Zenith Minerals

ZNC.AX



05 December 2024

Solid Drilling Results at DFN

NEED TO KNOW

- Latest drilling round complete at Dulcie Far North results confirm continued mineralisation, MRE upgrade in progress, further drilling planned
- Red Mountain drilling progress continues
- · Earaheedy shows exciting metallurgical results

Latest round of drilling at Dulcie Far North (DFN) completed: Zenith Minerals (ZNC) has completed a drilling program at its DFN Gold Project in WA, comprising 17 reverse circulation (RC) holes totalling 2,268 metres (m).

Drilling results confirm continued mineralisation: Gold mineralisation has been confirmed in multiple holes, including 10m @ 2.00 g/t Au from 75m, 3m @ 5.51 g/t Au and 11m @ 1.30 g/t Au from 77m. This supports increased mineralisation within the known resource as well as confirming extensions for future resource expansion.

Upgrade of Mineral Resource Estimate (MRE) in progress: Results of drilling have been submitted for third-party evaluation with the target of upgrading the MRE, which we expect in 1QCY25.

Red Mountain (RM) drilling: ZNC's current drilling program at RM (QLD) targets high-priority zones over ~2000m and 10–12 holes. The program is building on significant results from the previous campaign.

Earaheedy metallurgical testing shows positive results: Recoveries of 79% Zn were achieved, producing a high-grade, marketable bulk concentrate with the potential to support a simplified, low-capex/opex processing strategy.

Investment Thesis

Exploration drives ZNC; highly prospective portfolio; focus on gold: ZNC has exposure to highly prospective gold exploration projects in the Tier1 jurisdictions of WA and QLD with high prospectivity, presenting the opportunity to increase resources and consolidation potential.

Exposure to lithium-ion battery and electric vehicle (EV) value chain provides long-term opportunity: The structural EV growth story places ZNC in a position to take advantage of this high-growth market and advance the lithium projects in the portfolio.

Extensive portfolio presents opportunity: ZNC has an extensive asset portfolio. In addition to the gold and lithium assets, the company's 25% ownership in the Earaheedy Zinc and Lead Project in WA remains strategically important and presents ZNC with monetisation options.

Valuation: A\$0.29/share

Our valuation reflects thefact that ZNC's focus has pivoted to the gold assets. We see significant upside to our valuation through successful drilling results at DFN and RM.

Risks

Key risks include a lack of exploration success and continued cash burn.

Equity Research Australia

Materials

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Zenith Minerals is an Australian-based mining exploration company dedicated to supporting the increasing demand for metals critical to the global energy transition. The company maintains a diversified portfolio with a strategic focus on gold, lithium, and base metals projects. www.zenithminerals.com.au

Valuation **A\$0.290** (unchanged)

Current price A\$0.043

Market cap A\$17m

Cash on hand **A\$1.39m** (30 Sep 24)

Upcoming Catalysts / Next News

Period	
4QCY24	Red Mountain – drilling results
1QCY25	DFN – updated MRE
CY25	Further exploration DFN and RM
CY25	Earaheedy – scoping study
CY25	Earaheedy – strategic partners

Share Price (A\$)



Source: FactSet, MST Access

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Figure 1: Financial summary, ZNC (June year-end)

