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Critical metals for a sustainable future

Our Company



Our team



Dato' Sia Hok Kiang

Non-executive Chairman

Mr Dato' Sia is Managing Director of the successful Malaysian private mining company, Malaco Mining Sdn. Bhd. He is a graduate of the University of Malaya in Applied Geology, an economic geologist with more than 30 years world-wide experience.



Eric Vesel

Executive Director / CEO

Mr Vesel is a qualified Mining Engineer with 35 years professional experience in the mining industry. He was formerly Chief Operating Officer for Avocet Mining PLC and has worked for both small and large mining companies in Australia, Namibia, Papua New Guinea, Indonesia, CIS and Malaysia.



Stan Wassylko

Non-executive Director

Stan has extensive experience in the resources sector and has 46 years' experience in businesses servicing the sector, in logistics, shipping, infrastructure, project construction, contract management and marketing.



Harun Halim Rasip

Non-executive Director

Mr Rasip is a Chartered Accountant who previously established Halim Rasip Holdings Sdn Bhd ("HRH") Group. During his time as Chairman and Managing Director, he planned, funded and developed the Lumut Port in the Straits of Malacca. He is currently the President Director of P.T. Tanah Laut Tbk., a Company listed on Bursa Efek Indonesia and based in Jakarta.

Corporate Overview

Share Price	Shares On Issue	Market Capitalisation	
\$0.016	367.2m	5.9m	
T20 Shareholding	Cash	Debt	
90%	10K	Nil	

Commodity Exposure

Rare Earth Minerals 60 Nd 59 Pr 66 Dy 65 Tb



Industrial Minerals

Ilmenite, rutile, zircon and aluminum

Charley Creek Project Overview

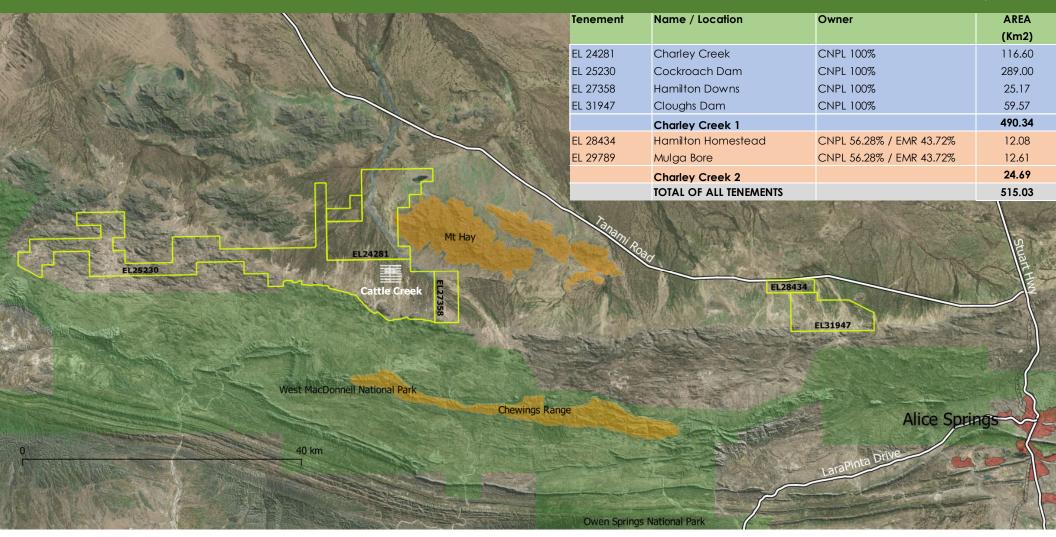




- ✓ Large rare earths and industrial mineral deposit within a 100% owned, 515km² tenement package
- ✓ Located in a tier-1, pro-mining jurisdiction
- ✓ In 2013 release of resource statement (2004 JORC)
- Near surface mineralisation, bulk tonnage mining potential
- ✓ Situated on open land nearby to rail and road transport network for export routing
- ✓ Extensive metallurgical testing and understanding
- ✓ Further exploration upside from under-explored areas, well understood regional prospects
- ✓ Growing demand for rare earth and mineral security by western governments

