

Ticker: RBW LNNet cash: £2mProject: PhalaborwaMarket cap: £57mPrice: £0.119/shCountry: South Africa

RECOMMENDATION (unc): BUY TARGET: £0.35/sh (unc) RISK RATING: HIGH

Rainbow's announcement today has three key takeaways in our view. First, by gaining exclusive rights to licence K-Tech's IX technology, Rainbow has enhanced its first mover advantage in seeking to develop REEs from phosphogypsum, particularly in South Africa where high grade phosphogypsum from carbonatites may be available. Second, this confirms our prior expectation that Rainbow will seek to produce separated rare earth oxides to capture ~90-100% payability vs stopping at a mixed REO carbonate for ~60-70% payable. In our view this is logical on a standalone basis and also could present an opportunity for Rainbow to become an upgrader of third party concentrates as well. Finally, continuous IX is a well understood process for uranium extraction and, noting Rainbow's stated intention to develop a separated REE oxide pilot plant as part of pre-development DD, we believe this represents a highly attractive risk-reward opportunity for the company. The most proximate major catalyst for Rainbow remains the PEA, which we expect in Q4. We maintain our BUY rating and 35p/sh price target based on 0.5x NAV_{8%-80/kg}. Stepping back, we believe that Rainbow offers a significantly better risk adjusted return profile for critical NdPr due to infrastructure in place and the already treated nature of the mineralisation.

Continuous IX and CIC route selected for downstream processing

Rainbow Rare Earths announced it has entered an exclusive IP licensing agreement with K-Technologies (K-Tech), a company based in Lakeland, FL, USA.

Agreement Terms: Rainbow has secured exclusive IP licencing rights for use on separation of rare earths from phosphogypsum, for a period of four years, across the South African Development Community region, including South Africa, Botswana, DRC, Madagascar, Malawi, Namibia, Tanzania, Zambia and Zimbabwe among others. A licencing fee of up to US\$5.5m per project will be paid as part of construction capital.

Technology: Rainbow has secured IP rights on continuous ion exchange (CIX) and continuous ion chromatography (CIC) IP for separation of rare earths into separated rare earth oxides or carbonates. The K-Tech process uses fewer stages and reagents than traditional solvent extraction technology. The process eliminates the use of toxic and highly flammable solvents and diluents. The technology has undergone successful bench and pilot scale testing in separation REEs from leach solutions.

Why we like Rainbow Rare Earths

- 1. Tailings project located on existing industrial facility results in low capex and opex
- 2. High per tonne value due to NdPr, Dy, Tb assemblage and ability to produce beneficiated product
- 3. Proven management team that has built numerous mines and tailings projects

Catalysts

- 4Q21: PEA
- 2022: DFS, pilot plant and end of year financial investment decision
- 2023: Construction
- 2024: SCPe ramp up, commercial production in 2025