ZENITH MINERALS LIMITED												ZNC.A
MARKET DATA							12-Month Relative Performance vs S	&P/ASX Met	als & Mini	ng		
Share Price	A\$/sh					0.043	140	ZNC —	YMM.			
52 week high/low	A\$/sh					0.17-0.04	11 6	2110	Z.III III			
Valuation	A\$/sh					0.29	110					
Market Cap (A\$m)	A\$m					17	80		~~~	~~~		
Net Cash / (Debt) (A\$m)	A\$m					4	~~~~	٦.				
Enterprise Value (A\$m)	A\$m					13	50	Manne				
Shares on Issue	m					405	20		mm	^ ~~	, m	_
Options/Performance shares	m					10	02 42 42 42 42 62	0 00 00 0	× 0× 0×	A0 A0	A A A	-Δ
Other Equity	m					186	370 770 700 100 100 100 100 100 100 100 1	2150 2150 20 150 1	1/20 2/20 2/	30 NO. 080	0120, 120, 1	200
Potential Diluted Shares on Issue	m					600	ON THE	\$1074.1074.101	A 1202 1202 1208 1	100 01 01 100 01 010	24 2024 2024 2020 24 2011	
INVESTMENT FUNDAMENTALS		FY23A	FY24A	FY25E	FY26E	FY27E	Profit & Loss (A\$m)	FY23A	FY24A	FY25E	FY26E	FY27
Reported NPAT	A\$m	(9)	(4)	(7)	(5)	(2)	Revenue	2	2	2	-	-
Underlying NPAT	A\$m	(9)	(4)	(7)	(5)	(2)	Expenses	(11)	(6)	(9)	(5)	(2
					. ,		EBITDA	(9)	(4)	(7)	(5)	(2
EPS Reported (undiluted)	¢ps	(2.6)	(1.2)	(2.0)	(1.4)	(0.6)	D&A	(0)	0	0	0	- '-
EPS Underlying (undiluted)	¢ps	(2.6)	(1.2)	(2.0)	(1.4)	(0.6)	EBIT	(9)	(4)	(7)	(5)	(2
Underlying EPS Growth	%	n/m	n/m	n/m	n/m	n/m	Interest	0	0	0	0	,
P/E Reported (undiluted)	x	n/m	n/m	n/m	n/m	n/m	Profit Before Tax	(10)	(5)	(7)	(5)	(2
P/E Underlying (undiluted)	x	n/m	n/m	n/m	n/m	n/m	Tax	(20)	- (5)	- (*)	-	- \-
in its officially (an anatos)	*						Underlying NPAT	(9)	(4)	(7)	(5)	(2
Operating Cash Flow / Share	Α¢	(0.43)	(0.24)	(0.86)	(0.30)	(0.30)	Exceptionals	- (5)	- (4)	- (1)	- (5)	- '-
Price / Operating Cash Flow	X	n/m	n/m	n/m	n/m	n/m	Reported Profit	(9)	(4)	(7)	(5)	(2
Free Cash Flow / Share	Α¢	(1.68)	(0.32)	(1.99)	(1.15)	(0.62)	Balance Sheet (A\$m)	FY23A	FY24A	FY25E	FY26E	FY27
Price / Free Cash Flow	Х	n/m	(0.1)	(0.0)	(0.0)	(0.1)	Cash	2	1	1	1	
Free Cash Flow Yield	%	n/m	n/m	n/m	n/m	n/m	Receivables	0	2	0	0	(
The Gabin fow Held	70	11/111	10/11	11/111	10/111	11/111	Inventory	_		0	-	_ `
Book Value / Share	A\$	0.05	0.04	0.05	0.06	0.06	PP&E	0	0	4	7	
Price / Book	X	0.82	1.10	0.03	0.78	0.74	Other	17	11	11	11	1.
T HOO T BOOK	^	0.02	1.10	0.51	0.70	0.14	Assets	19	14	17	20	2
NTA / Share	A\$	0.05	0.04	0.05	0.06	0.06	Creditors	1	0	0	0	2
Price / NTA	χ	0.82	1.10	0.03	0.78	0.74	Debt		-	-	-	
The Trans	^	0.02	1.10	0.51	0.70	0.74	Leases	_	_	_	_	_
Year End Shares	m	352	352	352	352	352	Provisions	0	0	- 0	0	- (
Market Cap (spot)	A\$m	15	15	15	15	15	Other	U	U	U	U	_ '
Market Cap (Spot)	Афііі	13	15	15	15	13	Liabilities	1	1	0	0	
Net Cash / (Debt)	A\$m	2	1	1	1	1	Net Assets	18	14	17	19	20
Enterprise Value	A\$m	13	14	14	14	14	Net Assets	10	14	"	19	21
Enterprise value	AVIII	13	14	14	14	14	Cashflow (A\$m)	FY23A	FY24A	FY25E	FY26E	FY27
EV / EBITDA	v	n/m	n/m	n/m	n/m	n/m	Cash From Operations					
Net Debt / Enterprise Value	X	(0.2)	(0.1)	n/m (0.1)	n/m (0.1)	(0.1)	Interest	(2) 0	(1) 0	(3) 0	(1) 0	(1
		(0.2)	(0.1)	(0.1)	(0.1)	(0.1)	_	U	U	U	U	,
Dividend per char-	٨٨	0	0	0	0	0	Not Cash From Operations	- (2)	- /41	- /21	- /41	-
Dividend per share	Α¢	0	0	U	U	U	Net Cash From Operations	(2)	(1)	(3)	(1)	(1
							Capex	(0)	2	- (4)	- (2)	
							Exploration	(5)	(3)	(4)	(3)	(
							Investments	0	- (4)	- (7)	- (4)	-
							Free Cash Flow	(6)	(1)	(7)	(4)	(2
							Equity	0	-	7	4	2
							Borrowings	-	-	-	-	-
							Dividend	-	-	-	-	-
							Net Increase / (Decrease) in Cash	(6)	(1)	(0)	(0)	(