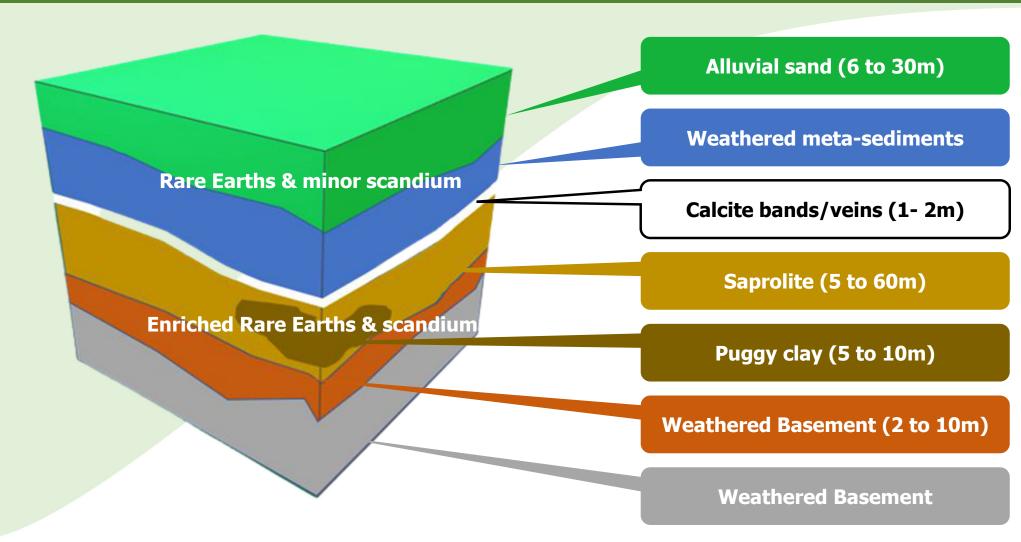
Tenement Holdings





Charley Creek Geological Horizons (Simplified)





Alluvial Resources*



* As announced on ASX 15th April 2013

RESOURCE	Mass	Weighted Average TREO	Contained TREO	Contained Xenotime	Contained Monazite	Contained Zircon
	Tonnes	ppm	kg	kg	kg	kg
Cattle Creek Indicated Resource	249,900,000	280	69,900,000	17,600,000	97,200,000	124,650,000
Western Dam Indicated Resource	136,960,000	323	44,150,000	9,675,000	63,700,000	70,930,000
TOTAL INDICATED RESOURCES	386,860,000	295	114,050,000	27,275,000	160,900,000	195,580,000
Cattle Creek Inferred Resource	353,210,000	291	102,750,000	26,450,000	141,075,000	183,750,000
Western Dam Inferred Resource	65,232,000	282	18,350,000	4,240,000	26,160,000	36,230,000
TOTAL INFERRED RESOURCES	418,442,000	289	121,100,000	30,690,000	167,235,000	219,980,000

[&]quot;This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported."

Rare Earths at Charley Creek

- 60 Nd
- 59 Pr







- Focus on drilling Cattle Creek prospect, with most of the tenement area unexplored but highly prospective for mineralisation. Western Dam prospect awaits re-drilling,
- Near surface and simple orebody to underpin potential open pit bulk mining
- Preliminary test work demonstrates that valuable rare earths may be extracted via costeffective gravity separation of the upper alluvial sands, and leaching from the saprolite clays
- Further drilling, gravity concentration testing and leach testing is planned for 2022
- Resource upgrade and Scoping Study planned for 2023
- Well placed to leveraged demand for rare earths minerals from tier-1 western jurisdictions













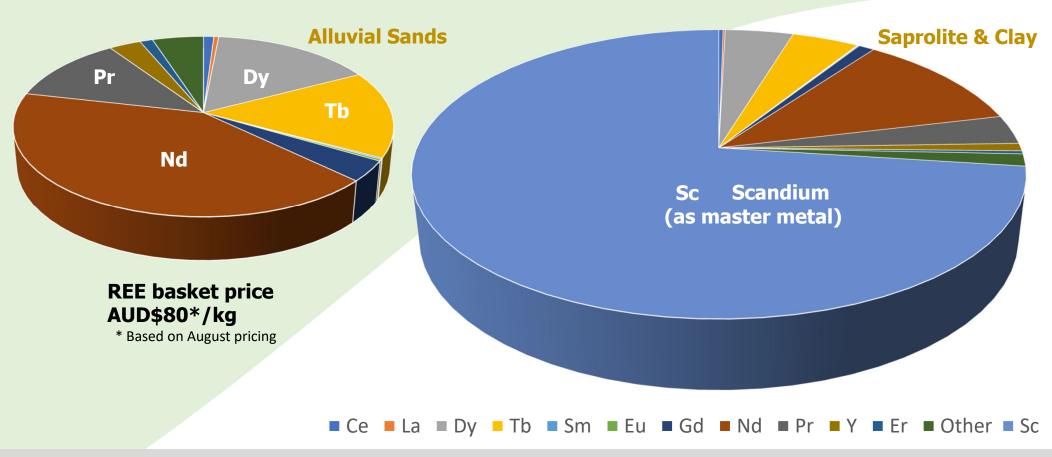






Charley Creek Basket Price (% value from REO & Sc)





