Canaccord Genuity Capital Markets

Company Update

New World Resources

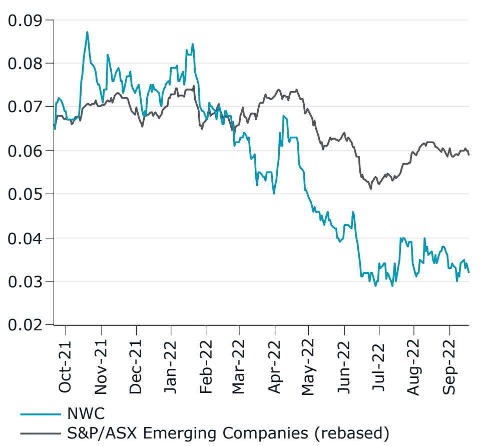
Base Metals - Developer/Explorer

20 September 2022

Rating	Price Target
SPECULATIVE BUY *unchanged*	**A$0.18** *unchanged*
NWC-ASX	Price **A$0.03**

Market Data

52-Week Range (A$) :	0.03 - 0.09
Avg Daily Vol (M) :	4.6
Market Cap (A$M) :	59.1
Shares Out. (M) :	1,846.9
Dividend /Shr (A$) :	0.00
Dividend Yield (%) :	0.0
Enterprise Value (A$M) :	54.9
NAV /Shr (A$) :	0.18
NAV /Shr (5%) (A$) :	0.45
Net Cash (A$M) :	4.2
P/NAV (x) (A$) :	0.17



Source: FactSet

Priced as of close of business 20 September 2022

New World Resources is an ASX-listed copper developer focused on the Antler Copper Project in Arizona, US. NWC has published a Scoping Study which outlines plans for a long mine life, high margin polymetallic underground operation, producing 247kt of payable copper equivalent over a 10-year mine life. Annual production is 25kt of payable copper equivalent for C1 of US$1.66/lb CuEq and upfront capital of US$201m. Permitting is key and can take up to 24-months. NWC is diligently working through this process now.

Canaccord Genuity received a fee for its role as Joint Lead Manager to New World Resources $8m equity raise at $0.032 on 27 July 2022.

Paul Howard | Analyst | Canaccord Genuity (Australia) Ltd. | phoward@cgf.com | +61.8.9263.1155

Antler Site Visit

Last week, we visited NWC's 100%-owned Antler Copper Project in northern Arizona, USA. In recent months NWC has returned some of the best copper intercepts on the ASX, in our view, which include 41.8m @ 3.8% CuEq (2.5% Cu, 2.8% Zn +Pb, Ag & Au) from 876m and have extended to Antler deposit from near surface to over 800m vertically below surface. The company has two diamond drill rigs in operation, extending the deposit at depth and is set to release an updated resource in the DecQ'22. The current resource stands at 7.7Mt @ 3.9% CuEq and we think something in the region of 10-12Mt is achievable without too much loss of grade. Main areas of growth should be delivered from the Main Shoot at depth as well as extensions to the South Shoot.

Mining Studies: In July 2022, NWC released a Scoping Study (SS) that outlines plans for a long mine life, high margin (~US$100m p.a.) polymetallic underground operation, producing 247kt payable CuEq over a 10-year mine life. Annual production is 25kt of payable CuEq for C1 of US$1.66/lb CuEq and upfront capital of US$201m (and includes a US$36.5m contingency). The company is working towards de-risking the project and anticipates delivery of a PFS in mid-2023. It has enlisted the local expertise of Dr. David Stone, who most recently managed study work, permitting and development of the nearby Moss Gold Mine. Stone, along with the very capable team of in-country geologists and technicians, and Australia-based executives were on hand for the duration of the 3-day visit to showcase the project. All participants were in agreement that success at Antler hinges on obtaining the necessary permits to mine in a timely manner from submission, which is expected in late-2022 and could take up to 24 months for approval.

Potential upside from ore and waste categorisation: The current SS takes the existing 7.7Mt resource and through the application of a stope optimiser, determines 7.3Mt can be mined in a future 1Mtpa scenario. It then adds 2Mt of mining dilution to generate a 9.3Mt mine inventory. This 2Mt of dilution has been assigned a grade of zero and presents opportunity for upside if this "waste" can be categorised as low-grade halo ore through further work. While we note some schistose material and talc alteration on the hangingwall contact in drill core could cause excess overbreak, we believe an opportunity exists to optimise the mining parameters set out in the SS. We also note the decision to place mine infrastructure in the more competent footwall of the Antler orebody. The 2Mt dilution comprises ~1Mt of internal dilution between the hangingwall and footwall lodes as well as 1Mt (0.2m) of potential overbreak in mined stopes.