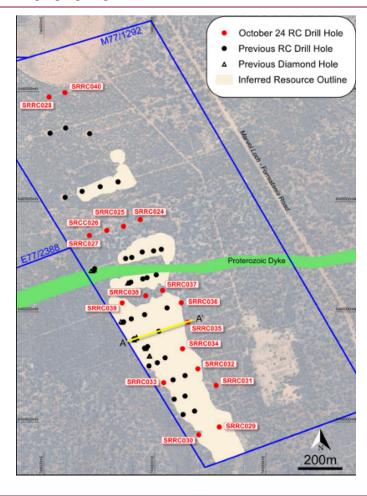
Source: MST estimates, ZNC.

Latest Round of Drilling Concludes at DFN – Key Milestone

ZNC has completed its latest round of drilling at its Dulcie Far North (DFN) Gold Project in Western Australia (WA). The program commenced in October, and comprised 17 reverse circulation (RC) holes totalling 2,268 metres(m). This brings ZNC's aggregate RC and diamond drilling to 9,142m.

Figure 2 shows the drilling completed at DFN, with previous drilling highlighted by black dots and triangles and the latest drilling with red dots. The shaded yellow area shows the current MRE.

Figure 2: DFN drilling highlighting the recent October 2024 RC drill holes in red



Source: ZNC

What was the target of the campaign?

The drilling program set out to achieve two core objectives, both of which it met:

- · infill drilling to support and increase confidence in the existing Inferred Mineral Resource estimate
- step-out drilling to extend known mineralised zones along strike and down-dip.

Both of these objectives were met.

The key drilling results

All assay results have been received, and significant gold mineralisation has been confirmed across a number of holes. Key intersections include:

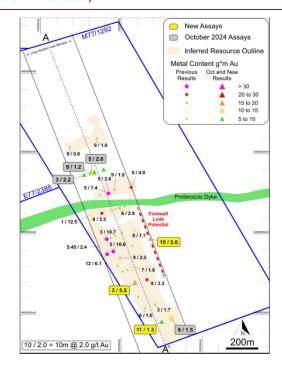
- 10m @ 2.00 g/t Au from 75m, including 4m @ 4.58 g/t Au from 78m
- 3m @ 5.51 g/t Au from 104m, including 2m @ 8.07 g/t Au from 105m
- 11m @ 1.30 g/t Au from 77m.

What do the results tell us?

This is a key milestone for ZNC. The results confirm:

- the continuity of gold mineralisation within the project, successfully testing extensions along strike and identified new mineralisation zones
- · that there is potential for resource expansion
- · that mineralisation remains open in multiple directions
- that further drilling will be required to validate and extend the discoveries.

Figure 3: Assay results of new drilling campaign highlighted in grey and yellow, with previous results included (current MRE shaded)



Source: ZNC.

What's next?

ZNC plans to integrate the results from the recently completed drilling campaign at DFN into an updated geological and resource model, the aim of which is to expand and increase confidence in the existing MRE. As a result the company will:

- update the MRE as a result of the just-completed drilling program, we expect this in Q1 2025
- conduct further drilling to demonstrate additional upside to the mineralisation, potentially enabling a further increase in the resource beyond the updated MRE
- conduct a tightly spaced drilling campaign targeting key areas within the expanded Inferred MRE
 to upgrade a significant portion of the resource to the Indicated category to be positioned to
 complete pit optimisations and report an Ore Reserve, if warranted.

What's the potential increase to the MRE?

This campaign has successfully tested extensions along strike and identified new footwall mineralisation zones, demonstrating the project's potential for substantial resource expansion. Our observation of the recent drilling lead us to consider that an increase to the MRE of ~30% may be achievable.