Sc master metal alloy price typically US\$100*/kg (@2% Sc)

* Discounted pricing based on scandium-alloy (US\$350/kg) taken from U.S. Geological Survey, Mineral Commodity Summaries, January 2022

Scandium at Charley Creek



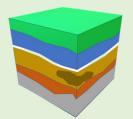




Cost Effective and Scalable

- ☐ Scandium is a low volume, high value product
- ☐ Potentially long mine-life due to depth of saprolite and extent of mineralisation
- ☐ Ideal conditions for low-cost mining, free-dig sands and silts
- ☐ Easily accessible to services from Alice Springs
- ☐ Opportunity to duplicate operation at adjacent prospects at Western Dam and Dad's Dam deposits

Resource



- ☐ Cattle Creek sufficient drill coverage to complete orebody, extensions are possible with more drilling
- ☐ Large zones of saprolite and clay with elevated Sc, REE and Al grades identified in model
- ☐ Cut-off/cut-over grades are expected to be low based on test work and current cost estimates

Processing

- Natural concentration of scandium into fines (<100 microns),
- ☐ Plans for on-site acid production facility will be efficient providing acid, tank heating and power cogeneration
- ☐ Tests to date indicate fast leaching and high recovery of Sc using heated acid leach, further validation tests are needed.
- ☐ Low environmental impact expected due to abundance of calcareous material to neutralise leach tail

Scandium and the Future



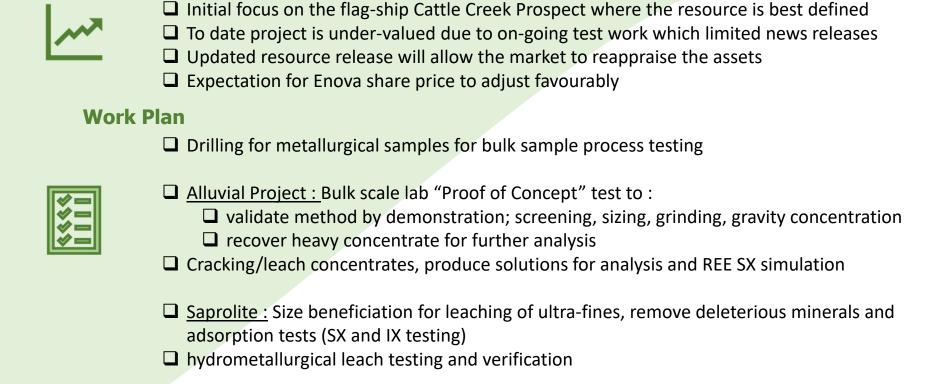
Enova Scandium Market Strategy



Cattle Creek Prospect – Next Steps



Completion of Operation Concept & Resource Statement (update)

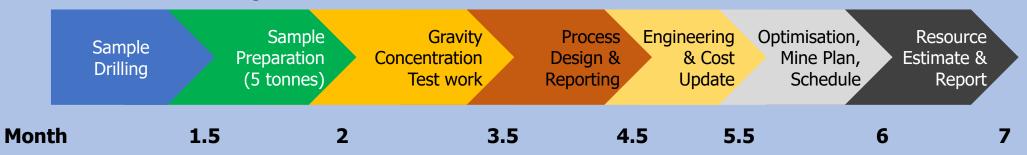


☐ Process engineering to complete RPEEE and update/publish resource statement

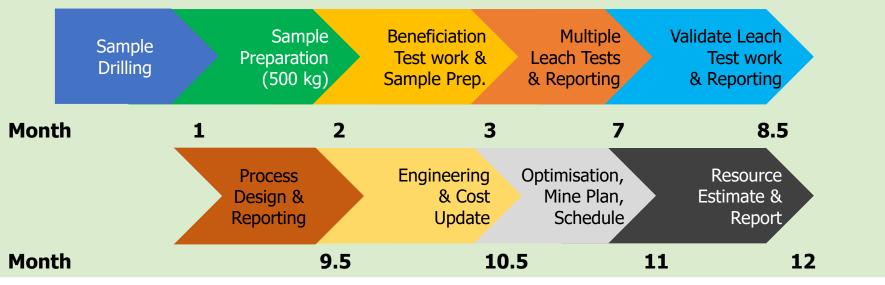
☐ Pit optimisation and mine planning to ensure ore supply

