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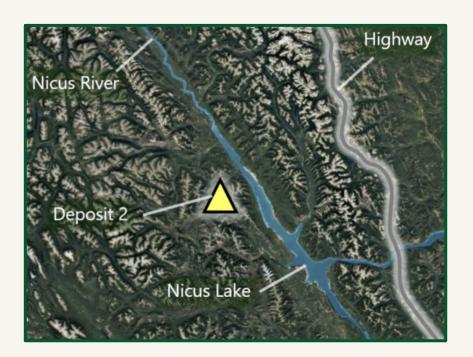
## Deposit 1

- Shallow open pit; low grade ore
- Nearby valleys; tailing storage
- Low contamination risk
- Surrounding rock; stability
- Most remote; lack of engagement
- Extensive construction required;
   mountainous terrain
- Increased cost of labor and resources



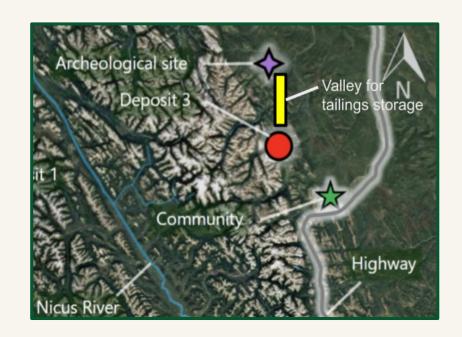
## Deposit 2

- Deep narrow pit; underground extraction
- Moderate to high grade ore
- In close proximity to Nicus Lake
- Greater risk of contamination
- Requires infrastructure development; bridge and roads
- Less community engagement



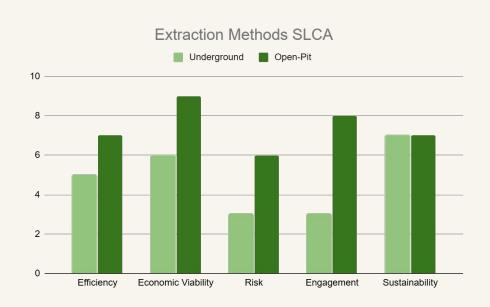
## Deposit 3

- Moderately deep; ore grade improves with depth
- In proximity to a community and archaeological site; greater engagement
- Pre-existing valley nearby; tailings management
- Moderate Environmental Concerns; low contamination risk



# Our Extraction Method - Open Pit Mining

- Higher efficiency; greater extraction rate + shorter project timeline
- Greater economic viability; lower initial costs + greater profit
- Increased community engagement; workforce opportunities
- Fewer risks; safety + operational

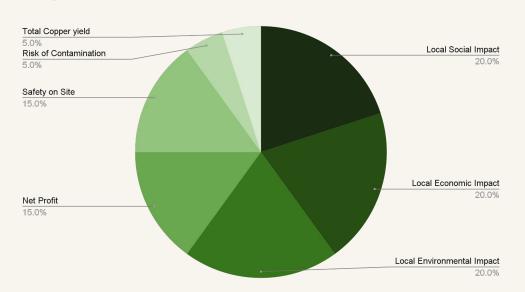


## Streamlined Life Cycle Assessment Yielded Inconclusive Results

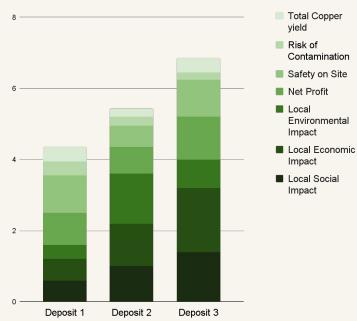


## Deposit 3 Scored the Highest in the Weighted Decision Matrix

#### Weight Distribution



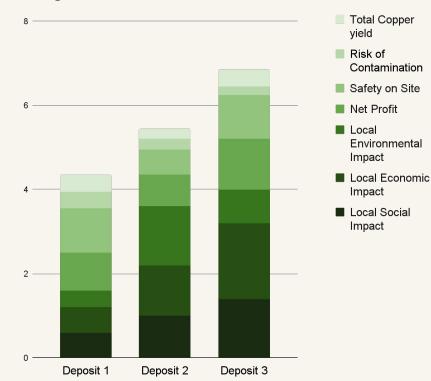
#### Weighted Score



## Our Decision - Deposit 3

- Ranked the highest when sustainability was assessed
  - o WDM, SLCA
- Lowest upfront costs
  - Proximity to existing infrastructure
- Better accessibility
  - Local workforce + resources
- Highest profitability
- Effective mitigation strategies
  - Environmental + social impacts
- Better engagement with local community

### Weighted Score



# **Engagement Efforts**

## **Inform**

Providing updates through newsletters, reports, and websites with complete transparency

### **Consult**

Gathering inputs from the community surrounding around land rights, and cultural significance through surveys and meetings

### <u>Involve</u>

Establishing a
First Nations
Advisory Panel
who will engage in
discussions on
land use and
post-mine
strategies

### **Collaborate**

Ensuring that
ecological and
cultural respect
happens through
fieldwork and
storytelling from
members of the
community.

