Chatham Phosphate

Advanced rock phosphate project in New Zealand



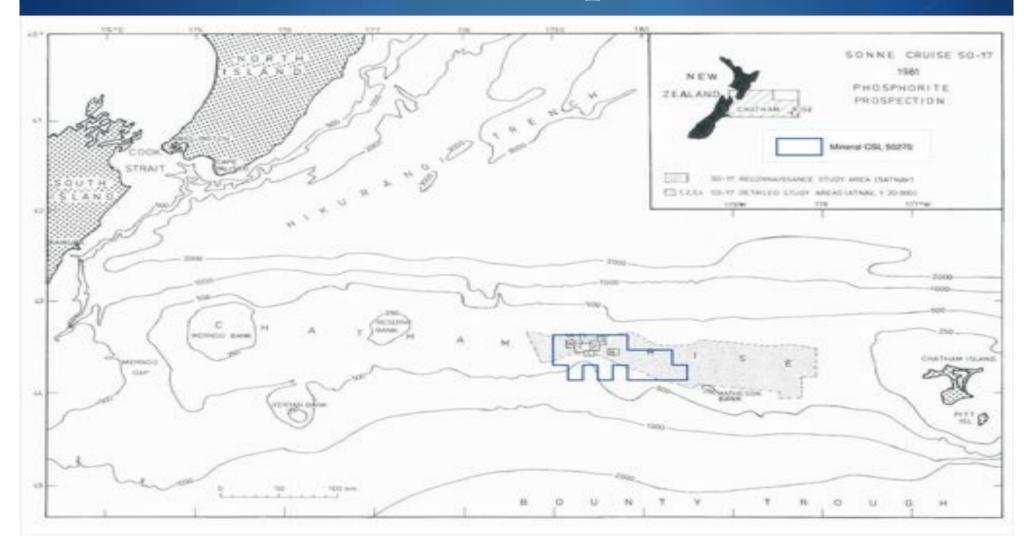
The Opportunity

Chatham Phosphate has rights to NZ's only major rock phosphate deposit of 30+ million tonnes

NZ imports 1 million tonnes annually, mostly from Morocco

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Well defined shallow deposit offshore NZ



MSL 50270 – map lines in metres beneath sea level

Scale: 450km from NZ to permit area

Chatham Phosphate

• Commercial production targeted within 2 years

- High quality product
- All NZ phosphate imported thus Chatham has a significant freight advantage

Chatham Deposit

Extensive exploration during 7 voyages collecting thousands of samples from 1952 to 1981 (spending some \$50 million) has defined Chatham deposit

100% Ownership

Permit covers 4726 sq km in shallow seabed and has bulk of resource

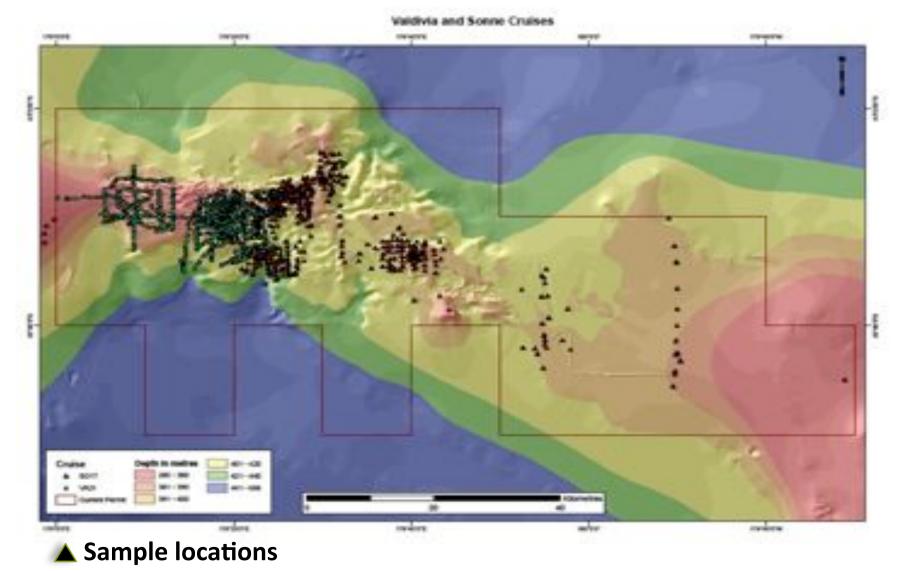
> Deposit grade: 20.5% P205

Geological Setting

Formed 7-12 million years ago by current action on limestone seabed

Deposit on seabed surface in 1 metre layer of fine sandy silt Nodules 2-150 mm in size and form about 13% of seabed layer volume





