# Korella North leading Chatham forward

Presentation

22<sup>nd</sup> August 2023, AusIMM NZ Conference Chris Castle, CEO and Managing Director Colin Randall, Executive Director **Chatham Rock Phosphate Limited** 

### Corporate

- Listed as CRP on NZX New Zealand, NZP on TSX-V Toronto, Canada and also on Frankfurt Bourse
- Over 3000 shareholders
- Market Capitalisation CAN\$11.7 million(at 16/8/23)
- CEO and Managing Director, Chris Castle New Zealand
- President Directeur General- SAS Avenir Makatea Etienne Faaeva-Papeete, Tahiti, French Polynesia
- Executive Director, Colin Randall Cloncurry, Queensland

# **Company Outline**

- Low cadmium phosphate
- Chatham Rise undersea project New Zealand
- Makatea mining/rehabilitation/eco-tourism project
   French Polynesia
- Korella phosphate projects Queensland
- Pacific Rare Earths Limited New Zealand/ Queensland



### New Zealand – Chatham Rise phosphorites





Typical dredging vessel 235m Conventional Trailing Suction Hopper Dredger – one of 91 such vessels in the world fleet (IADC Fleet List – January 2019)





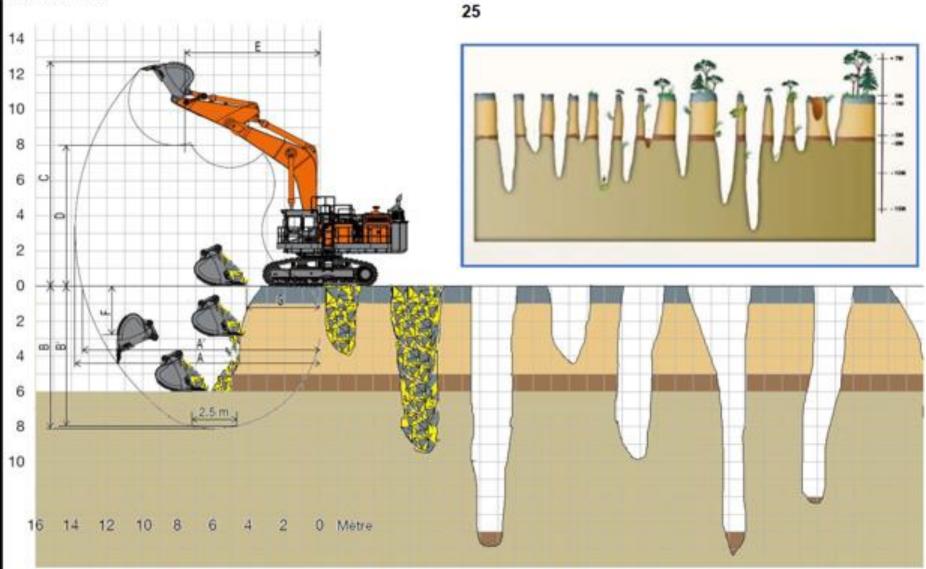
Avenir Makatea





#### HITACHI

Filling of the holes in order to enlarge the bench and to proceed with the aspiration of the phosphate in the others hole bottoms # 25.



Filling of holes previously emptied of their phosphate and loading of trucks if necessary.

The advantage of installing a excavator at height makes it possible to select and load into the truck the different qualities of materials constituting the walls of feo # 26.

Korella Phosphate Cloncurry NW Queensland



#### **Korella Phosphate Projects**

#### **Korella Fertilizers**

- Cloncurry Distribution Hub Round Oak Road
- Korella North EPM 28589 Domestic/Export from Q3 2024
- Korella Central ML90209 Court proceedings to enforce contract
- Korella South EPM 28187 Export from 2026