Increased throughput versus mine life extensions? Resource growth at Antler is likely in our view, and could be delivered later this year. While the proposed 5x5m decline and development as per the SS could be increased in size to lift capacity to ~1.2Mtpa, we think the mine infrastructure is scaled appropriately for a 1Mtpa operation with any increases in throughput likely to be fed from satellite opportunities. NWC is currently assessing opportunities along strike to the northeast from Antler at the likes of Copper Knob and Rattlesnake Ridge, as well as more regional targets such as Pinafore, some 70km to the southeast. We visited these early-stage growth opportunities and were buoyed by the presence of old workings and visible oxide copper mineralisation and gossans at surface. NWC plans to undertake IP and further soil geochem over these targets in the near future with a view to drill test in the DecQ'22.

Valuation and recommendation: The ability to visit site, see the lay of the land and spend time with the key decision-makers at NWC has been extremely worthwhile and gives us confidence that this team can deliver on its objectives for 2022 and beyond. We have updated our model for the recent A$8m @ 3.2c equity raise. We retain our SPECULATIVE BUY recommendation and A$0.18 Price Target. We expect upcoming drill results to demonstrate further growth and continued high-grades that will underpin and increased resource in the DecQ'22. We also expect submission of permitting applications in the DecQ'22 ahead of a PFS in 2H23.

For important information, please see the Important Disclosures beginning on page 9 of this document.

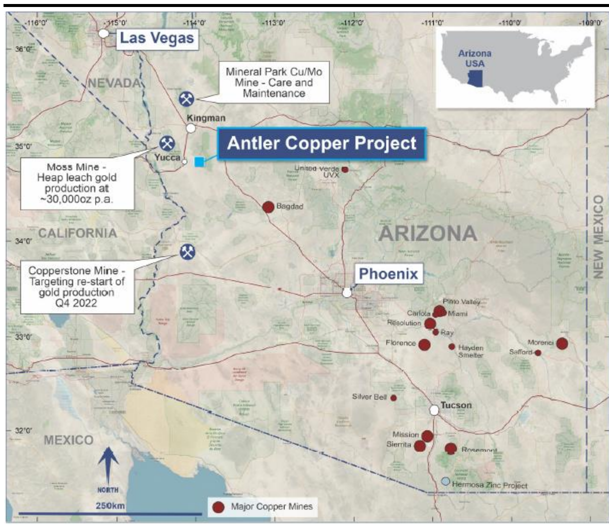
Site trip overview: A contingent of analysts, brokers and private investors travelled ~1.5 hours south from Las Vegas and used the town of Kingman as its base for the duration of the site visit. Antler is accessed via bitumen for ~45mins of Kingman to Yucca and then sealed dirt roads for the final 15km to site.

Enroute to Kingman, we stopped by the Mineral Park Cu-Mo operation, owned by Origin Mining. Given there were firing times listed on the mine gate, we are of the view that Origin has recently recommenced operation of the SX/EW plant from a porphyry source. Current resources total 447Mt @ 0.15% Cu & 0.037% Mo.

We visited the site of a potential rail siding at Yucca that could transport a concentrate from Antler south to Mexico. The Antler Scoping Study anticipates shipping 17 containers of concentrate per day from a 1Mtpa plant.

We also visited the historic site of the Mindy Mill that treated 35kt of Antler ore in the late-1970's and early-1980's. NWC sees this site as a fallback mill site should permitting and sufficient water not eventuate closer to Antler.

Figure 1: Regional location map



Source: Company Reports

Figure 2: Access to Antler and local infrastructure

Source: Company Reports

Antler Copper mine history: Over 1916-70 the Antler Copper Project was sporadically mined, producing an estimated 70kt of ore at 2.9% Cu, 6.9% Zn 1.1% Pb, 31g/t Ag & 0.3g/t Au. Ore is reported to have been mined over 200m of strike via an incline shaft to a depth of ~150m, with additional underground workings developed to 200m though no mining was undertaken.

Over 1970-75 surface and underground drilling was undertaken, 19 holes in total, with the aim of increasing confidence in the known mineralisation below the mined levels and exploring for additional mineralisation. The drilling identified high-grade panel of mineralisation over ~500m of strike and to a depth of more than 550m.

A preliminary feasibility study was completed on Antler in 1975 which reported a resource of 4.66Mt @ 1.95% Cu, 4.13% Zn 0.94% Pb ad 35.9g/t Ag (non-JORC). No mining has been undertaken at Antler since 1970 and no work from 1975 until NWC acquired the project in 2020.