Red Mountain drilling - assays pending

ZNC has a drilling program at its other key gold asset, Red Mountain (RM) in Queensland (QLD). The program targeting high-priority zones over ~2,000m of drilling across 10–12 holes. The program builds on significant results from the previous campaign and will refine and expand understanding of the mineralisation.

A recent update to the 3D geological model, combined with reinterpreted geophysical data, has identified high-priority targets, especially in under-explored zones. This refined interpretation enhances ZNC's focus on areas with the greatest resource potential.

The program builds on significant results from the previous campaign. The aim of this phase to drill-test shallow IP anomalies, refine the understanding of the mineralisation and expand on prior findings. This is a pivotal step in advancing the asset. This program tested several shallow geophysical anomalies with RC as a prelude to deeper diamond drilling in 2025. Assays are pending at this time.

Recap on the ZNC Gold Projects – Key Immediate Focus

ZNC's immediate focus is on advancing its gold projects, with particular regard to the **100%-owned DFN** and **RM gold projects**. Both these assets provide near-term potential and offer leverage to the high gold price.

Gold exploration continues to be a priority for the company, with both projects located in regions known for their large gold endowments.

Figure 4: Location of ZNC's key gold assets



Source: ZNC.

Dulcie Far North(WA): existing resource of 150koz; strong potential

DFN is situated within the Southern Cross–Forrestania Greenstone Belt, approximately 400km east of Perth, WA, a well-known region for multi-million-ounce gold projects. The Southern Cross region boasts a rich history of gold mining, with a cumulative estimated gold endowment exceeding 10 million ounces (Moz), making it one of the most prolific gold-producing regions in the state.

Existing resource and granted mining lease

DFN has an existing Inferred Mineral Resource of 3.3Mt @ 1.4 g/t Au for 150koz of gold.

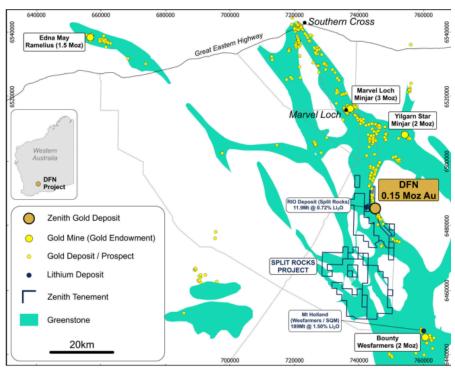
The DFN project is located on a granted mining lease and benefits from excellent infrastructure, including proximity to underutilised gold processing facilities just 35km to the north, offering opportunities for toll treatment.

Previous drilling results drive the resource

Previous drilling has confirmed high-grade gold intersections including:

- 12m @ 6.1 g/t Au from 108m, including 5m @ 10.5 g/t Au from 113m
- 5m @ 10.6 g/t Au from 91m
- 5m @ 7.4 g/t Au from 47m
- 3m @ 10.7 g/t Au from 103m.

Figure 5: Location of DFN - nearby infrastructure and large gold projects



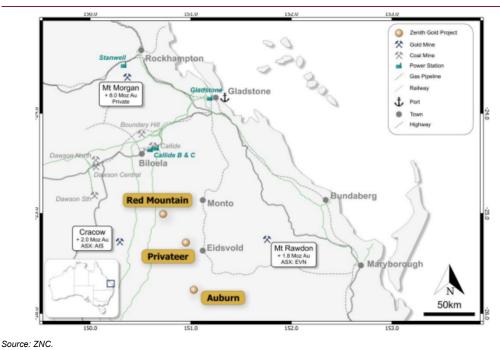
Source: ZNC.

Red Mountain (QLD): nearology and potential

RM is located in QLD, within 100km of significant deposits such as Mt Morgan (8.0Moz), Cracow (2Moz) and Mt Rawdon (1.8Moz). The project benefits from favourable terrain and access to infrastructure.

An intrusion-related gold system (IRGS) has been identified at the project. IRGS deposits, such as those at the nearby Mt Rawdon, Kidston (north-west of Townsville) and Mt Wright (south of Townsville), are renowned for large-scale mineralisation.