Cattle Creek Project Work Plan

Alluvial Development Plan



Weathered Rock (saprolite/clay) Development Plan



Enova's Work Plan Budget



	Budget AUD\$	Months
Drilling/Sample preparation, freight and assaying		2
Gravity separation testing	65,000	1.5
Process concept engineering and costing review update	65,000	2
Resource model update, mine planning and reporting		1.5
Alluvial Sands Project Gravity Separation and Concentration Bulk Testing	260,000	7
Sample preparation and freight		2
Hydrometallurgical assessment (KL)		5
Hydrometallurgical test work verification (AUS)		1.5
Engineering/Competent person review		2
Mine planning and reporting		1.5
Saprolite/Clay Project Beneficiation and Leach Hydrometallurgy	240,000	12
Company Operations Corporate governance, tenements, admin. charges	200,000	12
Budget Total	700,000	12

Potential Operational Concept



Mining

- ☐ Open-pit free-dig mining (sand, silt, clay -> low cost)
- ☐ Bulk mining operation with low strip ratio

Two processes one operation

- □ gravity plant for alluvial sands screen → deslime → cyclone classification → spirals concentration
- □ **leach plant** for weathered rock (saprolite & clays) ultra-fines concentration → acid leaching

Refining

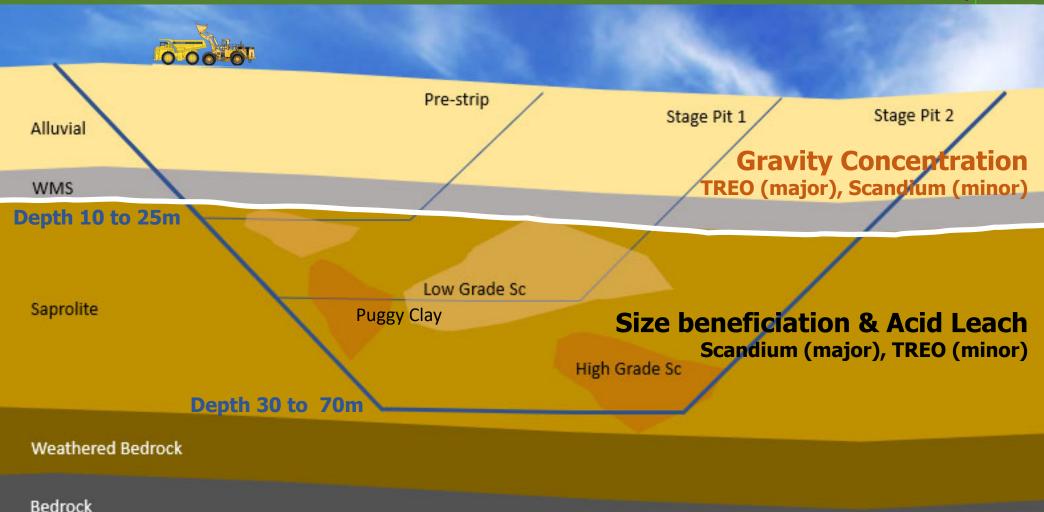
- ☐ Cracking of monazite/xenotime with on-site solvent extraction
- ☐ Separation of mixed rare earth concentrate to rare earth oxide group products

Identified Potential Products

- □ Rare earth oxides : Light (Ce,La), Magnetics (Nd,Pr), SEG (Sm,Eu,Gd), Dy/Tb, Y Mix (Yb,Y,Lu,Ho,Er)
- ☐ Scandium master metal : 2% Sc / 98% Al
- ☐ By-products (gravity concentration): zircon, hafnium, rutile, ilmenite
- ☐ By-products (leaching circuit): alumina/HPA alumina

Mining & Process Concept





Enova's Commercial Outlook





Demand and lack of supply

- ☐ Ever increasing world-wide demand for rare earth metals (REE),
- ☐ Scandium (Sc) commercial usage is gaining momentum,
- ☐ Enova provides an opportunity to lead the world's Sc market,
- ☐ Scarcity of supply of critical metals and increasing demand,
- ☐ Lack of companies with minerals to execute responsible and sustainable production,

Smart Metals



Availability = Development of new applications

- □ REE and Sc additives create materials with new high performance qualities for future technologies
- Electronics/electrical products need REE and Sc for efficiency and unique properties,
- **Sc** availability allows improved technology to be developed in green industries, such as hydrogen generation (SOFCs, RSOC and RFC)

Contact us

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For any questions, head to our investor hub

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