Research

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Ticker: RBW LN	Price / mkt cap:	:	£0.12/sh, £5	57m		Market P/NAV:	0.16x		Assets:	Phalaborwa	
Analyst: J Chan / B Gaspar	Rec / PT:		BUY / £0.35			1xNAV _{2Q20} FD:	US\$1.03/sh		Country:	South Africa	
Group-level SOTP valuation	2Q21	3Q21E				Resource / Reserve	Mt	% TREO	000t REO	000t NdPr	EV/t NdPi
		US\$m	O/ship	NAVx	£/sh	Measured, ind. & inf.	38	0.43%	165	48	1,569
Phalaborwa NPV 3Q21E		530	80%	0.50x	0.40	SCPe Mine Inventory	38	0.43%	163	48	1,586
Central SG&A & fin costs 3Q21E		(106)	-	0.50x	(0.11)	Commodity price	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Tonnes outside mine plan (5% insitu va Cash and restr. cash 2Q21	alue)	3	100%	0.50x 0.50x	0.00	NdPr price (US\$/t) Share data	83	83	80	80	80
Cash from options		1	-	0.50x	0.00	Basic shares (m): 478.9	FD+	options (m):	487.6	FD/FF	786.0
Debt 2Q21		(1)	-	0.50x	(0.00)	Ratio analysis	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Gakara		75		0.50x	0.08	FD shares out (m)	584	786	786	786	786
1xNAV8% spot fully diluted, pre-fund	L	504			0.37	EPS (US\$/sh)	(0.00)	(0.00)	0.00	0.09	0.09
Assumed equity raised to first product	ion	65		0.50x	0.08	CFPS before w/c (US\$/sh)	(0.00)	0.00	(0.01)	0.08	0.11
1xNAV8% spot fully funded		569			0.36	FCFPS pre growth (US\$/sh)	(0.00)	(0.02)	(0.03)	0.07	0.11
1x fully funded NAVPS sensitivity to g	-			1 1	1	FCF/sh (US\$/sh)	(0.01)	(0.07)	(0.08)	0.07	0.11
Valuation (£/sh)	\$60/kg	\$70/kg	\$80/kg	\$90/kg	\$100/kg	FCF yield pre growth (US\$/sh)	(4%)	(18%)	(27%)	61%	92%
0.25xNAV	0.13	0.16	0.19	0.22	0.25	FCF yield (%)	(10%)	(60%)	(66%)	61%	92%
0.50xNAV	0.23	0.29	0.36	0.42	0.49	EBITDA margin (%)	-	-	43%	69%	69%
0.75xNAV	0.33	0.43	0.53	0.63	0.72	FCF margin (%)			(220%)	37%	42%
1.00xNAV	0.43	0.56	0.69	0.83	0.96	ROA (%)	(8%)	(3%)	0%	31%	24%
Phalaborwa NPV8% (US\$m)	\$60/kg	\$70/kg	\$80/kg	\$90/kg	\$100/kg	ROE (%)	(8%)	(5%)	0%	50%	33%
12% discount	249	306	362	419	475	ROCE (%)	(8%)	(2%)	7%	48%	54%
10% discount	303	368	434	500	565	PER (x)	(28x)	(23x)	390x	1x	1x
8% discount	370	447	524	601	678	P/CF (x)	(35x)	(26x)	62x	1x	1x
6% discount	455	546	638	729	821	EV/EBITDA (x)	(30x)	(45x)	13x	1x	0x
5% discount	506	606	706	806	907	Income statement	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Phalaborwa 1xNAV sensitivity to reco						Revenue (US\$m)			28	154	206
Phalaborwa NPV8% (US\$m)	Recov: 65.0%	70.0%	75.0%	80.0%	85.0%	COGS (US\$m)			(12)	(44)	(59)
Payability: 60%	163	201	239	277	315	Gross profit (US\$m)			16	110	147
Payability: 70%	245	290	334	378	423	Expenses (US\$m)	(3)	(4)	(2)	(2)	(2)
Payability: 80%	328	378	429	480	530	Impairment & other (US\$m)					
Payability: 90%	410	467	524	581	638	Net finance costs (US\$m)		(2)	(8)	(8)	(8)
Payability: 100%	492	556	619	682	745	Tax (US\$m)			(3)	(20)	(37)
Valuation over time	Jun '21	Jun '22	Jun '23	Jun '24	Jun '25	Minority interest (US\$m)					(20)