Figure 3: The proposed location of a rail siding, 15km west of Antler

Source: Canaccord Genuity

Figure 4: The historic Mindy Mill site that previously processed 35kt of Antler ore

Source: Canaccord Genuity

Figure 5: View from drill pads above the Antler headframe (looking southeast)

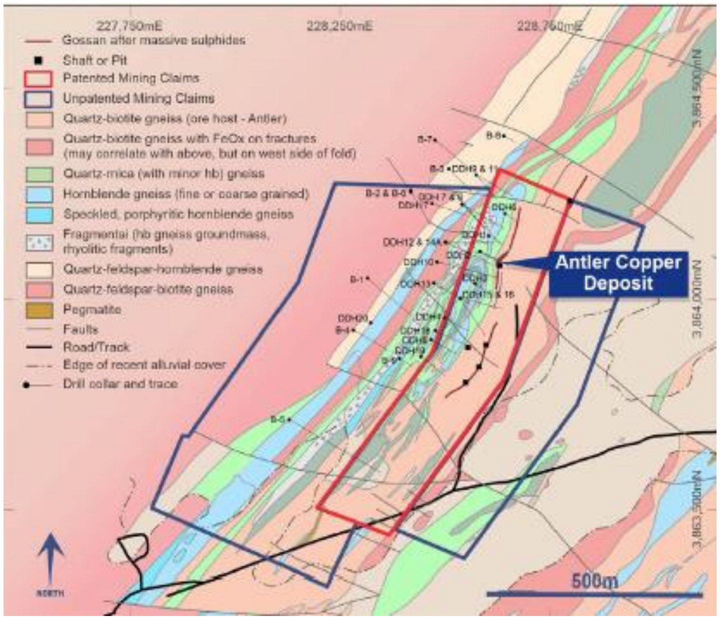
Source: Canaccord Genuity

Permitting: In Arizona, not all land use and management is the same, which can make mine permitting a challenge. In our view and fortunately for NWC, the Antler deposit is situated on private patented land comprising private mineral rights (below surface) and private land rights (on surface). The land is also managed by the Bureau of Land Management (BLM) and not the US Forestry Services (USFS). USFS land can present a more difficult permitting route given mixed land usage and greater environmental concerns. We observed few dwellings close to Antler and do not envisage much pushback on future land acquisition.

Geology: The Antler deposit lies within a belt of Precambrian gneissic and schistose rocks thought to have originally been volcanic in origin. The deposit comprises a stratabound, pyrrhotite-rich, copper-zinc volcanogenic massive sulphide (VMS) body.

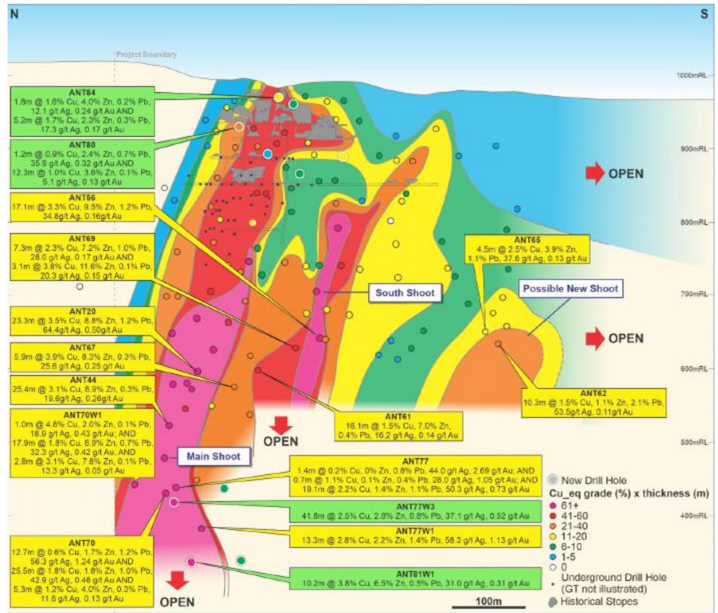
Numerous other VMS deposits, in similarly aged rocks, are present in northern Arizona. These include the United Verde Deposit – where 33Mt of ore was mined between 1883 and 1975 at a grade of 4.8% Cu, and the UVX Deposit – where 3.9Mt of ore was mined between 1915 and 1992 at a grade of 10.2% Cu. Mineralisation at the Antler deposit outcrops over more than 750m of strike at surface. The host sequence strikes in a north-easterly direction and dips to the northwest. A complex array of tight folds has been mapped, and two north-westerly trending faults have been mapped to offset and truncate the Antler Deposit. The Cavalliere Granite bounds the mine stratigraphy to the northwest with the Antler Granite and footwall schist providing a south-eastern boundary.

Figure 6: Antler geology plan



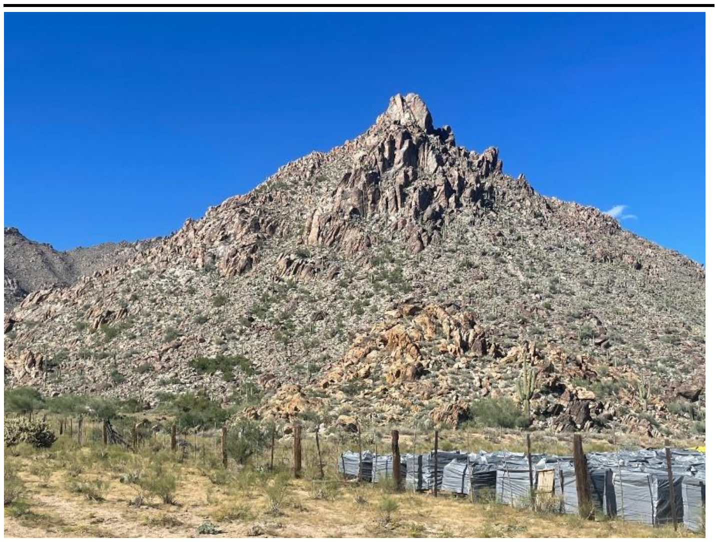
Source: Company Reports

Figure 7: Antler long section (viewed to the southeast)



