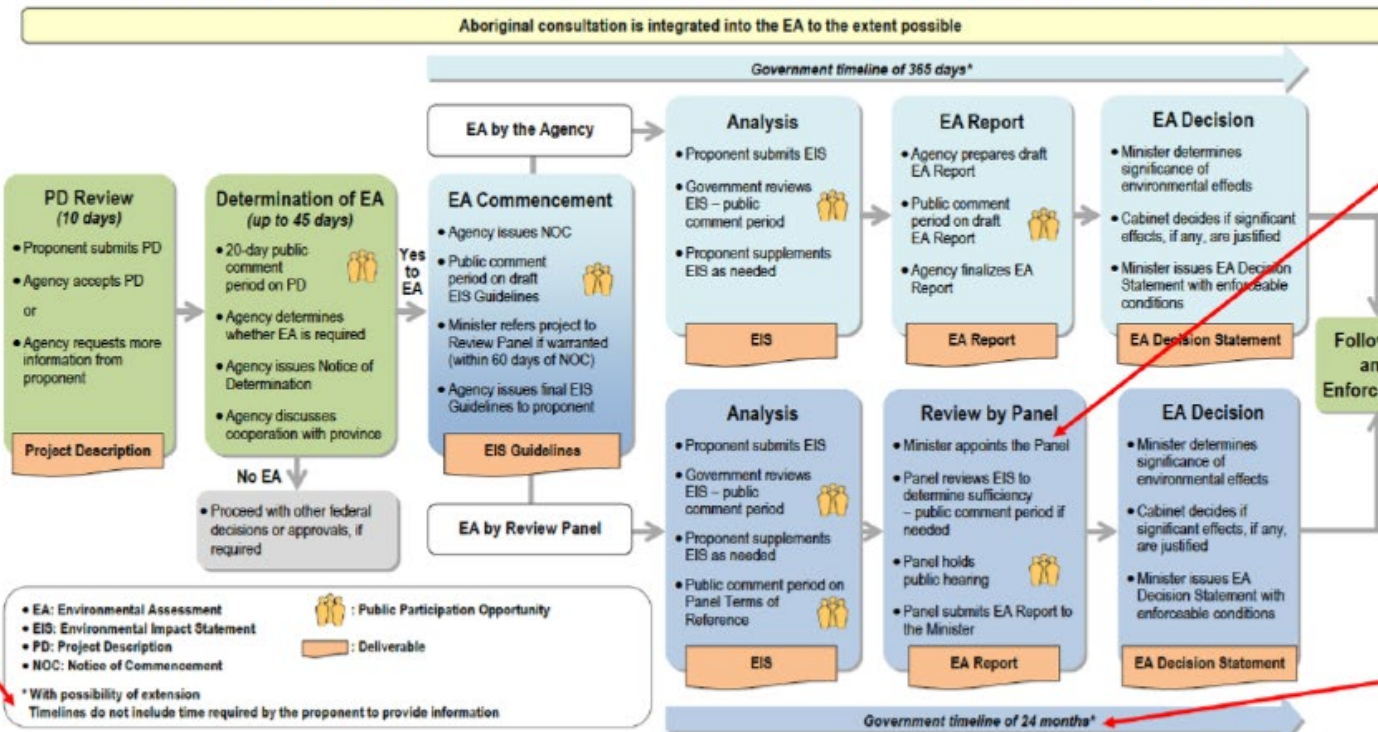
- Ch 1 Introduction
- Ch 2 Project Scoping
- Ch 3 Project Alternatives
- Ch 4 Environmental Setting

Volume 2 submission Feb 2021

- Ch 5 Consultation
- Ch 6 Assessment of Impacts
- Ch 7 Environmental Management
- Ch 8 Commitments



## ENVIRONMENTAL ASSESSMENT PROCESS MANAGED BY THE AGENCY



Note: IAAC have already extended by 90d and any additional extensions need to go to Cabinet for approval

We Are Here

We have 271 days of the government clock remaining



# BASELINE REPORTS

- Chapter 4 includes updates to environmental studies
  - Twelve baseline reports published on GenPGM website
1. Acoustic
  2. Aquatic
  3. Atmospheric
  4. Cultural Heritage
  5. Geology
  6. Hydrology
  7. Socioeconomics
  8. Soils
  9. Terrestrial
  10. Transportation
  11. Water Quality
  12. Hydrogeology