## **Empower**

Setting up training programs to provide **job opportunities** and skill-building initiatives for local community members.

## Impact on Community Throughout the Mine Life Cycle

#### **Exploration**

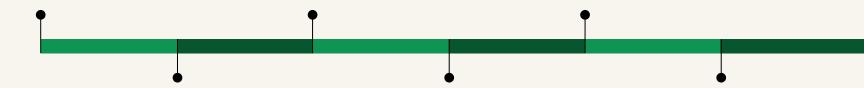
Surveying the community and land site, temporary land use restrictions, and potential increase in vehicle traffic.

#### Construction

Noise and environmental pollution, disruptions to residents' lifestyles, job openings, outside workers welcomed, and a boost to the local economy

#### Closure

Providing financial security options in advance and removal of equipment, causing disruptions similar to the construction stage



#### **Assessments & Consultations**

Town-wide community consultations and assessments, including door-to-door knocking for surveying to address possible oppositions.

#### **Operation**

Local revenue will rise with a surplus in jobs and local businesses with an increase in new infrastructure and programs with allocated profit

#### **Rehabilitation & Monitoring**

Returning mine to original state with continuous monitoring of impacted systems.

# Operation Stage

Risk	Mitigation Measures
Worker Safety	Provide mandatory safety training, conduct geotechnical monitoring, and provide pit wall angle regulations
Air Pollution & Dust	Implement continuous dust suppression techniques such as water spraying
Community Relations & Indigenous Land Impact	Engage with local communities and integrate Indigenous knowledge into land management
Tailings & Waste Management	Implement progressive reclamation strategy, environmental monitoring and dry tailings storage practices.
Water Usage & Management	Implement water recycling systems
Noise & Vibration Impact	Use noise barriers and schedule mining during non-sensitive hours

## Our Plan: A Reflective Future

#### Restoration

- Add soil to restore the land
- Bring back trees, plants, and vegetation local to the community

### Safety

- Incorporate fencing around the exterior of the mine
- Ensure safety protocols in relation to contamination.

## Reflection of history

- A lookout point for visitors to observe the open pit mine
- An art "mural walk" to celebrate local culture and art community



River District Mural Gallery: Murals curated by local artists displayed around the river bank as part of the Vancouver Mural Festival

## Generative AI statement

No generative AI was used in this presentation

# Appendix - WDM

Criteria	Weights	Deposit 1		Deposit 2		Deposit 3	
		Raw	Weighted	Raw	Weighted	Raw	Weighted
Local Social Impact	20%	3	0.6	5	1	7	1.4
Local Economic Impact	20%	3	0.6	6	1.2	9	1.8
Local Environment Impact	20%	2	0.4	7	1.4	4	0.8
Net Profit	15%	6	0.9	5	0.75	8	1.2
Safety on site	15%	7	1.05	4	0.6	7	1.05
Risk of contamination	5%	8	0.4	5	0.25	4	0.2
Total copper yield	5%	8	0.4	5	0.25	8	0.4
Total			4.35		5.45		6.85

# Appendix - Deposit 1 SLCA

Deposit 1	Development	Operation	Closure
Health and safety	3	3	3
Emissions	1	1	2
Waste generation	2	1	2
Water use	3	0	3
Total	9	5	10

# Appendix - Deposit 2 SLCA

Deposit 2	Development	Operation	Closure
Health and safety	1	1	2
Emissions	2	2	3
Waste generation	3	2	3
Water use	2	1	2
Total	8	6	10

# Appendix - Deposit 3 SLCA

Deposit 3	Development	Operation	Closure
Health and safety	2	2	3
Emissions	2	2	3
Waste generation	3	0	2
Water use	3	0	3
Total	10	4	11

# **Appendix - Extraction Method SLCA**

Extraction Method	Underground	Open-Pit
Efficiency	5	7
Economic Viability	6	9
Risk	3	6
Engagement	3	8
Sustainability	7	7

# Appendix - Operational Risk Assessment Matrix

	Severity					
		Low	Moderate	High		
Likelihood	Low		Community Relations	Worker Safety		
Lik	Modetare	Water Usage		Air Pollution		
	High	Noise Impact	Tailings Management	Indigenous Land Impact		