Figure 6: Red Mountain location and nearby gold deposits and projects



Previous drilling results and review of data - a strong base to work off

Historical drilling - 2020 and 2021: shallow high grades present

During 2020 and 2021, RM had shallow drill testing completed, demonstrating high grades from surface to ~100m. These included:

- 13m @ 8.0 g/t Au from surface, including 6m @ 16.7 g/t Au from surface
- 15m @ 3.5 g/t Au from 57m, including 2m @ 22.4 g/t Au from 70m
- 12m @ 4.9 g/t Au from 102m, including 6m @ 9.4 g/t Au from 103m
- 5m @ 10.4 g/t Au from 67m, including 1m @ 49.9 g/t Au from 67m
- 7.7m @ 4.4 g/t Au from 63m, including 1m @ 19.3 g/t Au from 63m.

Diamond drilling 2023: showed depth continuity

Diamond drilling in 2023 confirmed the depth continuity of gold and silver mineralisation. Results included:

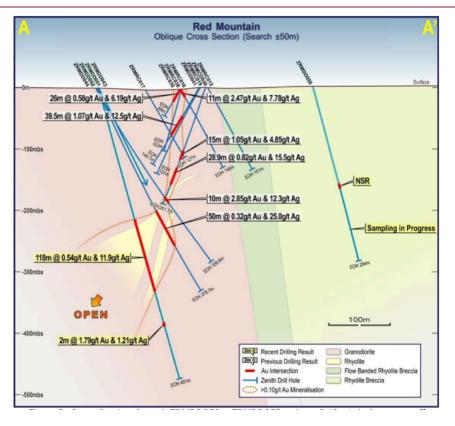
- 118m @ 0.54 g/t Au + 11.9 g/t Ag from 225m, including 12m @ 1.36 g/t Au + 4.93 g/t Ag from 288m and 9m @ 1.24 g/t Au + 6.30 g/t Ag from 323m
- 11m @ 0.45 g/t Au + 4.54 g/t Ag from 183m,
- 11m @ 1.16 g/t Au + 1.08 g/t Ag from 224m.

Review of data: identifying further targets and analysing core samples

ZNC has refined the 3D geological model and reinterpreted IP data, which has helped identify new high-priority drill targets. Additionally, 454m of core samples not previously analysed are being prepared for assay, which could provide further insights into the mineralisation.

Metallurgical tests from 2021 confirmed that the gold mineralisation is free-milling and non-refractory, with average gold recovery rates of 83.3%, including 95.8% for low-arsenic samples. This highlights the processing potential of the deposit through conventional cyanide leaching techniques.

Figure 7: Cross section of Red Mountain results to date



Source: ZNC.

Earaheedy – Metallurgical Testing Delivers

ZNC has a 25% stake in the Earaheedy zinc-lead-silver project in WA. ZNC's JV partner at Earaheedy, Rumble Resources (ASX: RTR), has reported an initial Mineral Resource Estimate (MRE) of 94Mt @ 3.1% Zn+ Pb and 4.1g/t Ag. Earaheedy is seen as by RTR as 'one of the largest zinc sulphide discoveries globally in the last decade'.

ZNC's share is free carried up until the completion of a bankable feasibility study. Earaheedy provides several options for ZNC, including a potential sale of the asset.

Metallurgical testing – highlights development potential

RTR recently completed metallurgical testing for Earaheedy.

The testing produced strong results with recoveries of 79% Zn achieved into a high-grade, 61% Zn + Pb, marketable bulk concentrate suitable for the imperial smelting process (ISP), using a coarse primary grind, which should lead to significant energy savings in the plant.

HydroFloat[™] technology – adding efficiency

The HydroFloatTM is an aerated fluidised-bed separator that combines the advantages of density separation with the selectivity of flotation to deliver numerous potential capital and operating cost benefits. These include:

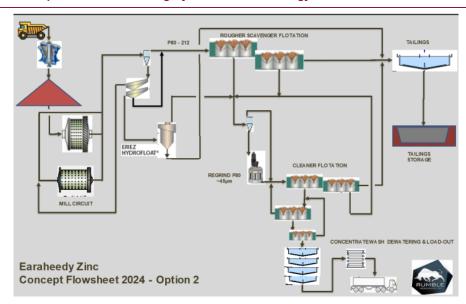
- increased plant profitability potential to increase plant throughput by 10–35%, significantly reducing capex and opex (e.g., substantially reduced power costs)
- improved environmental sustainability increases in water recovery by 85% lead to major energy consumption reductions and coarser tailings for safer tailing disposal and management
- improved project economics higher production rates from either a material reduction in plant footprint or an increase in overall plant capacity
- increased metallurgical efficiency the process removes over 30% of total gangue in early stages
 of the process and allowing the processing of hard and lower-grade ores at coarser fractions.