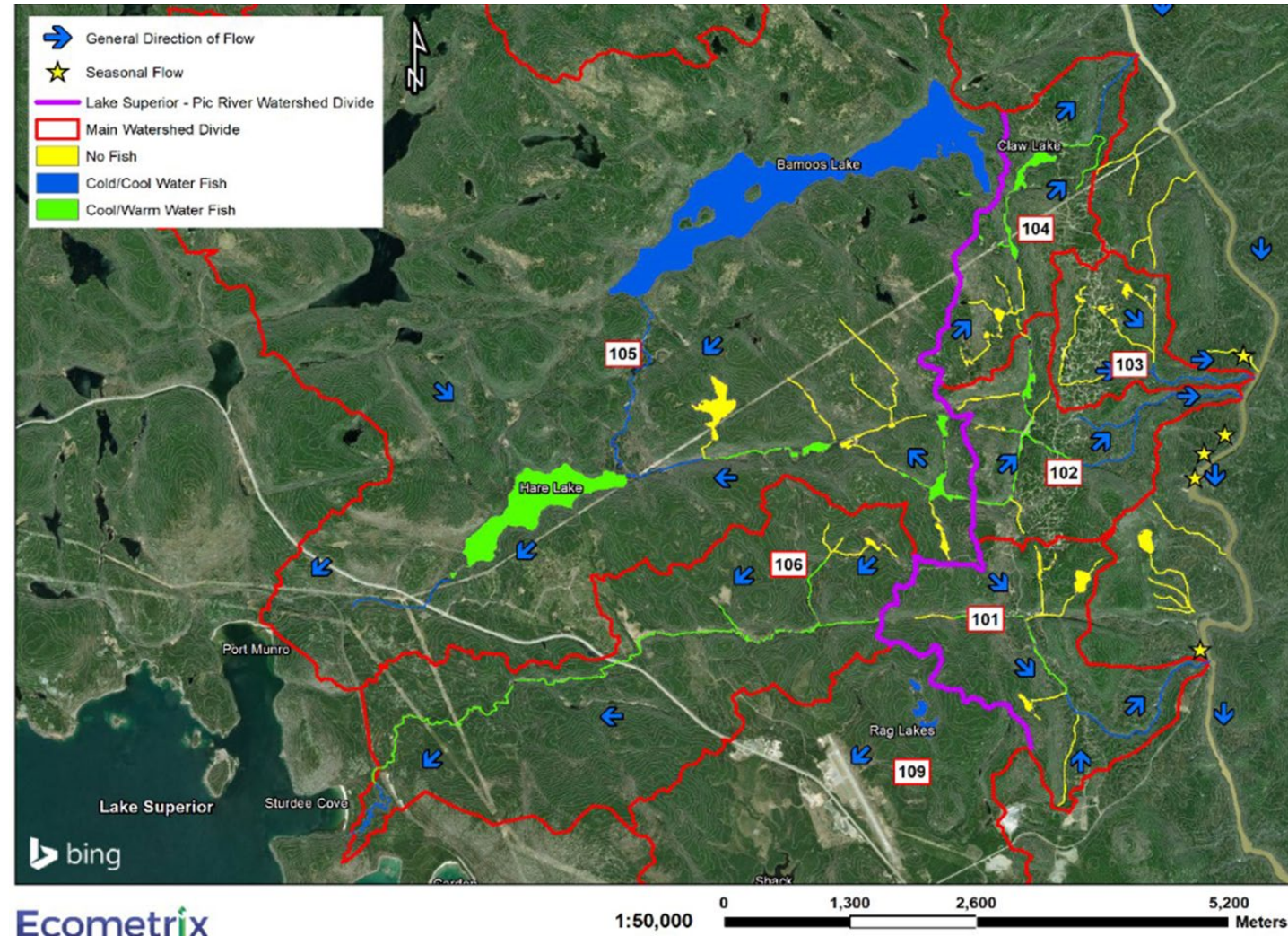
# BASELINE REPORTS - AQUATICS

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- Monthly and seasonal groundwater sampling at 36 monitoring wells around the Project site
  - 2008, 2011-2013, 2020
- Streamflow monitoring program characterized annual and seasonal variations in local creeks and rivers
- Water Quality Monitoring Network includes 58 stations
  - Monthly sampling between 2008 and 2012
  - Three-times annually since 2015
  - 80,000 records dating back to 2001

Fish studies on numerous subwatersheds at the Project site including:

- Water and sediment quality
- Benthic communities
- Plankton communities
- Fish communities
- Fish habitat
- Fish tissue





## Terrestrial field work June-August 2020

- Study took into consideration vegetation communities, flora, insects, reptiles and amphibians, birds, and mammals
- Visual surveys, trail cameras and acoustic recorders
- Confirmed use of Project area by moose, black bear, grey wolf, marten

## Species at Risk

- Yellow-banded bumblebee and monarch butterfly present
- Canada Warblers relatively abundant at the site
- Little Brown Myotis and Northern Myotis also use the site

**Woodland Caribou:** Project is within the defined habitat but no active population present. Project will require efforts to improve caribou habitat within the Superior Range