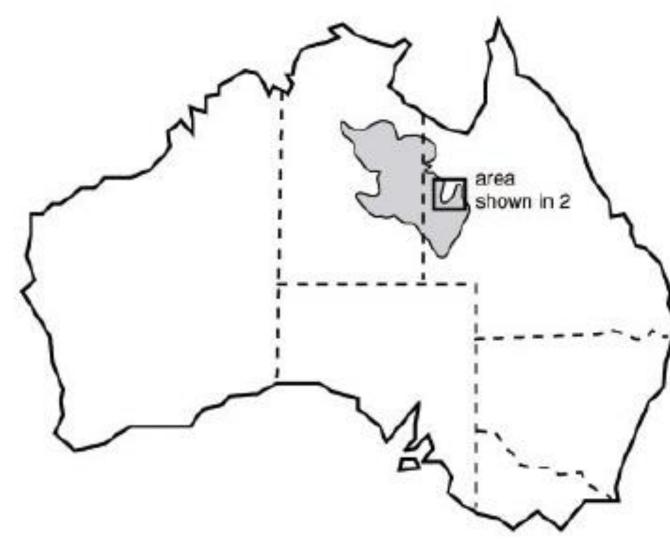
#### Korella Terminals

- Korella North 2Mtpa capacity bulk rail loading facility
- Port of Townsville 5Mtpa ship bulk loading facility

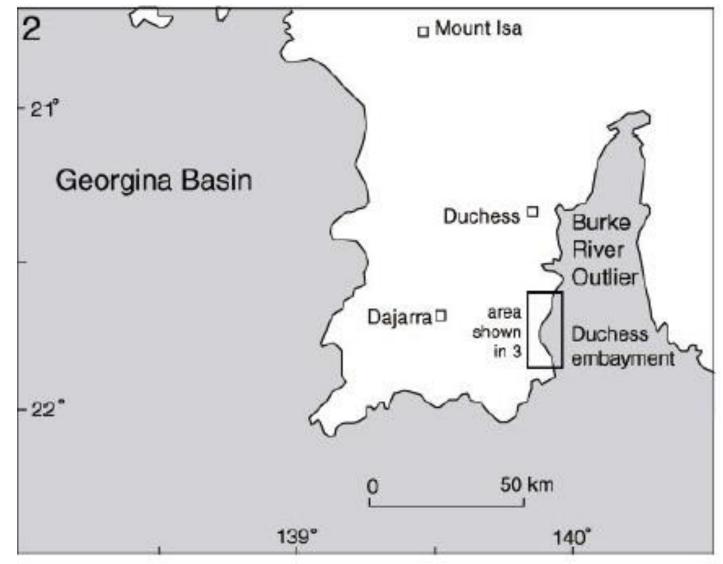
Korella MCP – Cloncurry based monocalcium phosphate plant



