

ASX:CP8



**TECHNOLOGICALLY ADVANCED  
SCALABLE MINING**

APRIL 2025

## OVERVIEW

# Our Company



Focused on sedimentary rock phosphate mining in British Columbia, Canada



High quality deposits with high  $P_2O_5$  (>20%) and low impurities



Canada's most advanced sedimentary rock phosphate project today



Supplying a growing regenerative/organic fertilizer manufacturing industry across North America



Targeting high-grade phosphoric acid production – liquid fertilizer / LFP market



## OVERVIEW

# Technologically Advanced – Scalable Mining

### MODULAR AND SCALABLE

- Industrial Mineral Permit <250,000t
- <2 years process
- Right-sizing operations with developing market (PPA/SPA)
- Growth funded by existing business cash flow, ability to organically grow with market

### LOW CAPITAL REQUIREMENTS

- Mining alone implemented for <\$10m USD
- <\$200m USD initial CAPEX estimated for vertically integrated mine and phosphoric acid plant
- Cash flow present for growth meaning less investment dilution

### LOW IMPACT

- Small environmental footprint by avoiding traditional mining
- No waste materials from phosphate processing
- ESG favorable, reducing permitting time

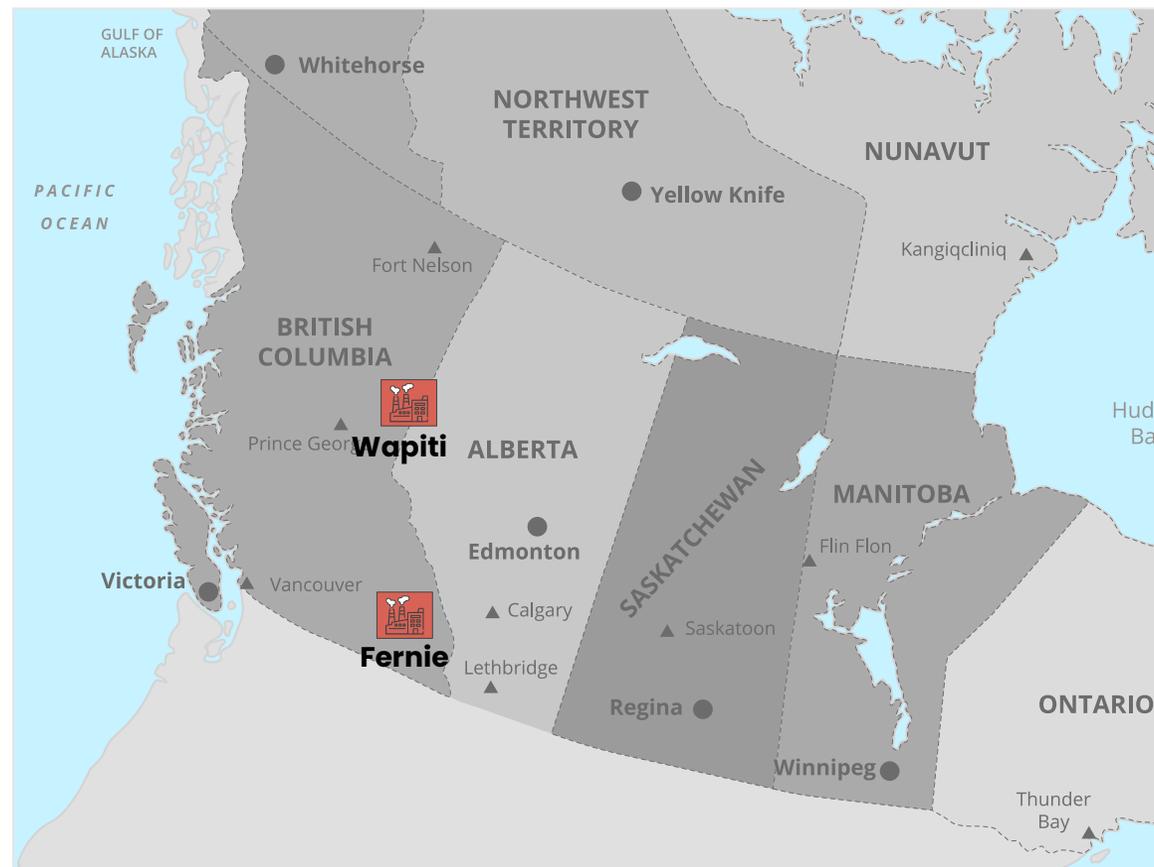
Attractive Project NPV's & IRR's

## PROJECT

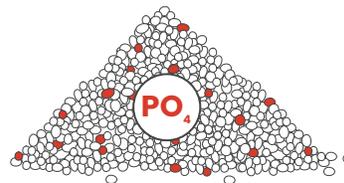
# Canadian Sedimentary Phosphate Projects

### Status

- Current Mineral Resource Estimate – **1.54Mt Inferred and Indicated JORC Mineral Resource\*** to 30m depth – designed for organic phosphate fertilizer business and small-scale surface mining
- Exploration Target (JORC): Expected Q2 2025
- Exploration Permit Application Submitted for 2025 exploration campaign
- Targeting a significant mineral resource estimate upgrade by EOY 2025
