

# Alteration Study at Blackdome Identifies Significant Exploration Potential

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## HIGHLIGHTS

- Blackdome Gold Mine considered highly prospective for further exploration success after detailed alteration study and data review undertaken by one of the world's pre-eminent experts on epithermal style gold mineralisation, Dr. Jeffrey Hedenquist
- Studies suggest potential to discover new gold-silver epithermal veins within close proximity to the existing, permitted Blackdome Mine plant
- Blackdome mineralisation likely extends deeper than previously thought with multiple, high-grade assays reported under mined stopes

PERTH, August 23, 2021 - [Tempus Resources Ltd.](#) ("Tempus" or the "Company") (ASX:TMR)(TSX.V:TMRR)(OTCQB:TMRFF) is pleased to announce that it has received the results of an alteration study and review on the Blackdome Gold Mine, highlighting its potential to host additional gold mineralisation. The study included a review of drill core photographs and data by Dr. Jeffrey Hedenquist, a world-renowned expert in epithermal gold mineralisation and deposits.

Tempus President and CEO, Jason Bahnsen, commented "Blackdome Gold Mine produced approximately 230,000 ounces of gold between 1985 and 1991 at an average mill head grade of almost 22g/t. The alteration study shows that the previous drilling and mining was high up in the epithermal system, indicating there is strong potential for significant discovery of additional mineralisation directly below previously mined areas and also for new vein discoveries to the west."

In 2020, the Company collected infrared samples using the routine short-wave infrared ("SWIR") method on 1,097 diamond drill core pulp samples and 50 mine coarse reject samples from Blackdome for analysis at ALS Laboratories specialist facility in Reno, Nevada. The resultant spectra were processed and interpreted by Mrs. Joanna Lipske of JnJ Exploration LLC, using The Spectral Geologist (TSG™) software.

SWIR analysis on drill core improves the geologist's ability to detect hydrous alteration minerals and parameters not visible to the eye such as compositional shifts and proxies for crystallinity, particularly in a low-sulfidation epithermal environment such as the main gold mineralising event at Blackdome. This is important in identifying the position in the epithermal system with reference to the 'boiling zone', which is typically the main bonanza high-grade zone of an epithermal gold system.

As discussed in the exploration update announced on 12 April 2021, drilling at Blackdome in 2020 targeted the Giant Vein, Redbird Vein, No.17 Vein and No.3 Vein. The drilling results showed textures interpreted to be higher up in the Blackdome epithermal gold system (ie, above the boiling zone). This visual interpretation has now been further supported by the alteration mineral identification from the SWIR analysis and expert input from Mrs. Lipske and Dr. Hedenquist. SWIR analysis identified the primary alteration to be a low-temperature mineral (smectite) known to develop at shallow paleo-depths over top of an epithermal gold-silver system.

Of great interest were the wide intersects of low-temperature minerals in drill holes BD-20-10, BD-20-11, and BD-20-12 (see Figure 1) followed by several meters of higher-temperature minerals (smectite-illite) at the end of the hole. Illite forms at higher temperatures and is therefore more proximal to the hotter, ore-forming fluids. These holes were drilled well beyond the Giant Vein toward the west and are seemingly entering into a new zone where epithermal fluids may have been at the right conditions for gold-silver mineralisation north and west of the Giant vein.

The areas north and west of the Giant Vein have never been drilled. Soil sampling from 2018 identified two

silver and gold trends at the southern extent of the soil grid which are coincident with airborne magnetic trends (Figure 1). Airborne geophysics flown in 2016 identified a number of lineaments which are parallel to the identified gold-silver veins at Blackdome. Tempus now considers these highly prospective targets and warrant further exploration

The previous drilling results from the No.3 Vein intersected wide zones of mineralisation with narrow high-grade gold veins, up to 28g/t gold. Quartz vein textures along with the identification of smectite also places these gold intercepts at shallow paleo-depths over top of an epithermal gold-silver system

Further review of data in the No.1 and No.2 Veins suggests these veins continue down plunge deeper than previously thought. Several drill hole intervals below mined depths of 150m below surface on the No.1 and No.2 Veins have double digit and even triple digit gold grades. Drilling below mined stopes at Blackdome is minimal and continued drilling would likely define additional gold ounces. Similar epithermal gold deposits in New Zealand typically have a vertical extent of approximately 170-300 metres which is favourable for Blackdome as the vast majority of the historically 230,000 ounces of gold was mined over a vertical interval of about 100 m, based on the outline of the existing stopes (figure 2).