# BASELINE REPORTS

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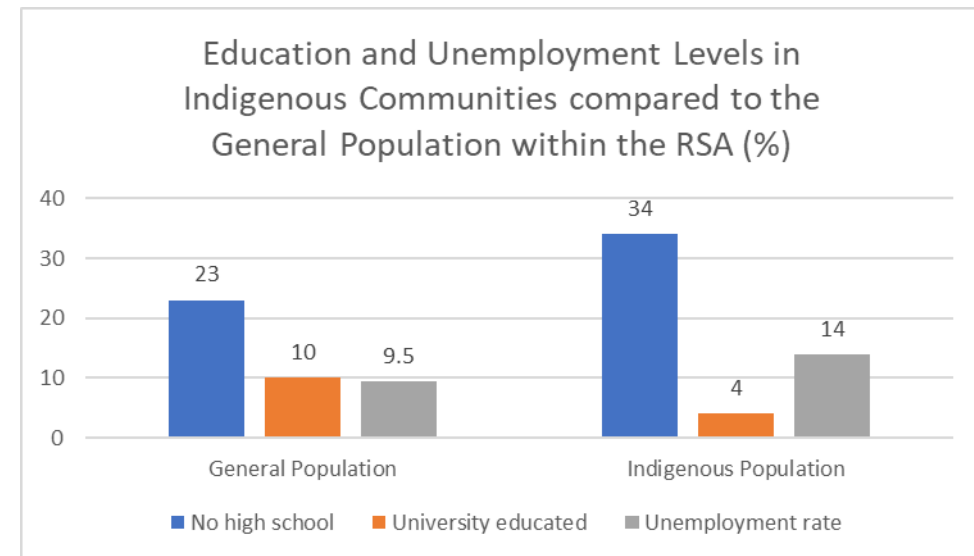
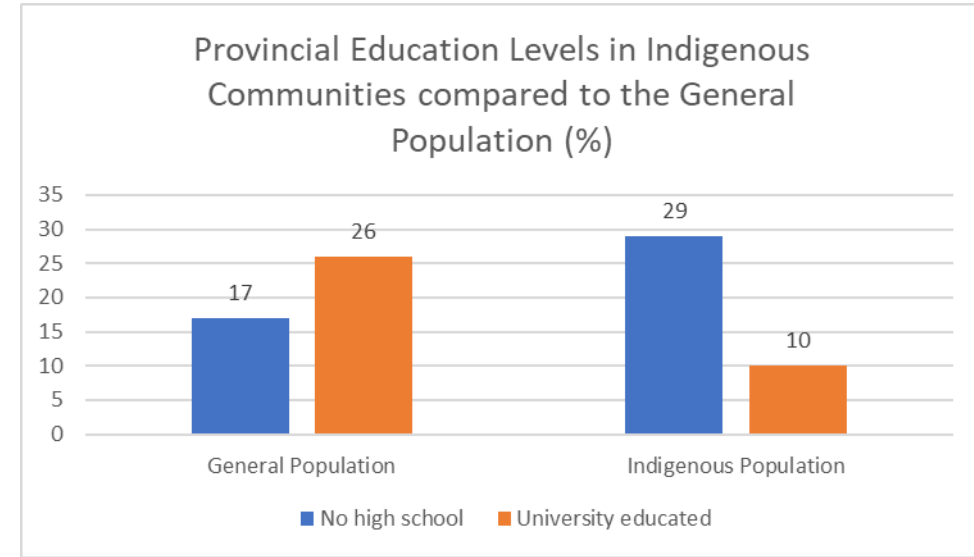
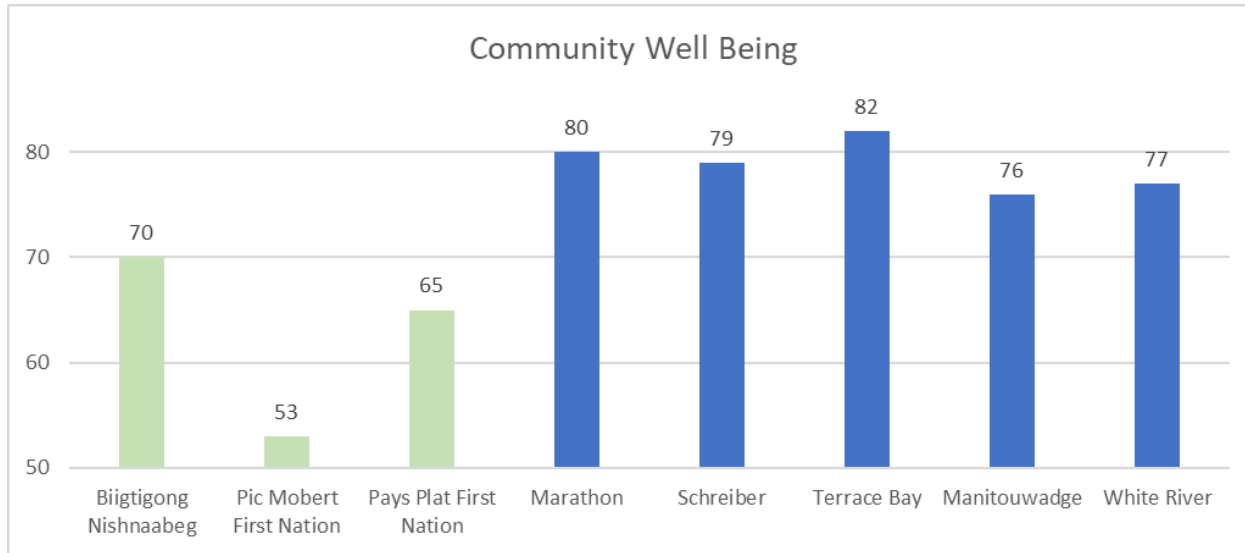
## Cultural Heritage: Archaeology