Source: Company Reports

Figure 8: The Cavalliere Granite above Antler (looking northeast)



Source: Canaccord Genuity

Figure 9: Diamond drilling at Antler (looking southeast)

Source: Canaccord Genuity

Figure 10: Diamond drilling at Antler (looking southwest)

Source: Canaccord Genuity

Figure 11: The historic headframe at Antler (looking northwest)

Source: Canaccord Genuity

Figure 12: The Antler ore zone and gossan at surface (looking northeast)

Source: Canaccord Genuity

Figure 13: The Antler ore zone and gossan at surface (looking southwest)

Source: Canaccord Genuity

Figure 14: Arid desert climate

Source: Canaccord Genuity

Figure 15: The historic Antler headframe

Source: Canaccord Genuity

Scoping Study details:

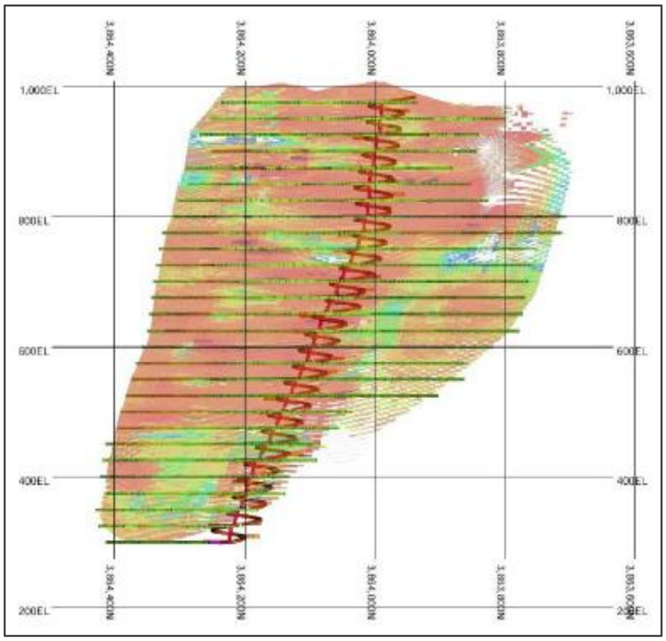
Resource to Mine Inventory: NWC has converted 95% of the resource to a mineable inventory (7.3Mt) and has conservatively assumed an additional 2Mt of dilution through mining, to yield an expected 9.3Mt @ 3.3% CuEq mined inventory. Total dilution is 18.5%. Over the 10-year life, 76% of material mined is Indicated with the remaining 24% Inferred. Over the first five years this ratio is 80:20 (Indicated:Inferred).

Mining: Antler will be mined via a single, 5x5m, 1:7 grade decline from surface. An open pit scenario was evaluated but not progressed due to the likely volume of surface disturbance and the desire for a small footprint operation to aid permitting. Longhole stope with paste backfill will be employed as the mining method. Stopes will be mined in longitudinal sequence retreating from hangingwall to footwall. Stopes have been designed using a US$70/t NSR cut-off with 25m high stopes selected as the base case scenario. Stope widths will range from 2m to 20m.

Metallurgy and processing: NWC expects to recover copper (91% total recovery), zinc (91%), lead (72%), silver (74%) and gold (68%) to three concentrates; a copper-gold conc. grading 28% Cu, a zinc conc. grading 53% Zn and a lead-silver conc. gradin 55% Pb from a nominal 1.2Mtpa plant at a rate of 1Mtpa. The flow sheet is a straightforward crush, grind (SAG), float and will use grid power and ground water. Tailings storage will be dry stack.