Production Costs

Leading companies plan to use dredging technology to recover phosphate

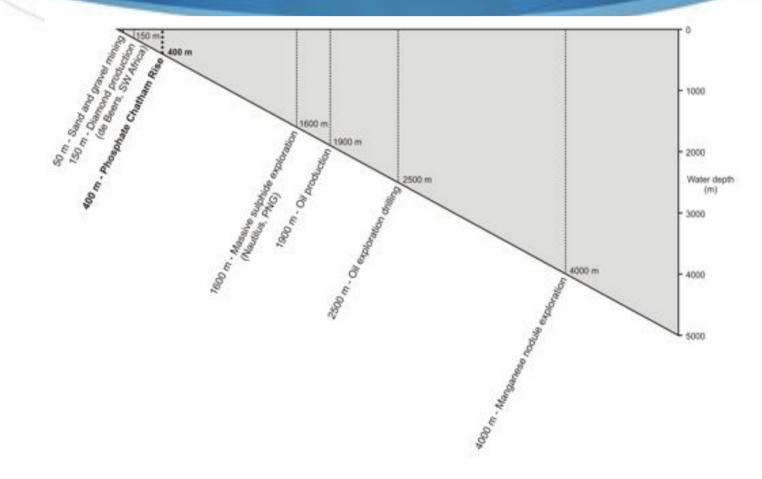
Recovery costs much lower than cost of importing equivalent product

Current freight costs from Morocco \$U\$75 per tonne

Dredging Technologies

- Seabed recovery unit with downpipe vessel
- Hopper dredge with multiple clamshell buckets
- Trailing suction hopper dredge

Seafloor Mining Depths



The NZ Market Phosphate producers Ballance Ravensdown Fertiliser NZ

 All NZ fertiliser companies showing strong interest in product and Australia also a market

Growth Profile

Phase 1: 100,000 – 300,000 tonnes Years 1 & 2

Phase 2: 500,000 – 750,000 tonnes Years 3 & 4

> Phase 3: 1 – 1.5 million tonnes Year 5 onwards – exports to Australia

Expected Operating Margin

- Imported material
- Chatham Phosphate

~\$160/t

\$225/t

- Chatham Phosphate operating cost \$75-\$100/t
- Chatham Phosphate margin

\$\$85-60/t

Strong Technical Expertise

Chris Castle - Project Leader Robin Falconer -Technical Lead, Chief Scientist Cam McKenzie - Project Geologist GNS Sciences – exploration programme management NIWA – environmental studies (GNS and NIWA – Crown Research Institutes)