- Two archaeological studies, including interviews and review of available TEK/TLU studies completed by communities
- Ministry of Heritage, Tourism, Sport, and Culture Industries: framework to ensure there were no cultural heritage components of importance within the Project footprint



## Socio-economics

- 4,705 workers regionally
- Mining industry employs approximately 15% (690 persons)
- Approximately 77,000 self-identified Metis people in Ontario
- Approximately 10,000 First Nations people living in the RSA
- Indigenous communities have reduced well being, education and employment levels compared to the general population





## MITIGATION MEASURES

---

- Gen PGM is dedicated to protecting Valued Ecosystem Components (VECs) in the Project area and region
- A series of management plans and mitigation measures are proposed
- Focus on minimizing risk and protecting water quality, fish, and species at risk.
- Indigenous community engagement is an integral part to planned environmental monitoring and investments
- Conceptual closure plan underway includes soils salvage and storage during stripping for reclamation purposes



- **Waste and Recycling Material Management Program (WRMMP):** Intended to manage the non-hazardous and hazardous waste generated on the Project site
- **Emergency Preparedness Plan (EPP):** Intended to establish procedures and provide clear direction in case of an on-site emergency, including the identification of responsibilities of parties
- **Environmental Monitoring and Management Plans (EMMP):** Sets the practices and procedures that will be implemented to reduce potential adverse environmental effects of the Project and the corresponding follow-up and monitoring programs to test predictions made in the EIS and EIS Addendum and to demonstrate compliance with applicable permit and license standards.

## Air and Noise

- Air quality monitoring stations will be installed
- Dust and particulates, including metals to be monitored regularly
- Noise monitoring at sensitive receptors

## Fish and Fish Habitat

- Sampling of fish communities, including sediments and benthics at receiving waterbodies
  - Hare Lake and Pic River
- Fish tissue sampling program will be developed to monitor metal levels
- Fish habitat construction and compensation will be required
  - Compensation related monitoring will monitor success of habitat construction efforts

## Groundwater Quality and Quantity

- Monitoring groundwater levels to assess potential changes in response to mine activities
- Monitoring groundwater quality to confirm the effectiveness of seepage collection systems
- Areas of focus to be downstream of PSMF and MRSA

## Surface water Quality and Quantity

- Measurement of water quality and quantity will be conducted at point source discharge locations
- Water quality will also be measured in surface water receiving environments
- Records will include water level, flow gauging, depth and flow profiling and water quality sampling





## Plants and Wildlife

Surveillance monitoring will occur around the SSA to identify the presence, colonization and encroachment of invasive and noxious plants within and around disturbed areas of the Project site.

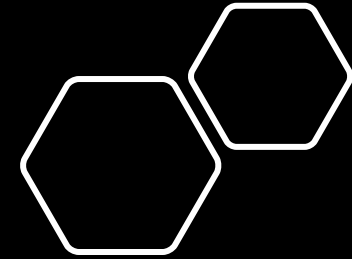
Recording of wildlife fatalities or interactions by conducted through a self-reporting program to be followed by all on-site personnel.

Prior to tree clearing surveys of the area will be conducted for migratory birds.



- Volume 2 submission and re-start of regulatory clock
- Community review, questions and comments
- Schedule regular Project updates
- Identify community projects for collaboration

# GENERATIONPGM



More Information on the Project can be found at

[www.genmining.com](http://www.genmining.com)

and the Impact Assessment Registry at

<https://iaac-aeic.gc.ca/050/evaluations/proj/54755?culture=en-CA>

**If you have additional questions,  
please email us at [comments@genpgm.com](mailto:comments@genpgm.com)**



## **Red Sky & Town of Marathon Virtual Community Consultation – Jan 26, 2020**

Generation Mining – Marathon PGM Project Update

**Participants:** GenPGM (3), Red Sky (2), TOM (1), P. McGuire, Jackfish Metis Group (1)

**Presenters:** T. Leblanc, C. Moffett

**Meeting Notes & Covered Topics:** Project Update and Baseline Report

-Project environmental permitting will include things such as Closure plans, air emissions, water discharge and species at risk considerations

-Design has been optimized to reflect community outreach, to reduce footprint and slightly increased production

-Open pit layout and mine rock storage localities

-Joint Review Panel process and what the decisions mean moving forward with permitting

-Baseline reports have been ongoing for ~20 years to understand the site, a focus on updating these studies have gone on since the restart of the EA process

-Atmosphere and climate data have new added sites and we have updated some information, and we used 25 noise-sensitive receptors for noise modelling

-Water quality monitoring wells are dispersed throughout the footprint and some regionally for local creeks and rivers, with roughly 70 samples set up for surface water monitoring (80,000 records dating back to 2001 for water quality)

-Many sites near our open pits are non-fish bearing due to steep topography that prevent fish from migrating up-river

-The area is used by moose, blackbear, marten, wolves. The species at risk observed on site are yellow banded bumblebee and monarch butterflies, two species of little brown bats, and Canada warblers

-Mitigation measures have been updated in the EIS Addendum and seeing through an effects assessment report to see where these plans can be improved (focus on minimizing risk and protecting water quality, fish and species at risk)

### **Q&A period:**

**Q:** The defined feasibility study for the actual final design, does that have impact on the environmental assessment process?