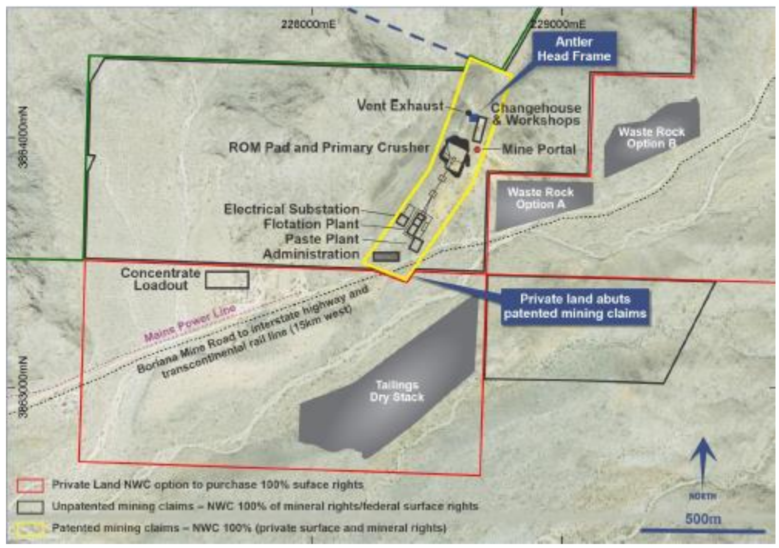
Costs: Capex is estimated at US$201m (and includes a US$36.5m contingency) versus previous CGe total capex of US$160m, which is not surprising in the current inflationary environment over the 12 months since we initiated coverage. Given the value of by-product credits, C1 (net of credits) is expected to be -US$0.31/lb and US$1.66/lb in copper equivalent terms; versus previous CGe of US$1.50/lb CuEq. On NWC's assumptions, copper accounts for 50% of the revenues with zinc accounting for 40%, lead, silver and gold make up the remaining 10%. Mining costs are estimated at US$52.03/t, processing is US$18.91/t, while G&A is expected to be US$15.00/t. TCs are expected to be US$65/dmt plus US$0.065/lb for the copper concentrate, US$190/dmt for zinc and US$90/dmt for the lead concentrate with additional refinement charges for siler and gold. On a per tonne milled, TCRCs equate to US$20.83/t. LOM sustaining capital is estimated at US$29.9m.

Figure 16: Development Design superimposed on the Resource Block Model (with colours reflecting grades)



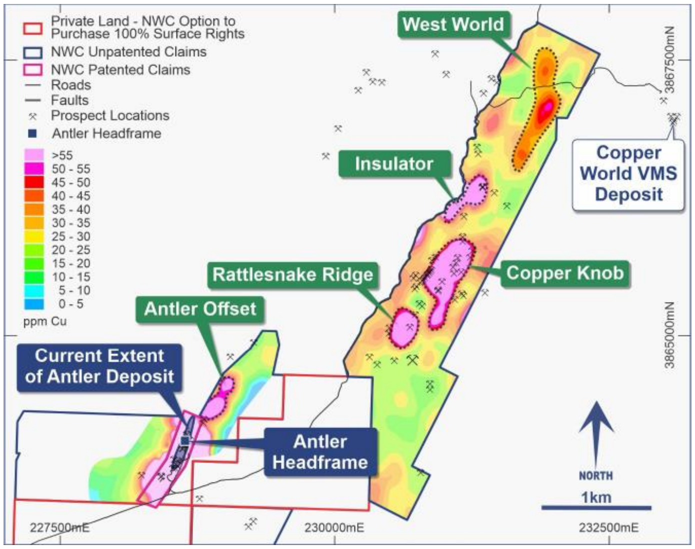
Source: Company Reports

Figure 17: Preliminary site development plan



Source: Company Reports

Figure 18: Copper-in-soil geochem at the Antler Project



Source: Company Reports

Figure 19: Copper oxides at Copper Knob

Source: Canaccord Genuity

Figure 20: Copper oxides at Copper Knob

Source: Canaccord Genuity

Appendix: Important Disclosures

Analyst Certification

Each authoring analyst of Canaccord Genuity whose name appears on the front page of this research hereby certifies that (i) the recommendations and opinions expressed in this research accurately reflect the authoring analyst's personal, independent and objective views about any and all of the designated investments or relevant issuers discussed herein that are within such authoring analyst's coverage universe and (ii) no part of the authoring analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by the authoring analyst in the research, and (iii) to the best of the authoring analyst's knowledge, she/he is not in receipt of material non-public information about the issuer.

Analysts employed outside the US are not registered as research analysts with FINRA. These analysts may not be associated persons of Canaccord Genuity LLC and therefore may not be subject to the FINRA Rule 2241 and NYSE Rule 472 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Sector Coverage

Individuals identified as "Sector Coverage" cover a subject company's industry in the identified jurisdiction, but are not authoring analysts of the report.

Investment Recommendation

Date and time of first dissemination: September 19, 2022, 16:43 ET

Date and time of production: September 19, 2022, 16:52 ET

Target Price / Valuation Methodology:

New World Resources - NWC

We have modelled a development scenario based on NWC's July 2022 Scoping Study using 1.0x forward curve and consensus commodity prices, and have applied a conservative 12% discount rate to our NPV. Our net asset valuation per share is based on a fully funded scenario.

Risks to achieving Target Price / Valuation:

New World Resources - NWC

Financing risks

As an exploration/pre-production company with no material income, NWC is reliant on equity and debt markets to fund development of its assets and progress its development pipeline. Accessing these markets may result in further dilution to shareholders.

Development and exploration risks

Development and exploration are subject to a number of risks and can require a high rate of capital expenditure. Risks can also be associated with conversion of Inferred Resources and lack of accuracy in the interpretation of geochemical, geophysical, drilling and other data. It is not known whether exploration will delineate further Mineral Resources, nor that the company will be able to convert the current mineral resource into minable reserves. There are also risks surrounding future project permitting.