- Targeting liquid fertilizer market and emerging North American LFP battery market
- Located near historic coal mining town of Tumbler Ridge, BC – well supported by local infrastructure – road, rail, energy



## OVERVIEW



# Phosphate Market

## Phosphoric Acid Grade



### Demand

#### Fertilizer

- **Canada imports 99% of its phosphate fertilizer needs - approximately 2 million tons per year > USD \$2B**
- Sustainable Aviation Fuel (SAF) and Renewable Diesel (RD)
- Liquid: \$16.7 billion liquid fertilizer market (2023) with 5.9% CAGR.

#### LFP

- LFP batteries now account for 60% of the total EV battery market in China
- **Global LFP battery market is expected to grow from USD \$18.7B in 2024 to \$90.3B in 2034 (CAGR of 16.9%)**
- Onshoring of supply and manufacturing will be key for North America moving forward



### Supply

Over 85% of global production occurs **in China, Russia, Middle East and North Africa**

#### China

- Largest processor of rock phosphate – 90 Mtpa
- Continue to restrict the export of phosphate
- Current reserves provide 34 years of production

#### USA in decline

- Production peaked at > 50Mt in 1985 and now at <20Mt
- USA an importer of rock phosphate
- Declining quality for use in the Wet Phosphoric Acid process
- Phosphogypsum continues to plague the industry

## OVERVIEW

# Future Global Supply?

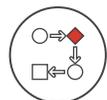
### Smaller Phosphate Mines Becoming Economically Viable



Rock phosphate value ↑ Economic feasibility



Improved small scale mining technology



New improved processing methods



Smaller mines = smaller environmental impact = permits



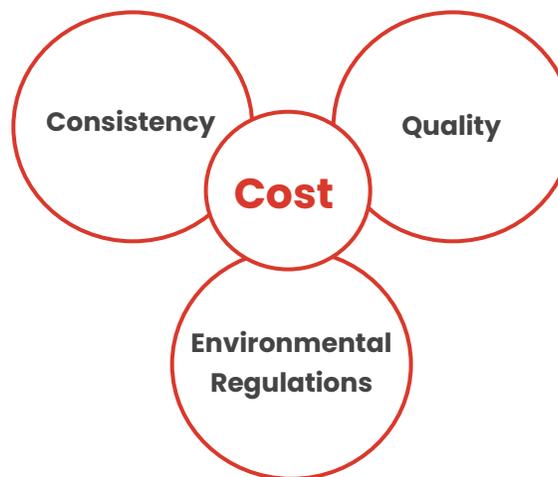
Estimates of \$150-\$200 million capital investment required v \$2 billion for WAP



