

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

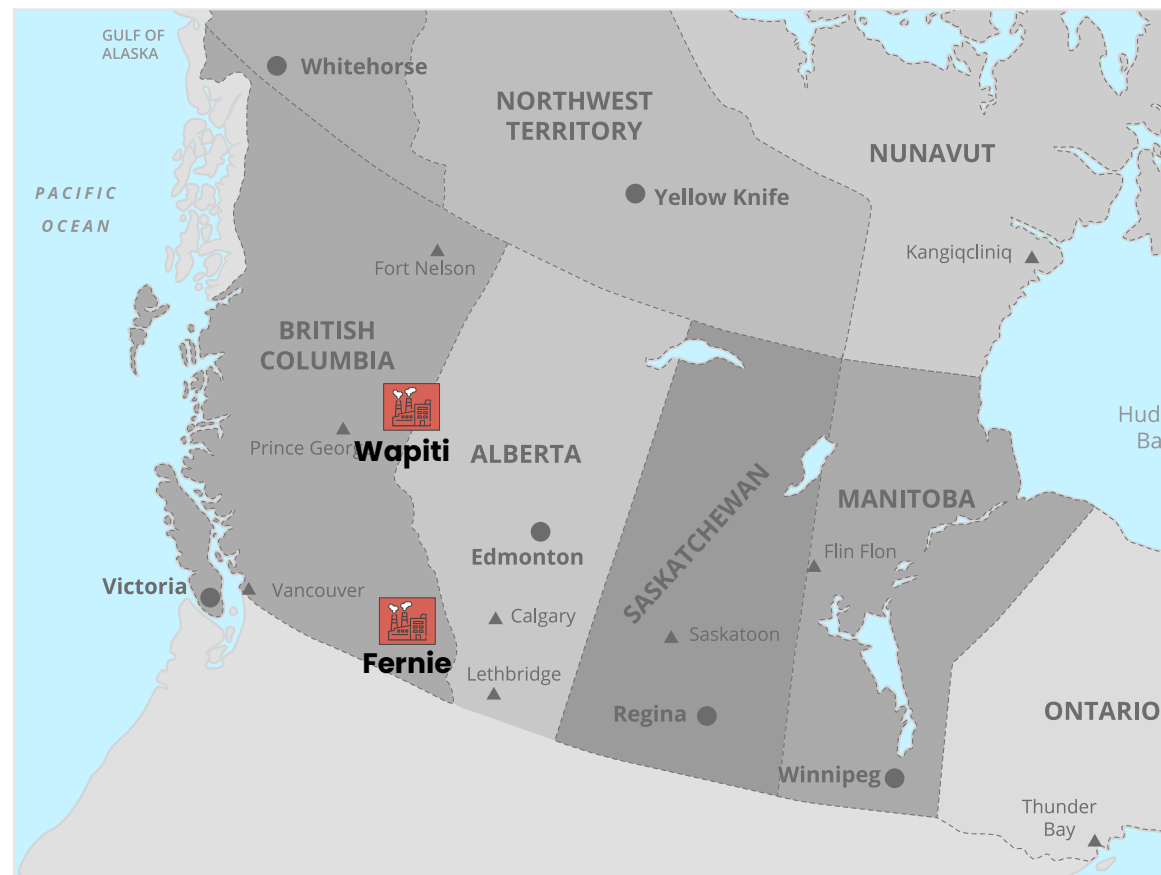
Attractive Project NPV's & IRR's

PROJECT

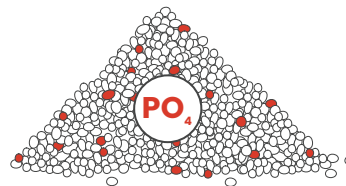
Canadian Sedimentary Phosphate Projects

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?

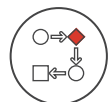
Smaller Phosphate Mines Becoming Economically Viable



Rock phosphate value ↑ Economic feasibility



Improved small scale mining technology



New improved processing methods



Smaller mines = smaller environmental impact = permits



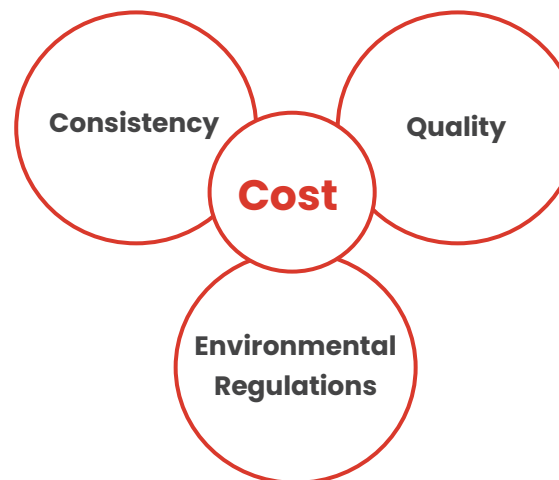
Estimates of \$150–\$200 million capital investment required v \$2 billion for WAP