Operating risks

If/when in production, the company will be subject to risks such as plant/equipment breakdowns, metallurgical (meeting design recoveries within a complex flowsheet), materials handling and other technical issues. An increase in operating costs could reduce the profitability and free cash generation from the operating assets considerably and negatively impact valuation. Further, the actual characteristics of an ore deposit may differ significantly from initial interpretations which can also materially impact forecast production from original expectations.

Commodity price and currency fluctuations

As with any mining company, NWC is directly exposed to commodity price and currency fluctuations. Commodity price fluctuations are driven by many macroeconomic forces including inflationary pressures, interest rates and supply and demand factors. These factors could reduce the profitability, costing and prospective outlook for the business.

Distribution of Ratings:

Global Stock Ratings (as of 09/19/22)

Rating	Coverage Universe		IB Clients
	#	%	%
Buy	638	66.74%	32.60%
Hold	142	14.85%	16.20%
Sell	11	1.15%	18.18%
Speculative Buy	159	16.63%	40.88%
	956*	100.0%	

*Total includes stocks that are Under Review

Canaccord Genuity Ratings System

BUY: The stock is expected to generate risk-adjusted returns of over 10% during the next 12 months.

HOLD: The stock is expected to generate risk-adjusted returns of 0-10% during the next 12 months.

SELL: The stock is expected to generate negative risk-adjusted returns during the next 12 months.

NOT RATED: Canaccord Genuity does not provide research coverage of the relevant issuer.

"Risk-adjusted return" refers to the expected return in relation to the amount of risk associated with the designated investment or the relevant issuer.

Risk Qualifier

SPECULATIVE: Stocks bear significantly higher risk that typically cannot be valued by normal fundamental criteria. Investments in the stock may result in material loss.

12-Month Recommendation History (as of date same as the **Global Stock Ratings** table)

A list of all the recommendations on any issuer under coverage that was disseminated during the preceding 12-month period may be obtained at the following website (provided as a hyperlink if this report is being read electronically) http://disclosures-mar.canaccordgenuity.com/EN/Pages/default.aspx

Required Company-Specific Disclosures (as of date of this publication)

New World Resources currently is, or in the past 12 months was, a client of Canaccord Genuity or its affiliated companies. During this period, Canaccord Genuity or its affiliated companies provided investment banking services to New World Resources.

In the past 12 months, Canaccord Genuity or its affiliated companies have received compensation for Investment Banking services from New World Resources .

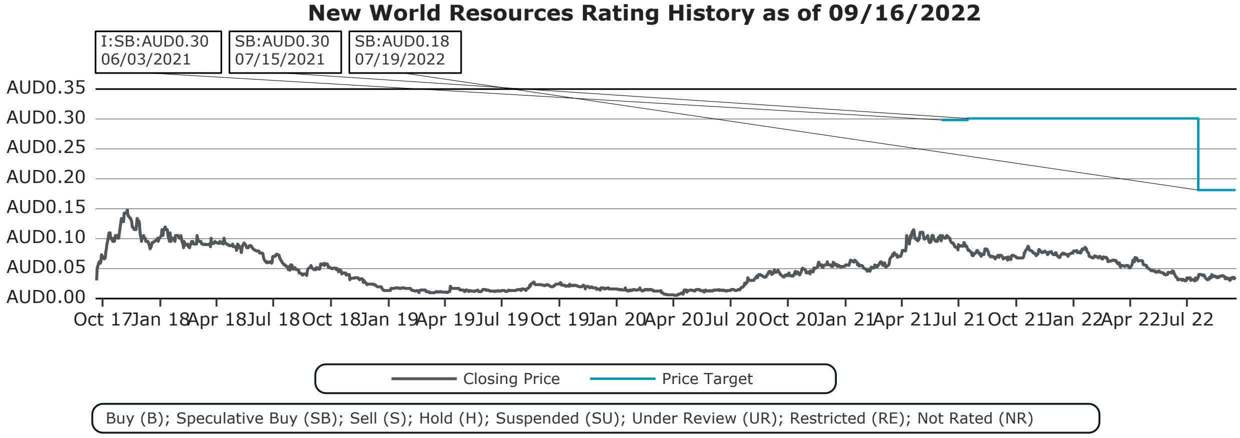
In the past 12 months, Canaccord Genuity or any of its affiliated companies have been lead manager, co-lead manager or co-manager of a public offering of securities of New World Resources or any publicly disclosed offer of securities of New World Resources or in any related derivatives.

Canaccord Genuity or one or more of its affiliated companies intend to seek or expect to receive compensation for Investment Banking services from New World Resources in the next three months.

Canaccord Genuity received a fee for its role as Joint Lead Manager to New World Resources $8m equity raise at $0.032 on 27 July 2022.

Prior to 10 January 2022 New World Resources (NWC-AU) was published under the Canaccord Genuity (Australia) Limited COLTS program.