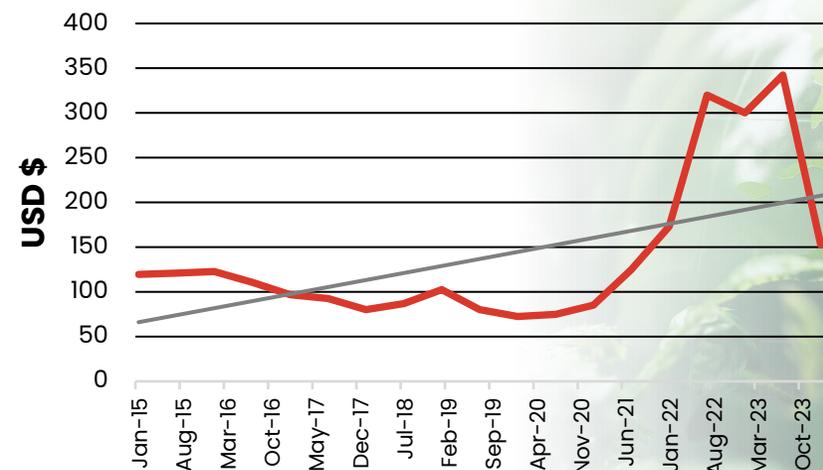
No mega offtake deals prior to funding required



Government support for onshoring of supply chains

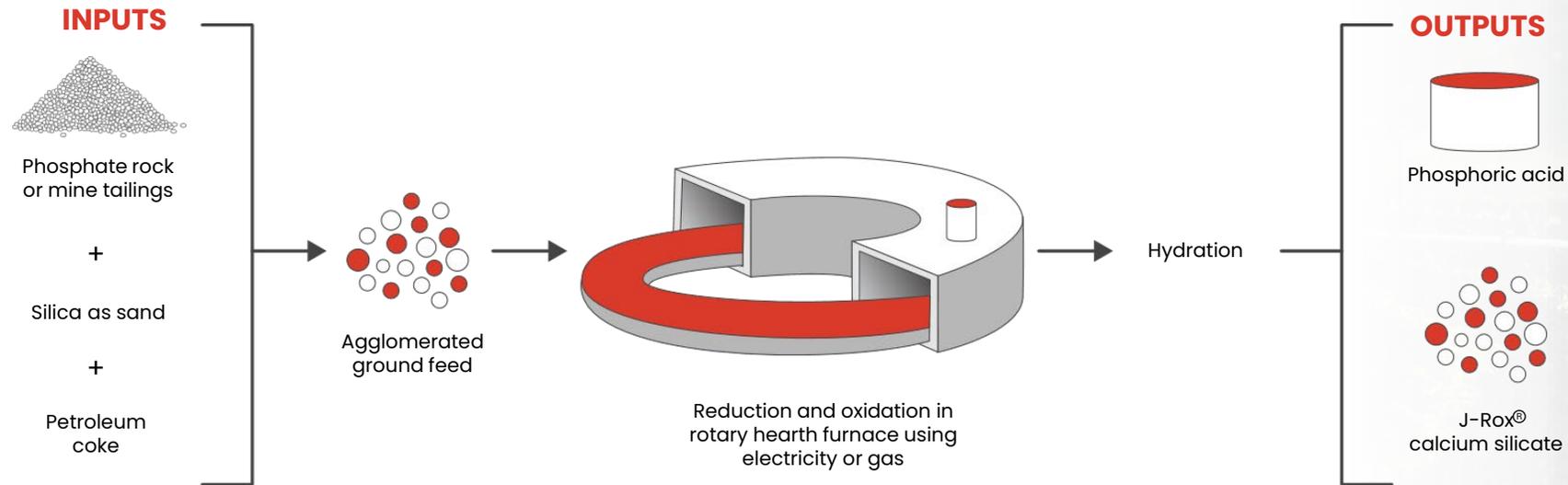


### Rock Phosphate Pricing (Morocco)



# OVERVIEW

## Processing Technology Example



Increased phosphate availability and quality - potential for LFP / Liquid Fertilizer



Lower costs/higher ROI vs. traditional process



Ready to scale and commercialize



Ability to utilize Alberta's hydro electricity / natural gas.