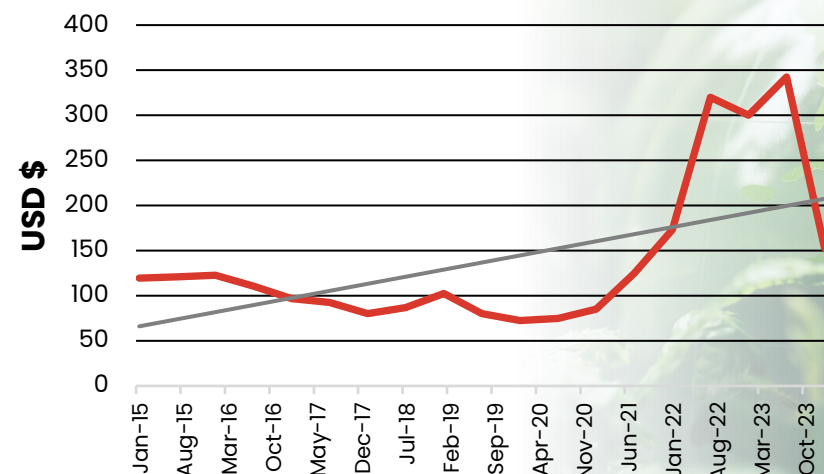
No mega offtake deals prior to funding required



Government support for onshoring of supply chains

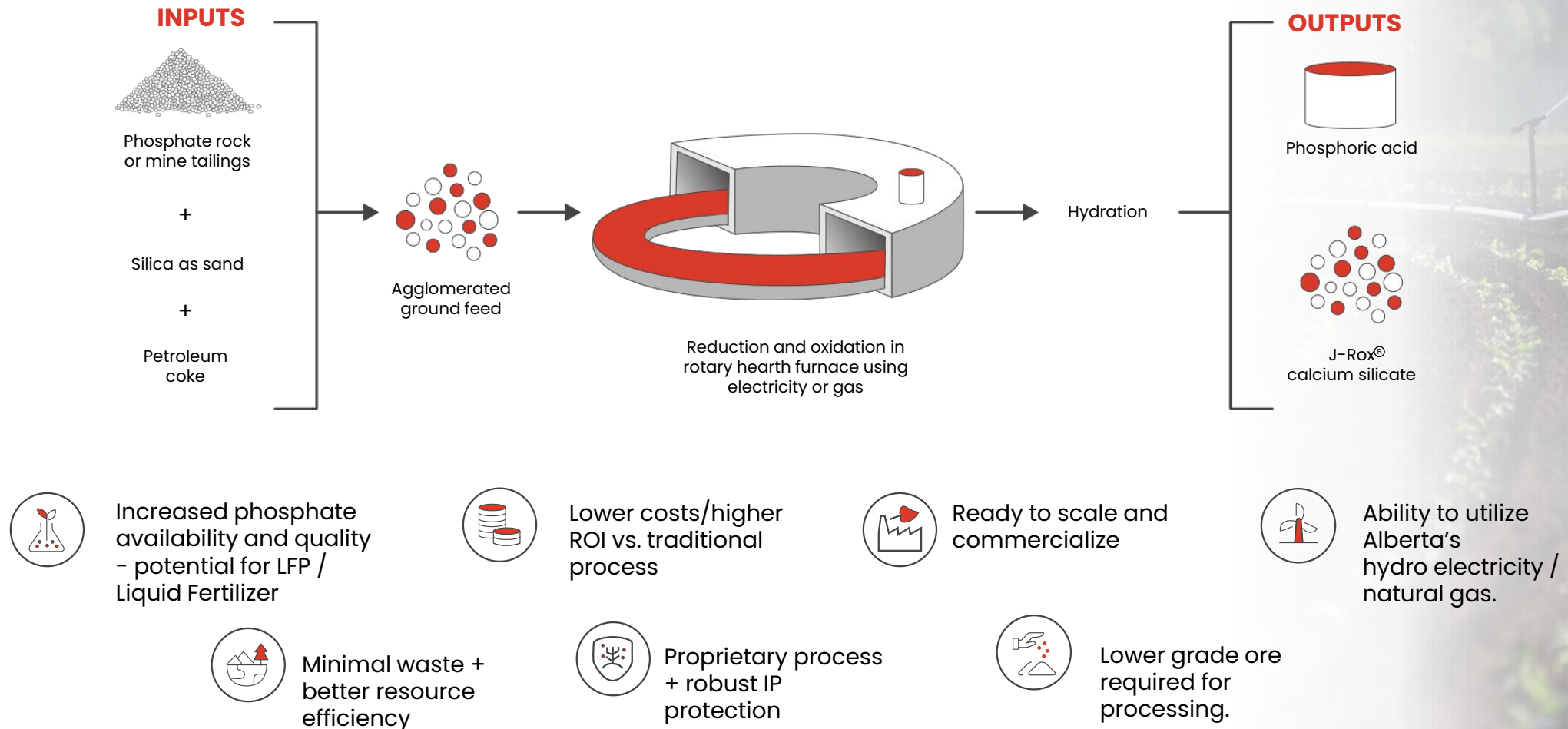


Rock Phosphate Pricing (Morocco)



OVERVIEW

Processing Technology Example



OVERVIEW

Mining Technology Example

STEP 1 Calculate Economics

Software calculates economic returns and creates a Surgical Mine plan.



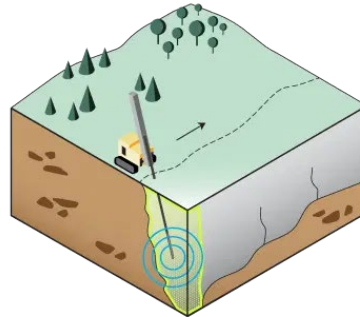
STEP 2 Map Orebody

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



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



OVERVIEW

Wapiti Mineral Resource Estimate*

Depth below surface max (m)	Category	Tonnes (M)	P ₂ O ₅ (%)	Al ₂ O ₃ (%)	CaO (%)	MgO (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)
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% P₂O₅ cut-off, Density of 2.85g/cm³, 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](#)