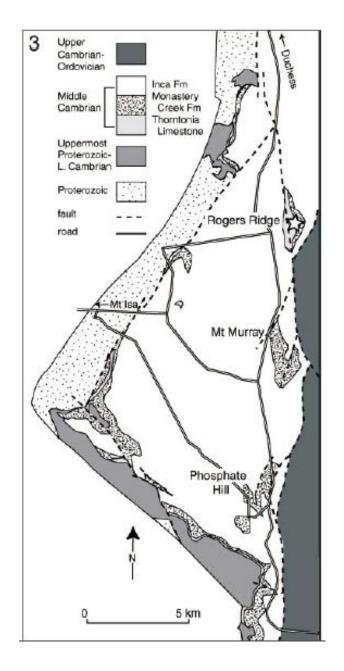
## **Georgina Basin**

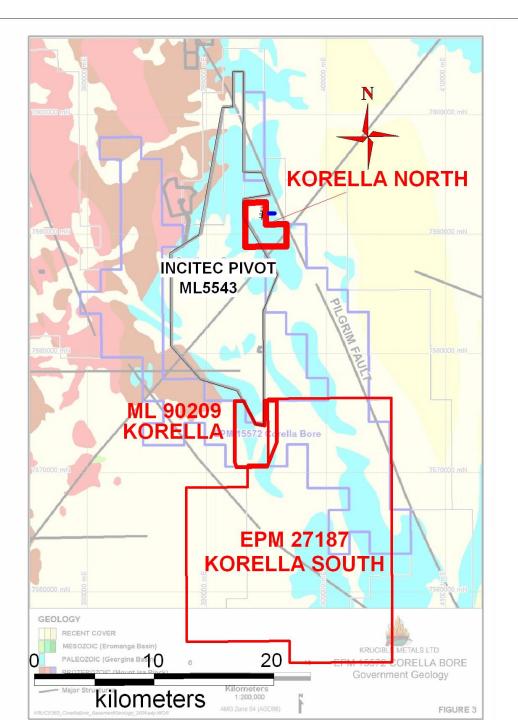


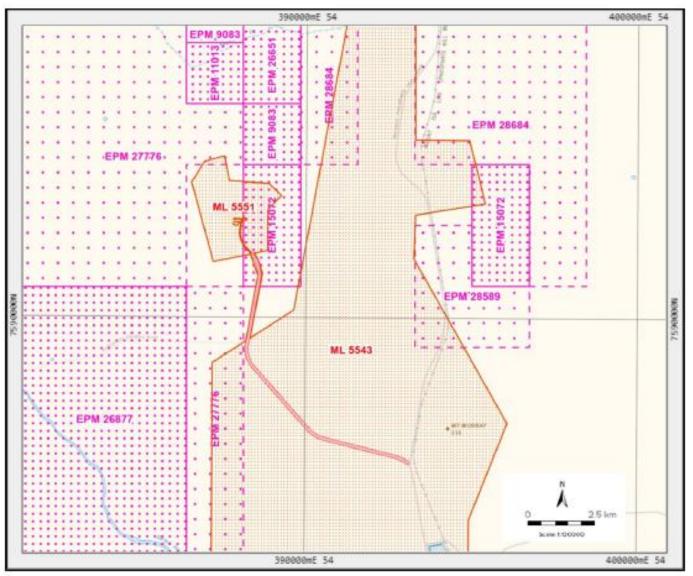
## **Duchess Embayment**



# Western shoreline



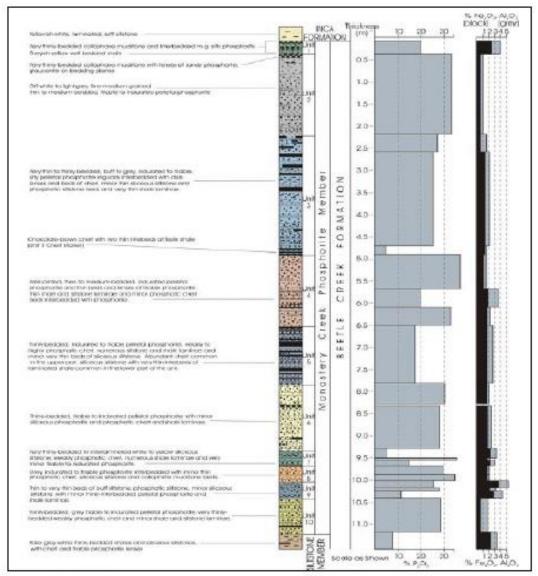




Source: Qld Government - https://georesglobe.information.qld.gov.au/

#### Monastery Creek Phosphate Member

Stratigraphic Column



Source: WMC Fertilisers.