**A:** The Feasibility study directly informs the environmental assessment report (i.e. what type of equipment, amount of workforce, water management)

**Q:** When is the panel projecting their community consultation (whether it be zoom or in-person)

**A:** This is a government process and right now we are well into the process but the clock has not yet resumed.

**Q:** Was the purpose of breaking the EA up for the public or more for the panel?

**A:** It was for both, but the clock will not restart until the government deems the submission sufficient. The staged approach is to inform people as we go. The Information Requests submitted by the government is what can stop the clock along the process.

**Q:** Is this going through provincial or federal cabinet?

**A:** It is joint-venture so it has to go through both, in order to ensure the process was proper to give people time to review information (especially during COVID) that the additional 90 days would be a big help.

**Q:** Do all things such as compensation (i.e. water and fish) plans have to be approved before construction begins? Does the timeline for that push back the construction timeline?

**Q:** The Town of Marathon had to hire a consulting company for understanding of the EA process in 2014, is this new EA relevant and updated?

**Q:** How many trucks would be coming through the town

**A:** Up to 10 concentrate trucks for PGM by-products but also if another concentrate material would be produced then potentially up to 20-25 trucks. Timing of the trucks was taken into consideration from community outreach to think of things such as when people go to work/kids going to school.

**Comment:** Fish tissue studies moving forward as being a regular study would be beneficial moving forward as there are many community members that harvest fish in that region, the peace of mind provided by GenPGM in reports would be good.

**Q:** We have been arguing with the government that there is no caribou habitat along the superior coastline corridor, but it is not a good terrain. Why is there a push to maintain this barren corridor?

**A:** We know that there is no population there to protect but there will likely be a caribou related permit on things such as how to remediate caribou habitat and how to improve caribou outlook at-large. From the Province it is more a precautionary measure.

***P. McGuire and Mayor TOM both support that the Caribou situation is frustrating as there is no population and do not believe in the Lake Superior Caribou Migration Corridor (want to protect the Moose population not Caribou)***

**Comment (TOM):** A quick update on changes and progress on the feasibility study, EA and review panel, construction timelines etc. would be good to have each month.

# GENERATION PGM

January 2021- UPDATE

## MARATHON PALLADIUM PROJECT





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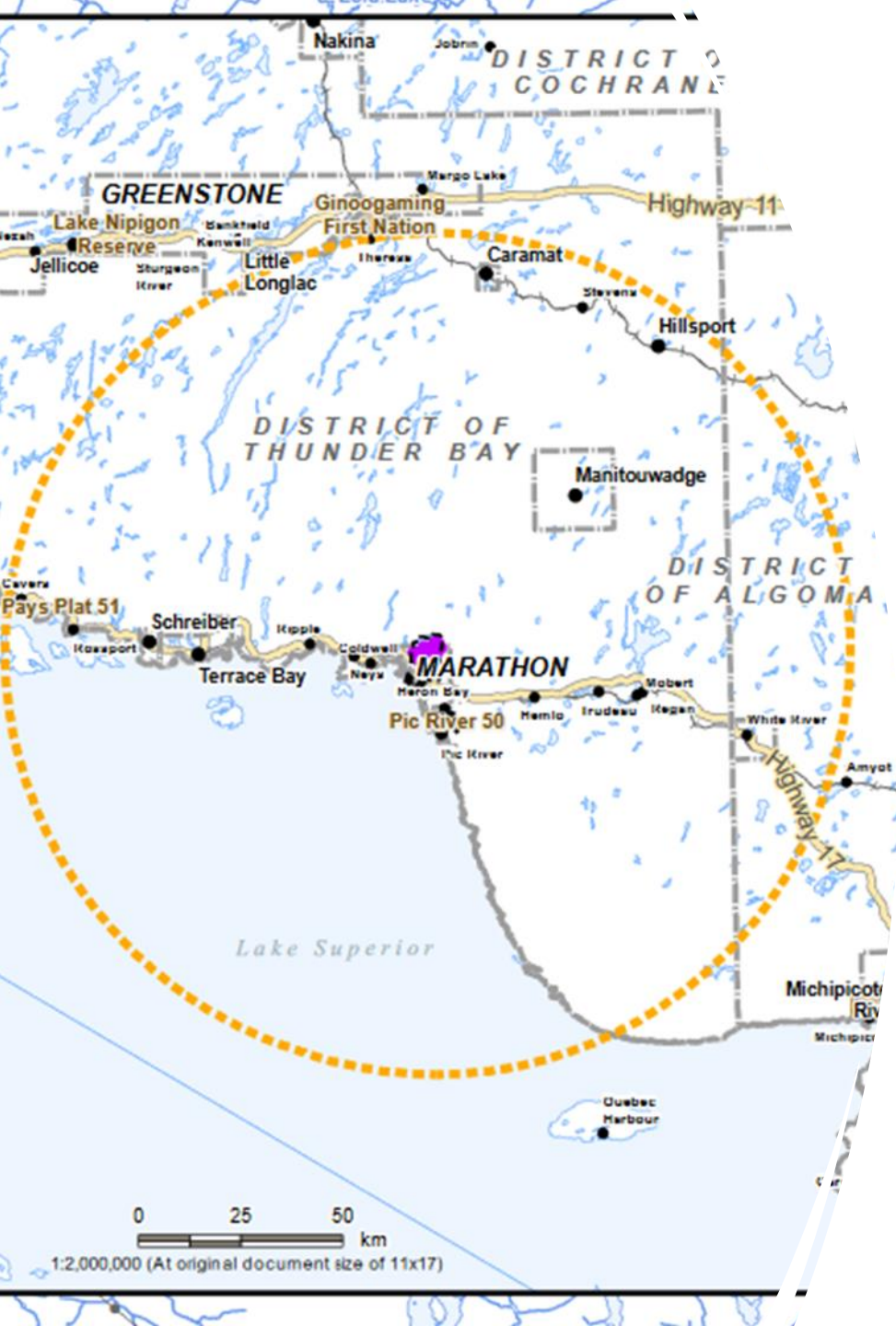