Minimal waste + better resource efficiency



Proprietary process + robust IP protection



Lower grade ore required for processing.

## OVERVIEW

# Mining Technology Example

### STEP 1 Calculate Economics

Software calculates economic returns and creates a Surgical Mine plan.



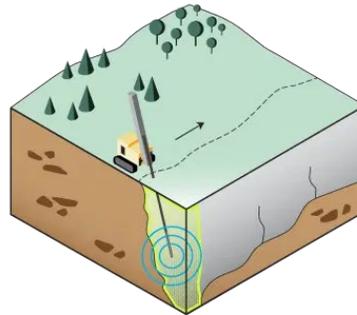
### STEP 2 Map Orebody

Guidance Tool generates high resolution 3D model of orebody.



### STEP 2 Extract Ore

Smart Drilling System optimizes recovery and extracts ore.



## Surgical Mining

- ✓ Low capex solution to unlock uneconomic deposits
- ✓ 40,000 tpa per drill (2m diameter)
- ✓ 300m drill depth
- ✓ No active water discharge – closed loop
- ✓ Smallest footprint of any mining method
- ✓ Potential to be entirely electric

# NOVAMERA

SURGICAL MINING TECHNOLOGIES

## Guidance Tool

- ✓ Commercial deployments with Juniors, mid-Tier and Majors
- ✓ Scans 2-4m radius, depending on lithology
- ✓ Supported by geophysicists and AI/ML



Unlock previously  
uneconomic deposits

up to  
**200%**  
unlevered project IRR

Lower Project Risk,  
Less Capital Required



Generate faster  
returns

~**2 yrs.**  
vs. 10-15 yrs.

Minimal Development,  
Scalable, Modular, Flexible



Shorten permitting  
timelines

~**95%**  
Less waste

Small Footprint,  
No Blasting / Minimal  
Water

## NEW TECHNOLOGY

# Why Canadian Sedimentary Phosphate Production?

### Onshore Production

- Food & energy security
- Consistent supply chain
- Lower transportation costs

### New Technology

- Scalable
- Cost-effective
- Environmentally strategic

### Access to inputs

- Renewable energy
- Low-cost natural gas
- Technology/ expertise

### Government Support

- Critical Minerals List
- Access to grants
- Positive mining jurisdiction

### Market Opportunities

- Onshoring of LFP / LMFP
- Rising fertilizer demand

**The best technology is aimed far enough in the future that it stands out, but close enough to the present that it blends in.**

- Aaron Levie

# Thank You



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



[@canadianphosphate](https://www.instagram.com/canadianphosphate)



## OVERVIEW

# Wapiti Mineral Resource Estimate\*

Depth below surface max (m)	Category	Tonnes (M)	P <sub>2</sub> O <sub>5</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	CaO (%)	MgO (%)	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)
30	Inferred	0.73	21.3	1.9	43.6	1.3	13.7	1.2
30	Indicated	0.81	22.3	1.96	43.1	1.3	14.0	1.3
30	Total	1.54	21.6	1.9	43.4	1.3	13.8	1.3

Note: Estimated using a 7% P<sub>2</sub>O<sub>5</sub> cut-off, Density of 2.85g/cm<sup>3</sup>, polygonal method

### **Cautionary Statement**

The Information in this report that relates to Mineral Resources for the Wapiti Project is extracted from the Company's announcement titled "Fertoz upgrades Wapiti phosphate resource", dated 12 May 2015. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimate of Mineral Resources, that all material assumptions and technical parameters underpinning the estimate in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form & context in which the findings are presented have not been materially modified.

### **References**

#### *Information*

[2022-12-16-Understanding-the-Risks-and-Vulnerabilities-Facing-the-Canadian-Agricultural-Fertilizer-Market-EN-1-1.pdf](#)

[Phosphate Fertilizer Market Size & Share Report, 2040](#)

[Lithium Iron Phosphate Battery Market Size, Growth Report 2034](#)

[chapter-2 — The OPF Report](#)