To date, over 70 commercial HydroFloatTM units have been installed around the world.

Simplified and cost-efficient flowsheet

Testwork confirmed Earaheedy ore is amenable to semi-autogenous milling, with coarse grinds delivering excellent metal recoveries. This should support a simplified, low-capex/opex processing strategy that adapts to variable feed grades while producing a high-value ISP concentrate.

Figure 8: Simplified flowsheet using HydroFloat[™] technology*



Source: RTR. *Note: Option 1 was proposed in 2022 using a conventional flowsheet.

ISP smelting - a quick overview

As noted above, the testing produced a concentrate suitable for ISP. ISP is a widely used method for producing zinc and lead.

Usage

ISP is responsible for 8–10% of the world's primary zinc production. It is a common smelting technology as it can smelt zinc and lead at the same time.

Process

ISP is a vertical furnace process that uses a mix of lead and zinc concentrates as raw material. The process involves charging solid sinter and heated coke into the top of the furnace, then blowing preheated air into the bottom. Zinc vapour and sulphides leave through the top and are condensed, while slag and lead collect at the bottom.

Location

ISP furnaces are currently in operation in China, India, Japan, South Korea and Poland.

Next step - internal scoping study

RTR has stated that an internal scoping study will commence shortly to assess the economic viability and marketing opportunities for the bulk high-grade ISP concentrate from Earaheedy, with results expected in 2025.

RTR has noted that 'the application of the HydroFloatTM technology has confirmed coarse particle rejection is achievable which should lead to capital and operating cost reductions in processing that could lower the cut-off grades, thereby significantly enhancing the project's resources and economics'.

Valuation – Sum of the Parts: A\$0.29

Valuation overview: 3 key value drivers, with a focus on gold

Our base-case valuation for ZNC is A\$0.29/share.

The company has 3 key value drivers:

- gold Dulcie Far North (DFN) and Red Mountain (RM)
- lithium Split Rocks and Waratah Well
- · zinc and base metals Earaheedy.

Our sum-of-the-parts valuation has a contribution from each of these three key value drivers. Werecently reset our valuation, focusing more on the gold assetsthan previously, in line with the company's strategic pivot.

Our valuation is based on a fully diluted equity base. We have assumed that ZNC will need to raise equity capital going forward to fund its exploration drilling and potential development of assets, particularly in gold. We have assumed capital raisings of A\$7m in FY25, A\$4m in FY26 and A\$2m in FY27. Given that we consider there will be some significant catalysts for share price appreciation from the drilling at DFN and RM, we have assumed the capital is raised at A\$0.07 per share.

Figure 9: ZNC valuation summary

PROJECT VALUATION	A\$M	EQUITY VALUE A\$/SHARE FULLY DILUTED	Valuation Methodology
Gold - Dulcie Far North	36	0.06	EV / Resource - Comparables
Gold - Red Mountain	10	0.02	MST Estimate
Sub Total Gold Assets	46	0.08	
Lithium - Split Rocks	32	0.05	EV / Resource - Comparables
Lithium - Waratah Well	15	0.02	MST Estimate
Sub Total Lithium Assets	47	0.07	
Zinc and Base Metals - Earaheedy	84	0.14	Risked Project NPV
ENTERPRISE NPV	84	0.29	
Add: Cash and Investments	4	0.02	At 30 September 24
EQUITY VALUE PRE SG&A	88	0.31	
SG&A	(10)	(0.02)	NPV of Corporate Costs
EQUITY VALUE	78	0.29	

Source: MST.

Breakdown: elements of our sum-of-the-parts valuation

Gold - Dulcie Far North and Red Mountain

The new CEO has prioritised gold as ZNC's key focus, given the strength of the gold price and the potential for near-term value realisation of both the assets.

Dulcie Far North: EV/Resource

DFN has an existing 150,000oz resource, allowing us to apply a 'peer' EV/Resource to the project. Given the company's focus on the project and its significant potential, we have assumed some significant drilling success in our valuation and have allocated an increase to the resource to a total of 500koz, and valued that on an EV/Resource basis.