Status of Commercial Evaluation

Pre feasibility study and valuation confirms commercial development is realistic



Reviewed data, environmental studies, underwater radiometric and seismic surveys

2011 Objectives

Developing extraction options with dredging companies

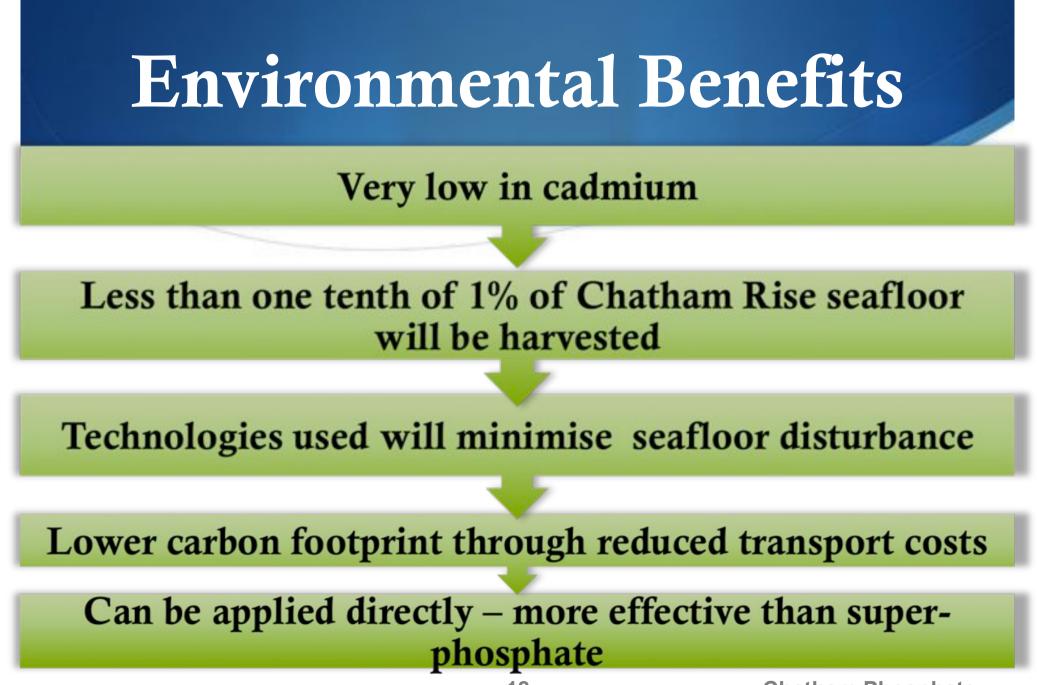
Defining resource

Environmental data collection

Seabed sampling

IPO to fund project to commercial production

Building market links



Wider Economic Benefits

Cheaper source with no foreign exchange risk

NZ balance of payments; reduced imports and possible export

IPO Preparedness

Massive information base available to complete 43-101

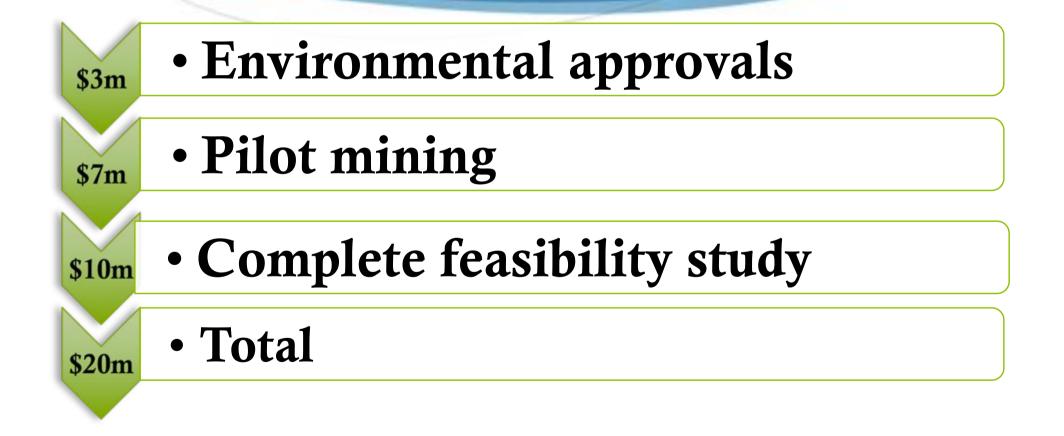
43-101 approve April 2011

IPO Strategy

Complete bulk samples, mining recovery system design, and all project approvals

Comprehensive trial mining programme Mid 2012 – definitive feasibility study and economics

Use of Funds



Timetable

June 2011: Complete \$25m IPO June 2011: Start detailed mining design followed by pilot mining

H2 2013: Start commercial production

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* Definitive feasibility study (commercial decision)

Chatham Phosphate

A long life deposit uniquely positioned to supply the existing NZ and Australian market

Contact Chris Castle

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