- Feasibility Study progressing
- Baseline reports submitted in November 13, 2020
- Panel appointed November 16, 2020
- EIS Volume 1 submitted January 7, 2021
- EIS Volume 2 expected to be complete in roughly 5 weeks
- Volume 2 submission and re-start of regulatory clock

# BASELINE REPORTS

- Chapter 4 includes updates to environmental studies
- Twelve baseline reports published on GenPGM website

1. Acoustic
2. Aquatic
3. Atmospheric
4. Cultural Heritage
5. Geology
6. Hydrology
7. Socioeconomics
8. Soils
9. Terrestrial
10. Transportation
11. Water Quality
12. Hydrogeology





Marathon Palladium  
Project Environmental  
Impact Statement  
Addendum

VOLUME 1 OF 2

1.0 Background and Introduction

Prepared for:

**GENERATION PGM**

Prepared by:



**Ecometrix** | Environmental  
INTELLIGENCE

**NORTHERN  
BIOSCIENCE**  
CONSULTING

**kp** Knight Piésold  
CONSULTING

Date: January 7, 2021  
Environmental Assessment by Review Panel under CEAA 2012  
Reference Number 54755

## Volume 1 (submitted Jan. 2021)

- Ch 1 Introduction
- Ch 2 Project Scoping
- Ch 3 Project Alternatives
- Ch 4 Environmental Setting

## Volume 2 (pending)

- Ch 5 Consultation – 85% complete
- Ch 6 Assessment of Impacts – 60% complete
- Ch 7 Environmental Management – Drafted
- Ch 8 Commitments - Drafted

## MITIGATION MEASURES

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- Gen PGM is dedicated to protecting Valued Ecosystem Components (VECs) in the Project area and region
- A series of management plans and mitigation measures are proposed
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- **Waste and Recycling Material Management Program (WRMMP):** Intended to manage the non-hazardous and hazardous waste generated on the Project site
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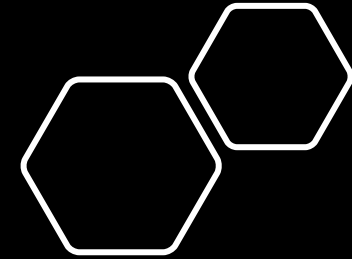




|                                    |   |
|------------------------------------|---|
| Air and Noise                      | Monitoring Stations – dust, particulates, metals and sensitive receptors  |
| Fish and Fish Habitat              | Fish tissue sampling, sediments and benthics at receiving waters  |
| Groundwater Quality and Quantity   | Monitoring wells testing for levels, quality and focus on down gradient locations from PSMF and MRSA  |
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| Plants, Wildlife, Species at Risk  | Surveillance monitoring will occur around the SSA to identify the presence, colonization and encroachment of invasive species, mitigation to reduce wildlife/site personnel interaction and reporting, nesting/bird surveys prior to harvest. |

- Community review, questions and comments
- GenPGM Capacity Funding
- Draft Chapters 7 and 8 will be available on ftp for communities prior to submission to JRP
- Schedule regular Project updates