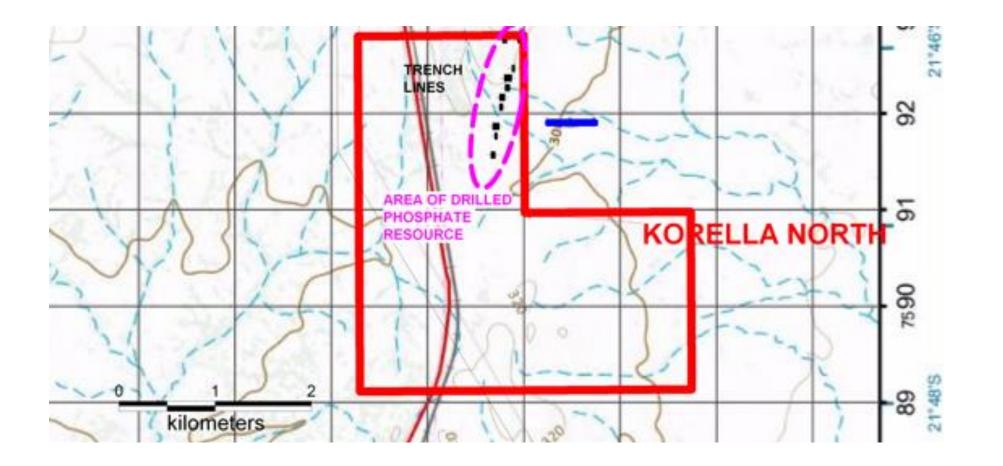
# Full 22m

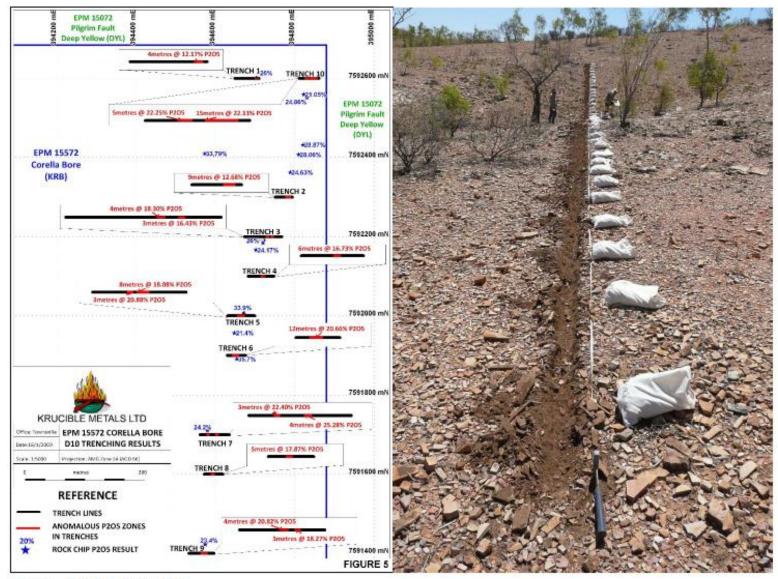




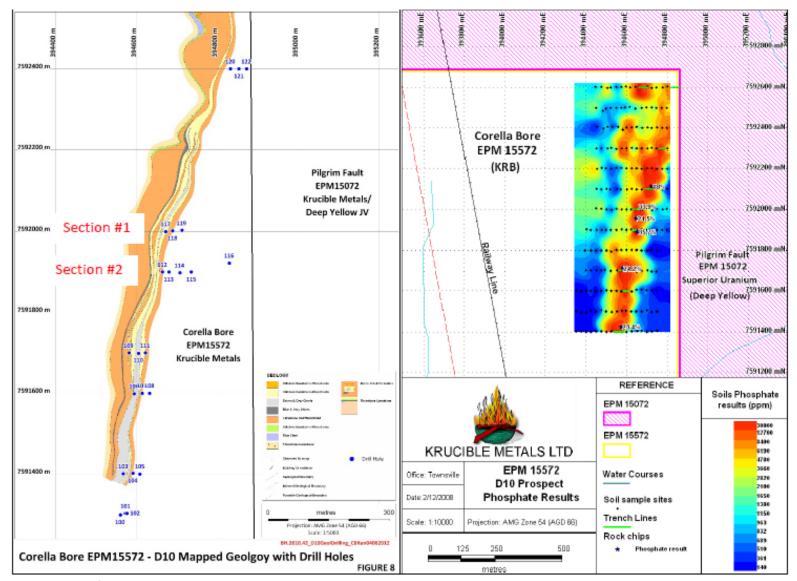
### Korella North EPM 28589

Previous exploration 2009-2011 including drilling and trenching

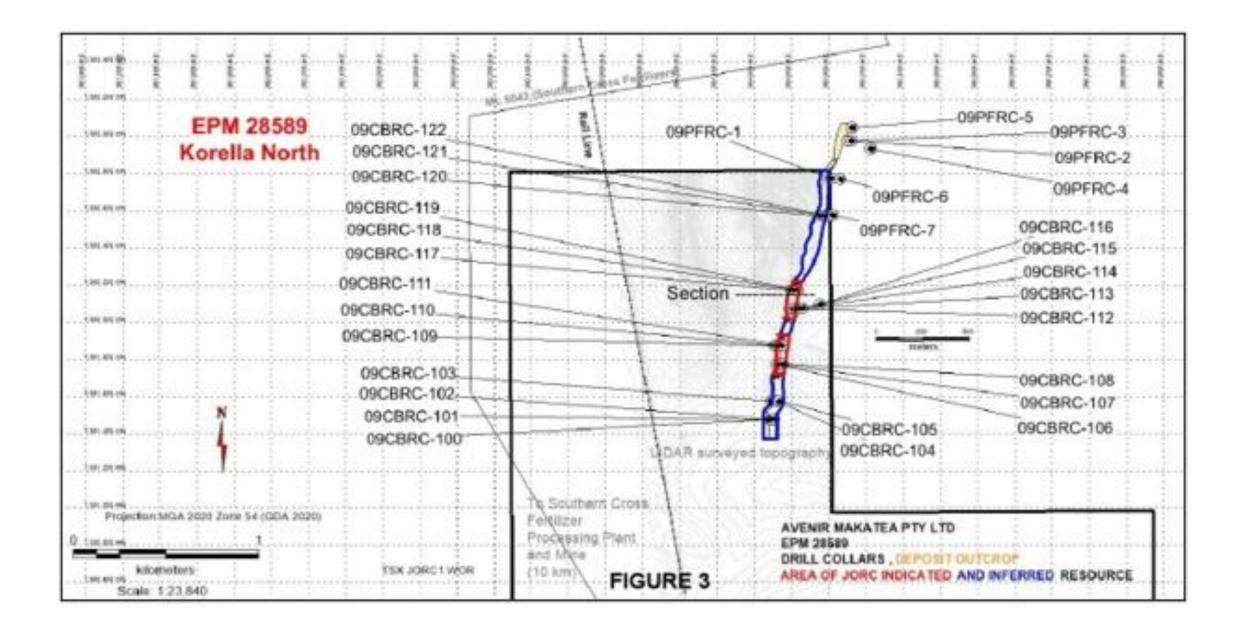




Source: AM data room, 2023.



Source: AM data room, 2023.