Figure 10: Valuation of Dulcie Far North - EV/Resource

Code	Company	EV A\$m	Resource moz	EV/Resource \$/oz		
RXL	Rox Resources	70	2.5	28		
BGD	Barton Gold	49	1.7	30		
AUN	Aurumin	29	1.0	30		
STN	Saturn Metals	65	1.8	35		
AUC	Ausgold	159	3.0	52		
A1M	AIC Mines	132	2.1	63		
MEK	Meeka Metals	172	2.0	87		
AAR	Astral Resources	97				
BTR	Brightstar Resources	110				
BCN	Beacon Minerals	85	0.7	122		
BC8	Black Cat Syndicate	340	2.6	129		
	Average	71				
	Dulcie Far North Resource	150,000				
	Valuation of Dulcie Far North E	\$11				
	Valuation Dulcie Far North Potential 500koz Resource A\$m					

Source: Company reports, Goldnerds, MST.

Red Mountain: early stage - MST estimate

RM is another asset on which ZNC is focused, given its strong exploration results to date, gold potential and the regional geology and infrastructure. The asset does not contain a resource, but is undergoing a drill program currently. We see strong potential for this asset and opportunities to consolidate in the region. Given its current status, it is too early to apply a potential EV/Resource valuation to the asset, but we are comfortable in attributing a A\$10m initial valuation to it.

Lithium: long-term value

The lithium assets still play an integral part in the long-term value of ZNC, particularly given their location in WA. The assets have strategic value, and Split Rocks contains one of the few resources for a non-operating lithium project in WA.

Split Rocks - EV/Resource

Split Rocks has an existing resource, allowing us to apply a 'peer' EV/Resource to the project.

We have applied the average of the EV/Resource values for the lithium assets of developers Liontown, Global Lithium and Delta Lithium. The details are in Figure 11.

The maiden resource for Split Rocks is 85,860 tonnes of contained lithium. Applying theaverage multiple for peers of A\$370/t of contained lithium, we attain avalue for Split Rocks of A\$31.7m.

Figure 11: EV/Resource - lithium comparables - valuation basis for Split Rocks

General Information		Project Information	Resource (Indicated + Inferred)	EV/Contained Li2O		
Company EV		Project	Li2O	X		
	(A\$m)		kt			
Liontown	2,146	Kathleen Valley	2100	955.7		
Liontown	2,146	Anna	145			
Global Lithium	23	Manna	514	32.6		
Global Lithium	23	Marble Bar	180			
Delta Lithium	52	Yinnetharra - Lithium -WA	246	122.1		
Delta Lithium	52	Mt Ida- Lithium -WA	180			
				370.1		

Source: Company reports, FactSet.

Waratah Well: less advanced, but option value - MST estimate

Waratah Well is less advanced than Split Rocks, but with potential. We apply an estimated value for this asset, electing to use a valuation of ~30% of Split Rocks.

Zinc and base metals: Earaheedy – large project; strategic value

Earaheedy is a large zinc-rich deposit with potential to be developed.

- Earaheedy makes up the majority of our ZNC valuation due to its large size, and our NPV valuation of the asset being over A\$1b on a 100% unrisked basis.
- ZNC's 25% share represents a strategic stake in the asset, operated and owned by Rumble Resources (RTR: ASX – covered by MST with a valuation of A\$0.17/share).
- In our analysis of RTR, we value Earaheedy on a risked NPV basis. Our unrisked valuation for 100% of Earaheedy is A\$1.017bn. Given the minority stake that ZNC holds, we see it as higher risk than for RTR (which we risk at 50%) and therefore allocate a 33% probability risk weighting on ZNC's 25% share, attaining a valuation of A\$84m for ZNC. The details of our NPV valuation are discussed in the next section.
- The asset has significant strategic value and may attract the interest of large strategic investors.

Key assumptions for Earaheedy DCF valuation

A lack of listed zinc development/exploration peers which are even broadly comparable with RTR means we have a relatively limited number of comparable peers from which to ascertain an appropriate EV/Resource target multiple. As a result, we have looked at an NPV valuation estimate of Earaheedy.

We highlight that our assumptions are based on high-level MST estimates with reference to the size of the current resource. The actual operational parameters under any future feasibility study may turn out to be significantly different to those assumed.