# GENERATIONPGM



More Information on the Project can be found at

[www.genmining.com](http://www.genmining.com)

and the Impact Assessment Registry at

<https://iaac-aeic.gc.ca/050/evaluations/proj/54755?culture=en-CA>

**If you have additional questions,  
please email us at [comments@genpgm.com](mailto:comments@genpgm.com)**



## Draft Meeting Agenda

### RED SKY MÉTIS INDEPENDENT NATION meeting with the IMPACT ASSESSMENT AGENCY OF CANADA & THE PROVINCE OF ONTARIO with guest appearance by Generation Mining PROPOSED MARATHON PALLADIUM MINE

**Time and Location:**

Wed Jan 27, 2021  
Microsoft Teams  
1-3pm

**Purpose and Objectives:**

- Generation (proponent) – project updates
- Impact Assessment Agency of Canada (IAAC) and Province of Ontario - sharing environmental assessment process updates
- Overview of RSMIN rights in relation to the project
- IAAC presentation on the methodology to assess of impacts on the Rights of Indigenous Peoples
- Two-way sharing of issues and interests related to the Marathon Project

**DRAFT Itinerary:**

|                                  |  |
|----------------------------------|--|
| 1-1:15pm                         | <p>Introductions (All)<br/>IAAC (Jason Boisvert) overview of agenda and objective for the meetings as well as open the floor for any additions RSMIN would like on the agenda</p>  |
| 1:15-1:45pm                      | <p>Generation - Project updates and RSMIN questions<br/>IAAC and ON – Relevant process updates</p>   |
| <b>Proponent Departs Meeting</b> |  |
| 1:45-2:15pm                      | <p>RSMIN – Overview of RSMIN history, interests and practice of rights in relation to project</p>  |
| 2:15-2:50pm                      | <p>IAAC (Jason Boisvert) overview of Agency’s methodology to assess severity of impacts on rights of Indigenous peoples – slides attached to email</p> <p>IAAC – Worksheets and Forms to assist in opportunity for RSMIN to bring forward information on rights and/or values to be assessed in the context of the proposed Marathon project.</p> <p>Examples of key questions:</p> <ul style="list-style-type: none"> <li>• RSMIN interest in co-developing or commenting on the Agency’s assessment of potential impacts on the rights in relation to this project and taking the pen on the Crown Consultation and Accommodation Report (CCAR)</li> <li>• Best approach to involve RSMIN members in the assessment, namely in COVID era</li> </ul> <p>Materials: Guidance found here: <a href="https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/practitioners-guide-impact-assessment-act/guidance-assessment-potential-impacts-rights-indigenous-peoples.html">https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/practitioners-guide-impact-assessment-act/guidance-assessment-potential-impacts-rights-indigenous-peoples.html</a></p> |
| 2:50-3pm                         | <p>Next steps, frequency of meetings, collaborating on assessment of proponents EIS, assessment of impacts on rights draft work plan</p>   |

# GENERATION PGM

January 2021- UPDATE

## MARATHON PALLADIUM PROJECT





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- Ch 4 Environmental Setting

## Questions/Follow-up from Volume 1?

## Volume 2 (pending)

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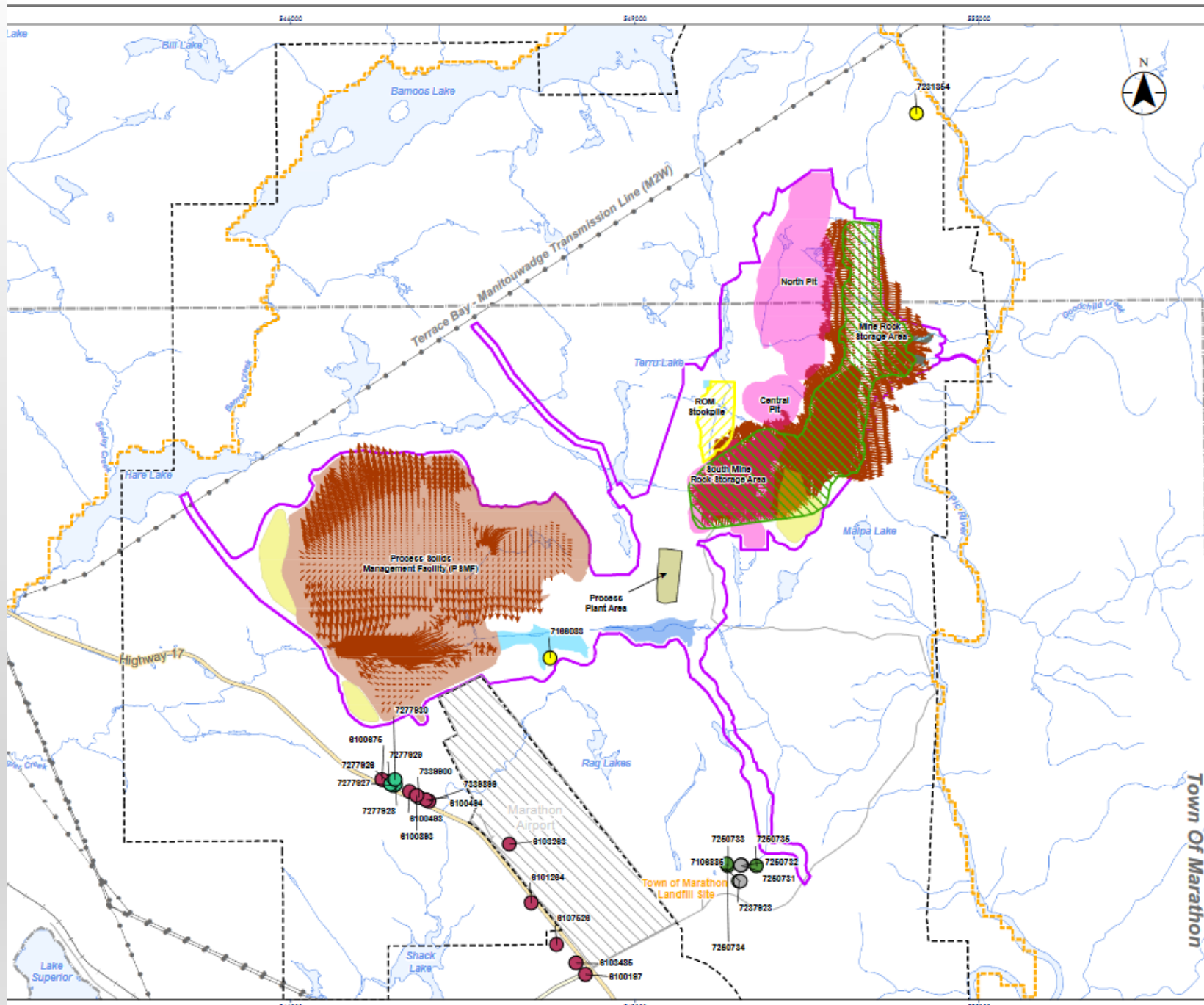
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## CHAPTER 6