2. 1		-			e	e .	r 1		e			2.1	1	1	e .	e		÷ .	F 1				1	1.1	1	1		100	1	2	1	1	2	2 2	~ 2	- 2		1	1	1	2	25	2	2	2	- 2	- ×	
-				-			1-1	1		1	1	te .	1001	14C			ġ . 1	10 · · ·	÷.1	1.1		1	1	1	1.001	1 about	- 1	- 10	- 10-	1	100	Q		1	- 1		1		-2	- 10	1	-	*	1	1	1	1	-
110	-		š.	0.0		1.1.1	5							ia. 1. 1	1010				1.1.1	114		115	(7) <b>h</b>	11.00	an fr	114	1.20	1	1.19	4	50	÷	103		?	en p	ù ŝ		112		1.1	in.	100	4.00				14
1.1				1.5										÷	1.1					. 4			11	1.3		. A.	12.	1.	1.8.	4	â.,	÷	1			. :	1.1.	1.	1.3.		÷.	£.,	÷.,	1	5	. F		en:
	13						1			1			:	1			6 3	5.1		1	1	1	Ť	. 1		1	1	3	16	3	i.	1	1		1	1	1	- 11	1	1.	1	Ť.	1	1	2 3	E		
100	13	••••	212			1.1.1						-	****	5	1000					1.1.1	22	11.1	100	1.1.1	- 19	1.21	*****	34	- 19.7	1	1	****	2003		119			***	- 7	-		100	10	310		1	- 40	194
have			ke			1.1.1				+++3	in.	ç.		à	11.11		herei			11.1				1110	-		- Are	de-	ester.	dir.	ŝ.,		in the				in in		45		-\$-+	50				hin		195
	11						1		-			1						1.1		1		1		-		11	13	3	1	1	1	÷			1	1	1.3	- 31	-	1	1	8	1	1	5	8. E		-
	1		813				100		116			1		1	100					1			1		1010	11	2	Ч.	10		3	1				1		1.1	1		14	1	10	1			1.5	
					****				+++		***			÷			÷;		****	1		***				112	to-		+ * * *	.3	17			.0	-+			+++	-12-		12.11	4.		-		1		197
1.	nii.	i	1.0		6.6	2.2			+++2				i	ä., ,	1			1.1.				1.1.5			112	200			. Š.,	G.	Ş.,	÷	1.1	2.1				i.i.	1.3.	. in the second	.a.,	. A	1.	4				iei
1	13	1			1 5		1		1	1	32	÷	1	1	1 1				1	1	: :	1		-	S.	P	. A A	4	P	÷.	4	1	8	2	1	: 1	- 4	- 1	-	-	1	÷.	1	1	1	1		-
1	1		1.4		199							500		1	1					13		1			.a.		1	1	şr	1	1	.8	ſ .		1	1	19	1.1	1	19	1	1	1	1			12	
11.2	1.1	***	111		(ever)	1.15	\$	11.1	1 = 6	)		Çe e e		ф. т.,	1.00		tract		+1+3		111	119		11.12	Ani	112.5	+ 1/2 + 1	-	9	11-1	Q	2	2413		***	e) et e	÷	-+ (+	1.2	1997	12-1	4.0	1.1.1	4.00	1 4 4 4	1 f.		14K
1.5									1.2	1				h.,	120		5	1.8		1	S				3	5	1.2	ß	3	1	÷	And	1						12		÷	1.	1.	1.0	5			-
1	1				1		1		1 3	-	84	5	1 3	8.	1.1					1	1	1	1		7	2	S	3	7	-	1			1	1			1	. 8	1	÷.	÷.	÷	3 3	8.3			
13	- 2		ğtit		277		1	1	110	11.13	120	100	1000	1	1	1				1	223	1	13		p	12	1		187	1211	E	ST.			1	11		- 15	-33	13.1	1	100	1	12	P=9		- 59	1
- 2-	-14		See		4.48	1		1.1.1						h						r é			1	87	+- +1	in the	20	7	Sec.	4.1	89	<i>R</i>				2.1		-ski	- 6		4.			4.1.1				re:
1			6.13				:		1	5.0			1	1.1						. 3	0.4		-	1		1	$\mathbf{z}$		1	1	27	1			6.4	1	0.5	1	1.3		1	1	1	1.1		1		
1			5							1		1		1	10						1	1			N.	1	P	97		10	6	2			1	11	1	1			1	1	1	1	5		1	
107		(	910			2.00		11.5	· · · · ·			ţ		÷	1	••••	pini		+++		cer]	***				8	9	-t-	****		· · · ·	200	5.0					·•• {•		· · · · ·				4.14	[ · · · · ]			18
	44													1.00													1	а.	. 6	27		i		S				nî.				÷.,		1				10
1	18						. 1		114	1		÷	;	£	10.5		1	1111		1			4			2	X			1	1	2	1 ;		~	1			1		1	1	1	:	1	1		2
19	17	- 1	12				11		1.5	1		217		9-+	111		[****]			714			19		12	13.	1.00	Y	20	1	377	÷	123		- 5	1	22	122	명권		32	÷	1.	211	5.44	2018		T
									11.0					<u>.</u>						11.4								44			÷.,	÷			***	61.B			1.33		÷9++		÷	i.e.				ine;
	.81		10		223	1.1.5				nd.		1	i	1	i		I			- 4			. 4		1.31		. i.,	£.,		2	A	ŝ.,							1.23	20.	3â.,	. ż	â.,	1.1				
			1							1		-	800	-						13			- 5	3	1		1	18	÷	1	-	S.			1		22		1		8	÷	1		1			
17			212	17.4		2.55		22.17	NU15	1113		110	1171	200	A 4 4 4		2	2.55	111	112	1113	113	2.12	112	1111	122		12	1121		12.00		5		11.5	27	1.11	*****	122	921	12.11	1211	10	1111	2.45	0.12		
			S.,				;			;		÷		i	1			S., J							- 1		- A-1	de.	-de	.i.,	÷	÷	1.3	~				- 4			÷.,	÷.,	.i.,	4				ie
1.3	10	1		1			;		1	. ;		1		1	1.54					;	1	1	1	1	1.2		4	4	4.	1	3	2		1	1	1	1	4	1.	18.	Q	5	1	1		1	. in	2
	195				1.3		1		2	1		2	£173	1	100					1				1	1	191	1	32	195	3	3	2	1	3	113	1	23	133	1.5		2	1	2	1	5			1
			-+++		1	2.56					2		i												49			÷			<del>.</del>	÷			1-	-	- de			- 60	18-1		- 200	+++				ee.
		u.j		÷.,	1		1.1			1.4		i.	i		in a		. in	1.1						a de la	. de		de.	4.	di.	ä.,	å	i	1.3								÷.	See.	in.	3.14	1	a.d.		ie
ž	王	ī	1		Ĩ	Ĩ	E	Ŧ	1	夏	1		1	E 1	1	ž	1	1	E	夏	- E	÷Ē	王	ž	E	Ŧ.	1	夏	E	Ł	1	ΕI	1 2	E	Ē	1	1	E	E.	Ŧ.	Ē	E.	1	1 1	ĒĒ	E		
雷	송	12	12	1	1	12	12	12	: 술	··	. 3	1	1.13	1	1.1	1.2	1	1.12	12	12	12	: 같	12	1	2	121	·2···	\$`;	÷.,	\$~^		1.1	1.3	12	雪	· 2:	÷	(書)	121	÷	1	\$**!	21		1.2	: ĝ:		1
1.3			ne	ine.	lesx,				44.2			Can p		a.i.	in ?		and	i.i.i	+++3			44.2	1.2	in sta	ALTE	144,0	a des	in	-	. inc	A		TAN.		e		in	in a	100		See	Sec.	a.	der.		in		èt
739	). 6. r	m. 3	12	9 n		-		Ec	itin	e: N	loo	e 4	-		5	dec	tina	: N	one.			Nor	Ear	th (	mete	ersl					1	defa	ult .															
Contraction of the					-					100		-																																				_