Our base-case DCF valuation is built upon a mine plan based on our assumptions which are highly conceptual in nature given the project's early stage. We have assumed the following:

- construction to take place in FY27, with the first full year of production in FY28
- 5Mtpa throughput capacity
- A\$700m capex
- 10-year mine life
- AISC of A\$1,250/t (life-of-mine)
- 10% discount rate, 0.68 AUD/USD, zinc price of US\$3,500/t and lead price of US\$2,000/t.

Our unrisked valuation of Earaheedy is A\$1.017b. In our valuation of ZNC, we have applied a 33% probability weighting to the Earaheedy Project and then allocated ZNC its 25% ownership share, yielding a valuation of A\$84m.

Positive catalysts for the share price and valuation

We believe that ZNC has significant potential for further valuation upside and highlight a number of key milestones/catalysts which may deliver this over the near term.

Key near-term catalysts - gold assets

Further successful gold drilling results - Dulcie Far North and Red Mountain

With the switch in focus to the gold portfolio, ZNC's key catalysts are continued successful drilling results at DFN and RM.

Upgraded resource - DFN

The successful drilling campaign will lead to an increase in resource for DFN. We expect to see this update early in CY25.

Consolidation - gold assets

ZNC is looking for consolidation opportunities for its gold assets. Any consolidation which would lead to higher potential resources and accelerated route to production would be positive for the stock.

Lithium catalysts

Successful lithium exploration results

Further exploration success at Split Rocks in particular, as well as at Waratah Well – would accelerate the potential to develop the projects and provide further optionality, as well as potentially improve the valuation if exploration results support the advancement of an economic feasibility study and/or corporate interest. Further exploration success at the other lithium assets would be positive for the stock as well.

Earaheedy catalysts - strategic developments

There are a number of potential positive developments at Earaheedy.

Securing a partner at Earaheedy

Earaheedy is a large-scale project, and RTR has flagged that it will seek to develop it in partnership with a larger partner who can provide secure funding as well as other support. Any potential agreement with a credible partner would be a significant de-risking milestone for the project.

Commencement of scoping study at Earaheedy

An internal scoping study is planned for Earaheedy once the final metallurgical results are received. This study would provide much more detail about the scope and timing of the project as well as preliminary economic assumptions. A positive scoping study would represent a significant potential catalyst for the stock, due to both the improved confidence it would provide on the project, as well as the ability to commence negotiations with potential partners.

Beneficiation studies at Earaheedy

The operator of the project, RTR, has noted beneficiation as a significant potential value-additive initiative at Earaheedy in order to unlock the substantial resource inventory at lower cut-off grades. These studies are planned in parallel with the scoping study, and a positive outcome would potentially add a substantial amount of material to the mine plan, providing for longer-life operations or higher-grade mill feed.

Corporate activity

The lithium sector in WA is proving to be of interest to both domestic and international operators, with consolidation in the gold sector occurring as well.

Risks

Key near-term risk - disappointing gold drilling results

The key short-term catalysts for ZNC are the drilling programs at DFN and RM. Any disappointment in results would be a risk to the share price.

Lithium risks

Disappointing lithium exploration results

Any disappointment in further lithium exploration results would undermine the economic viability of the projects and reduce the likelihood of an economic project proceeding into development and construction.

Continued weakness in lithium prices

The lithium market has been weak for the last 12 months as concerns around supply and China have prevailed. Continued weakness in the lithium price adds risk to ZNC's strategy of engaging strategic partners and lithium exploration.

Earaheedy key risk – lack of progress

Lack of progress at Earaheedy with regards to strategic partners and project development would be detrimental to the potential value of the project.

Macro risk - changes in regulatory framework

Regulatory changes such as royalty rates or changes to permitting requirements may alter the risk profile of the company and would potentially be detrimental to the stock price.

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Michael Bentley received assistance from the subject company or companies in preparing this research report. The company provided them with communication with senior management and information on the company and industry. As part of due diligence, they have independently and critically reviewed the assistance and information provided by the company to form the opinions expressed in this report. They have taken care to maintain honest and fair objectivity in writing this report and making the recommendation. Where MST Financial Services or its affiliates has been commissioned to prepare content and receives fees for its preparation, please note that NO part of the fee, compensation or employee remuneration paid has, or will, directly or indirectly impact the content provided in this report.

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Price and valuation as at 05 December 2024 (* not covered)

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