#### Elizabeth Drilling Update

Tempus has completed 4,500m of drilling since the program started 5 June 2021 and is currently drilling hole EZ-21-17. Drill-holes EZ-21-05 to EZ-21-14 are currently in the laboratory awaiting results. Results will be reported as they are received by the Company.

Figure 1 - Blackdome plan map with Total Magnetic Intensity (TMI) background

Figure 2 - Blackdome long-section imposing historic stopes along the No.1 & No.2 Veins.

The Blackdome Gold Mine is located ~230 km north northwest of Vancouver and 30km north of Tempus' Elizabeth deposit. The Blackdome Mine produced, ~230k oz @ 22 g/t gold (mill head grade) during 1985 - 1991 and maintains a permitted 300 tonnes per day capacity mill and tailings storage (circuit suitable for processing Elizabeth ore).

This announcement has been authorised by the Board of Directors of [Tempus Resources Ltd.](#)

#### Competent Persons Statement

Information in this report relating to Exploration Results is based on information reviewed by Mr. Kevin Piepgrass, who is a Member of the Association of Professional Engineers and Geoscientists of the province of BC (APEGBC), which is a recognised Professional Organisation (RPO), and an employee of Tempus Resources. Mr. Piepgrass has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves, and as a Qualified Person for the purposes of NI43-101. Mr. Piepgrass consents to the inclusion of the data in the form and context in which it appears.

For further information:

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About Tempus Resources Ltd

[Tempus Resources Ltd.](#) ("Tempus") is a growth orientated gold exploration company listed on ASX ("TMR")

and TSX.V ("TMRR") and OTCQB ("TMRFF") stock exchanges. Tempus is actively exploring projects located in Canada and Ecuador. The flagship project for Tempus is the Blackdome-Elizabeth Project, a high grade gold past producing project located in Southern British Columbia. Tempus is currently midway through a drill program at Blackdome-Elizabeth that will form the basis of an updated NI43-101/JORC resource estimate. The second key group of projects for Tempus are the Rio Zarza and Valle del Tigre projects located in south east Ecuador. The Rio Zarza project is located adjacent to Lundin Gold's Fruta del Norte project. The Valle del Tigre project is currently subject to a sampling program to develop anomalies identified through geophysical work.

#### Forward-Looking Information and Statements

This press release contains certain "forward-looking information" within the meaning of applicable Canadian securities legislation. Such forward-looking information and forward-looking statements are not representative of historical facts or information or current condition, but instead represent only the Company's beliefs regarding future events, plans or objectives, many of which, by their nature, are inherently uncertain and outside of Tempus's control. Generally, such forward-looking information or forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or may contain statements that certain actions, events or results "may", "could", "would", "might" or "will be taken", "will continue", "will occur" or "will be achieved". The forward-looking information and forward-looking statements contained herein may include, but are not limited to, the ability of Tempus to successfully achieve business objectives, and expectations for other economic, business, and/or competitive factors. Forward-looking statements and information are subject to various known and unknown risks and uncertainties, many of which are beyond the ability of Tempus to control or predict, that may cause Tempus' actual results, performance or achievements to be materially different from those expressed or implied thereby, and are developed based on assumptions about such Page | 4 risks, uncertainties and other factors set out herein and the other risks and uncertainties disclosed under the heading "Risk and Uncertainties" in the Company's Management's Discussion & Analysis for the quarter and nine months ended March 31, 2021 dated May 14, 2021 filed on SEDAR. Should one or more of these risks, uncertainties or other factors materialize, or should assumptions underlying the forward-looking information or statements prove incorrect, actual results may vary materially from those described herein as intended, planned, anticipated, believed, estimated or expected. Although Tempus believes that the assumptions and factors used in preparing, and the expectations contained in, the forward-looking information and statements are reasonable, undue reliance should not be placed on such information and statements, and no assurance or guarantee can be given that such forward-looking information and statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information and statements. The forward-looking information and forward-looking statements contained in this press release are made as of the date of this press release, and Tempus does not undertake to update any forward-looking information and/or forward-looking statements that are contained or referenced herein, except in accordance with applicable securities laws. All subsequent written and oral forward-looking information and statements attributable to Tempus or persons acting on its behalf are expressly qualified in its entirety by this notice. Neither the TSX Venture Exchange nor its Regulation Service Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release .

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