Mines NPV (US\$m)	519.7	565.6	671.7	766.9	738.4	Net income attr. (US\$m)	(3)	(6)	3	80	79
Cntrl G&A & fin costs (US\$m)	(108.1)	(98.4)	(105.1)	(86.7)	(69.4)	EBITDA (US\$m)	(2)	(2)	12	106	143
Gakara & other	77.1	77.1	77.1	77.1	77.1	Cash flow	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Net cash at 1Q (A\$m)	(0.6)	8.3	2.6	(59.2)	(2.5)	Profit/(loss) after tax (US\$m)	(2)	(4)	0	71	68
1xNAV (US\$m)	488	553	646	698	744	Add non-cash items (US\$m)			1	7	9
P/NAV (x):	0.12x	0.10x	0.09x	0.08x	0.08x	Less wkg cap / other (US\$m)		4	(12)	(18)	11
1xNAV share px FD (US\$/sh)	1.00	1.13	1.33	1.43	1.52	Cash flow ops (US\$m)	(2)	0	(11)	60	89
ROI to equity holder (% pa)	744%	209%	124%	86%	67%	PP&E (US\$m)	(3)	(56)	(51)	(3)	(3)
Sources and uses of cash						Other (US\$m)					
SCPe evaluation costs	US\$10m	SC	Pe current ca	sh + options	US\$3m	Cash flow inv. (US\$m)	(5)	(56)	(51)	(3)	(3)
SCPe cape			D	ebt package	US\$80m	Debt draw (repayment) (US\$m)		40	40		(15)
SCPe contingency	/ US\$16m		E	quity Raised	US\$65m	Equity issuance (US\$m)	16	50			
SCPe G&A + fin. cost to first Au	u US\$13m					Other (US\$m)					
SCPe working capital	US\$9m					Cash flow fin. (US\$m)	16	90	40		(15)
Total uses	s US\$148m		То	tal proceeds	US\$148m	Net change post forex (US\$m)	9	34	(22)	57	71
*Cash from options expiring pre first po	our					FCF (US\$m)	(7)	(56)	(62)	57	86
Production profile						Balance sheet	Jun '22	Jun '23	Jun '24	Jun '25	Jun '26
Production (kt REO) 8.0				Rev / C	Cost (US\$/t) 40,000	Cash (US\$m)	10	44	23	79	150
6.0					- 40,000 - 30,000	Accounts receivable (US\$m)	1	2	5	13	14
4.0					20,000	Inventories (US\$m)	0	3	6	18	6
2.0					— 10,000 —	PPE & exploration (US\$m)	15	71	121	117	111
2024 2025 2026 2027	2028 2029 203		2032 2033	2034 2035		Other (US\$m)	0	0	0	0	0
Production (kt Nd+Pr, LHS) Revenue (\$/t REO)	Production (kt, D AISC (US\$/t RE	Dy+Tb, LHS) O)	Pro	oduction (kt, othe	r REO, LHS)	Total assets (US\$m)	26	121	155	228	281
	, 100 (00¢/(11L)	-,				Debt (US\$m)	2	42	82	82	67
Production (100%)	Jun '24	Jun '25	Jun '26	Jun '27	Jun '28	Other liabilities (US\$m)	1	9	2	5	5
Phalaborwa (kt TREO)	968	5,321	7,095	7,095	7,095	Shareholders equity (US\$m)	49	99	99	99	99
Phalaborwa (kt Nd+Pr)	281	1,548	2,064	2,064	2,064	Retained earnings (US\$m)	(24)	(28)	(28)	43	111
Phalaborwa cash cost (US\$/t)	11,886	7,752	7,752	7,752	7,752	Minority int. & other (US\$m)	(1)	(1)	(1)	(1)	(1)
Phalaborwa AISC (US\$/t)	15,317	10,852	10,619	10,619	10,619	Liabilities+equity (US\$m)	26	121	155	228	281
Group cash cost (US\$/t)	12,466	8,332	8,332	8,332	8,332	Net cash (US\$m)	8	3	(59)	(3)	83
Group AISC (US\$/t)	19,104	9,986	9,495	9,495	9,495	Net debt to NTM EBITDA (x)	4.1x	(0.2x)	0.6x	0.0x	(0.6x)

Source: SCP estimates

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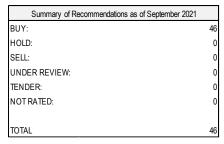
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