#### Figure 5-4. Drill Section 7592077 mN (Section #2 in Figure 5-1).

🐼 Base_112_113_114_115,,N7592077S Map 🔷 ×	ATKCollars,,Korella_Phosphate_	_23_051_1m Map ×	🚾 SectionLines_Korella_North_Dri Map	× v
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 314 Jacobi - 314	<ul> <li>March 1990</li> <li>March 1990</li></ul>	10000000000000000000000000000000000000	- 241 20084
\$20000. \$1000	e e e e e e e e e e e e e e e e e e e	and the second		iners iners iners iners
фаниц		· · · · · · · · · · · · · · · · · · ·		
			X	
	i de la companya de la			
				irana Maret
	* * * * * * * * * * * * * * * *			

#### **PRODUCTION PLAN**

100,000 tpa in initial years building to 250,000 tpa

Initial production of Direct Application Soft Rock Phosphate 9 % P Crushed and screened Slzed 5mm x 2mm, 2mm x 0mm

Match dry land cotton planting in March/April 2024. Export potential



#### Domestic – Delivery by road train





#### **Domestic - delivery by road train**



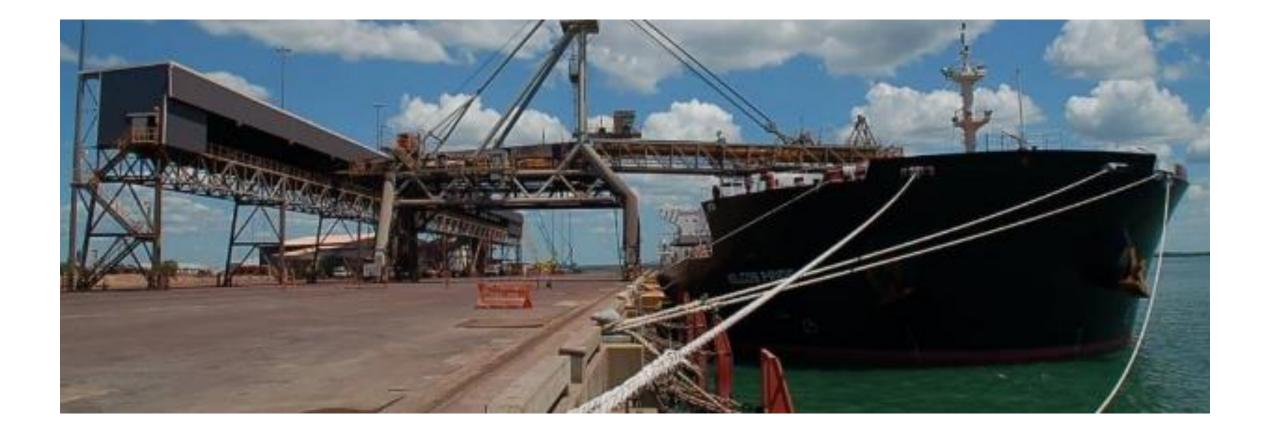
#### Port of Townsville



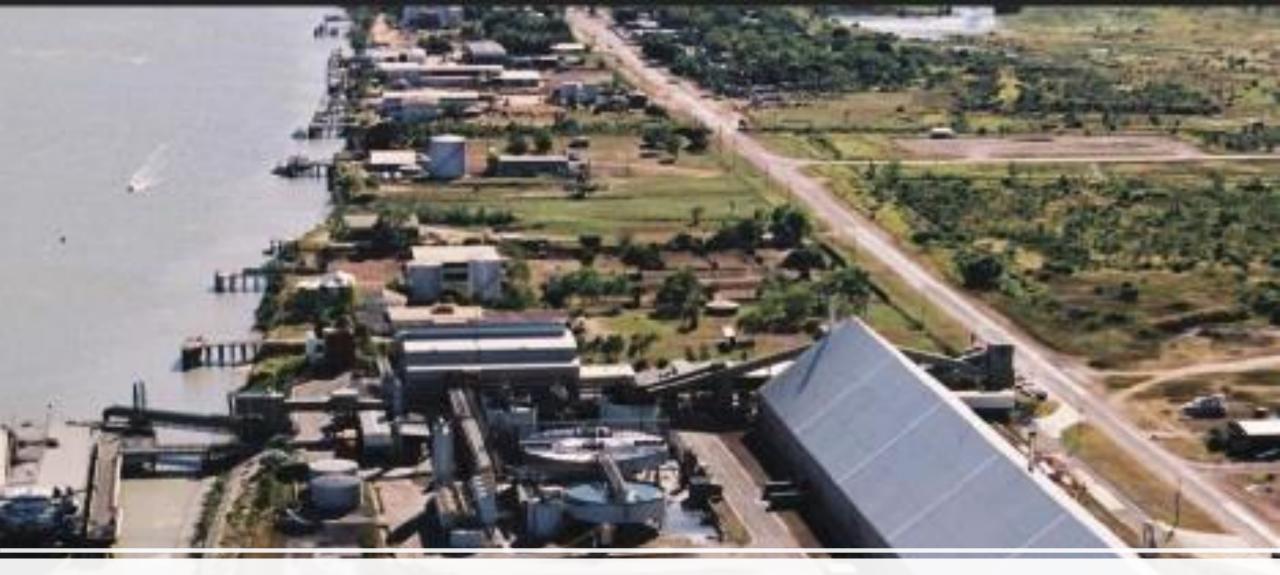
Export – Transport to Port in half height containers

# Export Rotainer for half height containers





#### **Port of Darwin**

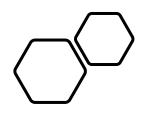


#### **Port of Karumba**

## Korella North – Train loading facility

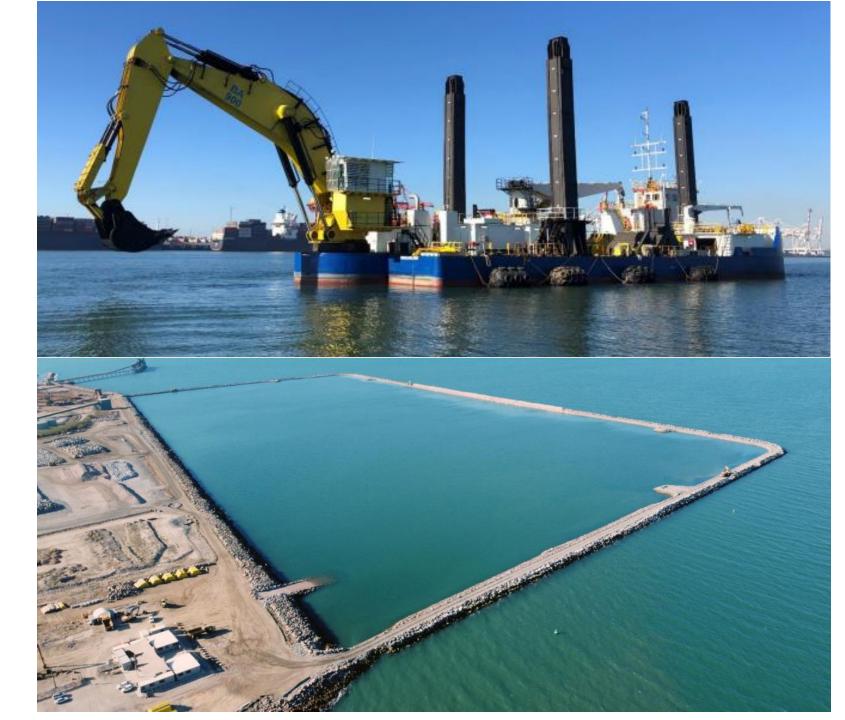
- 1000 tonne above rail bin
- Loading 5000 tonne train
- Loading time 2 hrs





#### Port of Townsville Expansion underway Bulk phosphate ship loading facility

- Potential for use of existing facilities in 2024
- Potential first bulk seaborne phosphate through new facility in 2026-2027



## Port of Townsville Bulk phosphate ship loading facility