New World Resources Rating History as of 09/16/2022



Required Company-Specific Disclosures (as of date of this publication)

Past performance

In line with Article 44(4)(b), MiFID II Delegated Regulation, we disclose price performance for the preceding five years or the whole period for which the financial instrument has been offered or investment service provided where less than five years. Please note price history refers to actual past performance, and that past performance is not a reliable indicator of future price and/or performance.

Online Disclosures

Up-to-date disclosures may be obtained at the following website (provided as a hyperlink if this report is being read electronically) http://disclosures.canaccordgenuity.com/EN/Pages/default.aspx; or by sending a request to Canaccord Genuity Corp. Research, Attn:

Disclosures, P.O. Box 10337 Pacific Centre, 2200-609 Granville Street, Vancouver, BC, Canada V7Y 1H2; or by sending a request by email to disclosures@cgf.com. The reader may also obtain a copy of Canaccord Genuity's policies and procedures regarding the dissemination of research by following the steps outlined above.

General Disclaimers

See "Required Company-Specific Disclosures" above for any of the following disclosures required as to companies referred to in this report: manager or co-manager roles; 1% or other ownership; compensation for certain services; types of client relationships; research analyst conflicts; managed/co-managed public offerings in prior periods; directorships; market making in equity securities and related derivatives. For reports identified above as compendium reports, the foregoing required company-specific disclosures can be found in a hyperlink located in the section labeled, "Compendium Reports." "Canaccord Genuity" is the business name used by certain wholly owned subsidiaries of Canaccord Genuity Group Inc., including Canaccord Genuity LLC, Canaccord Genuity Limited, Canaccord Genuity Corp., and Canaccord Genuity (Australia) Limited, an affiliated company that is 80%-owned by Canaccord Genuity Group Inc.

The authoring analysts who are responsible for the preparation of this research are employed by Canaccord Genuity Corp. a Canadian broker-dealer with principal offices located in Vancouver, Calgary, Toronto, Montreal, or Canaccord Genuity LLC, a US broker-dealer with principal offices located in New York, Boston, San Francisco and Houston, or Canaccord Genuity Limited., a UK broker-dealer with principal offices located in London (UK) and Dublin (Ireland), or Canaccord Genuity (Australia) Limited, an Australian broker-dealer with principal offices located in Sydney and Melbourne.

The authoring analysts who are responsible for the preparation of this research have received (or will receive) compensation based upon (among other factors) the Investment Banking revenues and general profits of Canaccord Genuity. However, such authoring analysts have not received, and will not receive, compensation that is directly based upon or linked to one or more specific Investment Banking activities, or to recommendations contained in the research.

Some regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of research. This research has been prepared in accordance with Canaccord Genuity's policy on managing conflicts of interest, and information barriers or firewalls have been used where appropriate. Canaccord Genuity's policy is available upon request.

The information contained in this research has been compiled by Canaccord Genuity from sources believed to be reliable, but (with the exception of the information about Canaccord Genuity) no representation or warranty, express or implied, is made by Canaccord Genuity, its affiliated companies or any other person as to its fairness, accuracy, completeness or correctness. Canaccord Genuity has not independently verified the facts, assumptions, and estimates contained herein. All estimates, opinions and other information contained in this research constitute Canaccord Genuity's judgement as of the date of this research, are subject to change without notice and are provided in good faith but without legal responsibility or liability.

From time to time, Canaccord Genuity salespeople, traders, and other professionals provide oral or written market commentary or trading strategies to our clients and our principal trading desk that reflect opinions that are contrary to the opinions expressed in this research. Canaccord Genuity's affiliates, principal trading desk, and investing businesses also from time to time make investment decisions that are inconsistent with the recommendations or views expressed in this research.

This research is provided for information purposes only and does not constitute an offer or solicitation to buy or sell any designated investments discussed herein in any jurisdiction where such offer or solicitation would be prohibited. As a result, the designated investments discussed in this research may not be eligible for sale in some jurisdictions. This research is not, and under no circumstances should be construed as, a solicitation to act as a securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. This material is prepared for general circulation to clients and does not have regard to the investment objectives, financial situation or particular needs of any particular person. Investors should obtain advice based on their own individual circumstances before making an investment decision. To the fullest extent permitted by law, none of Canaccord Genuity, its affiliated companies or any other person accepts any liability whatsoever for any direct or consequential loss arising from or relating to any use of the information contained in this research.

Research Distribution Policy

Canaccord Genuity research is posted on the Canaccord Genuity Research Portal and will be available simultaneously for access by all of Canaccord Genuity's customers who are entitled to receive the firm's research. In addition research may be distributed by the firm's sales and trading personnel via email, instant message or other electronic means. Customers entitled to receive research may also receive it via third party vendors. Until such time as research is made available to Canaccord Genuity's customers as described above, Authoring Analysts will not discuss the contents of their research with Sales and Trading or Investment Banking employees without prior compliance consent.

For further information about the proprietary model(s) associated with the covered issuer(s) in this research report, clients should contact their local sales representative.