- Design largely the same as last time, so far model results are very similar:
  - **Air** – modelled worst case scenario; shows compliance at special receptors; Project boundary results similar as before, the exceedances can be mitigated or occur very infrequent rates, e.g. less than 2%
  - **Noise** – modelled worst case scenario; complaint at sensitive receptors; shunting at rail load out was issue before but we've adjusted operations to mitigate
  - **Hydrogeology** – results show no impact to groundwater users from quality or draw down perspective (see next slide)
  - **Water balance** – shows a surplus of water annually, will require discharge to Hare Lake likely in spring during freshet; waiting for hydrology and water quality modelling
  - **Geochemistry** – more conservative determination of non-potentially acid generating (non-PAG) mine rock (Type 1) and potentially acid generating (PAG) mine rock (Type 2) considering the NP that is strictly carbonate minerals (Carb-NP) Carb-NP/AP ratio in place of the Sobek-NP/AP. Instead of 0.3% S cut off, using 0.18% S, which results in 11.2% of Type 2. Previous stated roughly 85-90% would be Type 1, remaining 10-15% Type 2

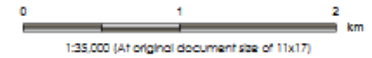






Legend

- Regional / Local Assessment Area (Groundwater)
- Approximate Limit of Surface Rights (current and/or planned)
- Site Study Area Boundary
- Particle Traces
- Highway
- Major Road
- Hydro Line
- Railway
- Watercourse
- Airport
- Municipal Boundary, Lower Tier
- Waterbody
- Abandoned-Other
- Monitoring and Test Hole
- Observation Wells
- Water Supply
- Unknown
- Proposed Mine Features
- Mine Rock Storage Area (M RSA)
- Process Plant Area
- ROM Stockpile
- Stormwater Management Pond
- Open Pit
- Overburden Stockpile
- Process Solids Management Facility (PSMF)
- Water Management Pond



- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
  2. Some features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016
  3. Groundwater storages are displayed in areas below surface
  4. The proposed mine features depicted on this drawing are intended to represent a generalized and conceptual overview of the major mine components at the end of operations stage of mine life.



Project Location: Marathon  
 Prepared by: 129673006 REVA  
 Date: 2021-01-18

Client/Project:  
 GENERATION PGM INC.  
 MARATHON PALLADIUM PROJECT

Figure No.:  
**16**

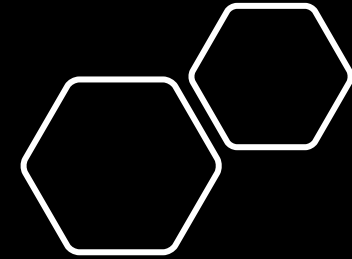
Title:  
**Particle Traces from Stockpiles, PSMF, and Water Management Pond to Open Pit and Receiving Environment at Post Closure (Pit Lakes)**

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- Draft Chapters 7 and 8 will be available on ftp, within the next week
- Chapter 5 consultation; working through, BN input on write up or do they want to provide a recent description used in another publication
- Chapter 6 is couple weeks off schedule; again committed to work with BN/SVS, EA for planning so we can make adjustments as needed
- Volume 1 community info session and/or schedule regular Project updates?
- Comment/Questions

# GENERATIONPGM



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