Short-Term Trade Ideas

Research Analysts may, from time to time, discuss "short-term trade ideas" in research reports. A short-term trade idea offers a near-term view on how a security may trade, based on market and trading events or catalysts, and the resulting trading opportunity that may be available. Any such trading strategies are distinct from and do not affect the analysts' fundamental equity rating for such stocks. A short-term trade idea may differ from the price targets and recommendations in our published research reports that reflect the research analyst's views of the longer-term (i.e. one-year or greater) prospects of the subject company, as a result of the differing time horizons, methodologies and/or other factors. It is possible, for example, that a subject company's common equity that is considered a long-term ‘Hold' or 'Sell' might present a short-term buying opportunity as a result of temporary selling pressure in the market or for other reasons described in the research report; conversely, a subject company's stock rated a long-term 'Buy' or “Speculative Buy’ could be considered susceptible to a downward price correction, or other factors may exist that lead the research analyst to suggest a sale over the short-term. Short-term trade ideas are not ratings, nor are they part of any ratings system, and the firm does not intend, and does not undertake any obligation, to maintain or update short-term trade ideas. Short-term trade ideas are not suitable for all investors and are not tailored to individual investor circumstances and objectives, and investors should make their own independent decisions regarding any securities or strategies discussed herein. Please contact your salesperson for more information regarding Canaccord Genuity’s research.

For Canadian Residents:

This research has been approved by Canaccord Genuity Corp., which accepts sole responsibility for this research and its dissemination in Canada. Canaccord Genuity Corp. is registered and regulated by the Investment Industry Regulatory Organization of Canada (IIROC) and is a Member of the Canadian Investor Protection Fund. Canadian clients wishing to effect transactions in any designated investment discussed should do so through a qualified salesperson of Canaccord Genuity Corp. in their particular province or territory.

For United States Persons:

Canaccord Genuity LLC, a US registered broker-dealer, accepts responsibility for this research and its dissemination in the United States. This research is intended for distribution in the United States only to certain US institutional investors. US clients wishing to effect transactions in any designated investment discussed should do so through a qualified salesperson of Canaccord Genuity LLC. Analysts employed outside the US, as specifically indicated elsewhere in this report, are not registered as research analysts with FINRA. These analysts may not be associated persons of Canaccord Genuity LLC and therefore may not be subject to the FINRA Rule 2241 and NYSE Rule 472 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

For United Kingdom and European Residents:

This research is distributed in the United Kingdom and elsewhere Europe, as third party research by Canaccord Genuity Limited, which is authorized and regulated by the Financial Conduct Authority. This research is for distribution only to persons who are Eligible Counterparties or Professional Clients only and is exempt from the general restrictions in section 21 of the Financial Services and Markets Act 2000 on the communication of invitations or inducements to engage in investment activity on the grounds that it is being distributed in the United Kingdom only to persons of a kind described in Article 19(5) (Investment Professionals) and 49(2) (High Net Worth companies, unincorporated associations etc) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended). It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons. This material is not for distribution in the United Kingdom or elsewhere in Europe to retail clients, as defined under the rules of the Financial Conduct Authority.

For Jersey, Guernsey and Isle of Man Residents:

This research is sent to you by Canaccord Genuity Wealth (International) Limited (CGWI) for information purposes and is not to be construed as a solicitation or an offer to purchase or sell investments or related financial instruments. This research has been produced by an affiliate of CGWI for circulation to its institutional clients and also CGWI. Its contents have been approved by CGWI and we are providing it to you on the basis that we believe it to be of interest to you. This statement should be read in conjunction with your client agreement, CGWI's current terms of business and the other disclosures and disclaimers contained within this research. If you are in any doubt, you should consult your financial adviser.

CGWI is licensed and regulated by the Guernsey Financial Services Commission, the Jersey Financial Services Commission and the Isle of Man Financial Supervision Commission. CGWI is registered in Guernsey and is a wholly owned subsidiary of Canaccord Genuity Group Inc.

For Australian Residents:

This research is distributed in Australia by Canaccord Genuity (Australia) Limited ABN 19 075 071 466 holder of AFS Licence No 234666. To the extent that this research contains any advice, this is limited to general advice only. Recipients should take into account their own personal circumstances before making an investment decision. Clients wishing to effect any transactions in any financial products discussed in the research should do so through a qualified representative of Canaccord Genuity (Australia) Limited or its Wealth Management affiliated company, Canaccord Genuity Financial Limited ABN 69 008 896 311 holder of AFS Licence No 239052.

For Hong Kong Residents:

This research is distributed in Hong Kong by Canaccord Genuity (Hong Kong) Limited which is licensed by the Securities and Futures Commission. This research is only intended for persons who fall within the definition of professional investor as defined in the Securities and Futures Ordinance. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons. Recipients of this report can contact Canaccord Genuity (Hong Kong) Limited. (Contact Tel: +852 3919 2561) in respect of any matters arising from, or in connection with, this research.

Additional information is available on request.