

Bunker Hill Mining Confirms Numerous High-Grade Silver Exploration Targets Following Digitisation of Historic Data

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HIGHLIGHTS

- A first digitized 3D model of Bunker Hill's geology has successfully been created with the goal of leveraging the historical mine data to identify and prioritize high grade silver targets
- Data has been inputted from over 180,000 meters of drilling from 3,500 historic drill-holes and hundreds of detailed historic mine geology maps
- Historical drill results demonstrate significant high-grade silver intercepts including 1.5m at 2,778 g/t Ag, 1.5m at 1,145 g/t Ag, and 1.5m at 950 g/t Ag
- The digitization process has confirmed numerous high-grade silver targets
- A first high grade silver focused exploration campaign is set to commence in the coming days

TORONTO, Sept. 09, 2020 -- [Bunker Hill Mining Corp.](#) (the "Company") (CSE: BNKR) is pleased to report that the ongoing digitization and 3D modeling of historic geological data has confirmed numerous high-grade Silver exploration targets at its Bunker Hill Mine located in Idaho's Silver Valley, USA. Based on the enhanced geological understanding, the Company confirms that it is pursuing the high grade silver potential of the Bunker Hill mine as its primary focus. As such, a first high grade silver focused exploration campaign is set to commence in the coming days.

Sam Ash, CEO stated: "This modernizing digitization process, underpinned by the high quality and quantity of the data, has significantly enhanced our geologic understanding and boosted our confidence in the high grade silver potential of the Bunker Hill Mine. We have therefore made silver our primary focus and we look forward to exploring the multiple targets identified to date, starting with drilling from mid-September";

Following the change in management in early 2020, a digitisation program was launched in Q2-2020 to leverage the historical mine data collected over a 95-year period to identify and prioritize high grade silver targets. Data has been inputted from over 180,000 meters of drilling from 3,500 historic drill-holes and hundreds of detailed historic mine geology maps capturing all major faults and veins, alterations, mineralization and stratigraphy.

Initial modeling has allowed for a reconstruction of rock units and vein structures to their position prior to post-mineral fault offsets, providing a new level of interpretation on controls of mineralization, and enabling projection of vein segments offset by these faults. This in turn has informed the ongoing development exploration targets aimed at specific offsets of veins with historic high-grade silver production and target the exact host rock with the best potential for thicker vein widths.

The 3D geological model created has significantly enhanced the Company's understanding of the underlying geology, with the following key takeaways:

- Correlation of the strongest mineralization with the quartzites of the M2 Unit of the Upper Revett Formation
- Confirmation of the deposition sequence and the vein types
- Further confirmation that the faulting occurred post-mineralization

Planning for the upcoming exploration program is currently being finalized, with the goal of prioritizing silver targets which are close to the surface and in proximity to existing infrastructure.

The previous exploration campaign, conducted in Q2-2020, was focused on confirming the mineralization of

the zinc-rich Newgard, Quill and UTZ ore bodies. Drill results have been successfully analyzed and a maiden Inferred resource is expected to be published in the coming weeks.

ABOUT THE HISTORICAL DATA DIGITISATION PROCESS

During the long and continuous operating history of the Bunker Hill Mine, its geologic staff systematically mapped over 150 miles of underground workings, with the data recorded on a standardized series of maps for planning and exploration. In addition, the mine completed over 180,000 meters of drilling from 3,500 drill holes, meticulously recording the findings using the various pre-digital systems available at the time. When major mining operations at Bunker Hill ceased in 1981, these and other relevant data sets were catalogued and preserved at the Bunker Hill Mine, where it has remained, relatively untouched, for the last 40 years.

Following the change in executive management in Q2 2020, and concurrent to a verification program designed to establish a resource estimate for the mineralization contained within the Quill, Newgard and UTZ ore bodies, a data digitisation program was launched to better leverage the historical mine data collected over a period of 95 years in order to identify and prioritize high grade silver targets.

This has enabled the construction of the first 3D geologic and structural models of the Bunker Hill Mine which has enhanced the Company's understanding of its overall potential as well as improved its ability to more accurately target its underexplored silver.

DESCRIPTION OF KEY FINDINGS:

(1) Correlation of the strongest mineralization with the quartzite lithologies of the M2 Unit of the Upper Revett Formation.

Analysis and review of geologic data and reports in the historic data set revealed that mineralization at the Bunker Hill mine is most strongly correlated to specific lithologies. Specifically, it has shown that the primary host rock is the thicker quartzite units within the Revett formation, and the M2 unit in particular.

Figure 1: Historic surface lithology map digitized and uploaded into 3D model

<https://www.globenewswire.com/NewsRoom/AttachmentNg/f560c2cd-e30f-4b01-959f-311614c0e883>

- Digitizing the detailed geologic mapping data has allowed the creation of the first 3D lithology and structural model. Previous geologists were only able to look at this data in plan view on a level by level basis on hand-plotted cross-sections; a time-consuming and disjointed process that made it extremely hard to accurately interpret and project the complex series of structures and lithologies hosting and cutting the mineralization.
- In contrast, the modern 3D model is designed to reconstruct the stratigraphy in ways that take account of post-mineral fault offsets, allowing the team to model and visualize the structural preparation of the host rocks prior to and during mineralization. This enables an exploration model to target areas of proven structural preparation, in preferable host rocks, with geologic evidence of mineralization. These targets areas can then be offset by the known movement vectors and timing on the post-mineral fault system and projected to their current position for drill testing.

Figure 2: Historic lithology map overlaid on surface topography with 3D model of sub surface lithology

<https://www.globenewswire.com/NewsRoom/AttachmentNg/23e2b243-de7b-44c6-82a2-07d5b8bd8425>

- This investigation has also highlighted sections of this prospective M2 Unit that have not yet been explored or mined. Some of these are parallel to historical mining areas and near to the surface and existing infrastructure, as seen in Fig 2 above.

(2) Confirmation of the deposition sequence and the vein types

- A digitally enabled projection of the historical geologic data onto the structural investigations conducted in the late 1970s indicate that there were two distinct depositional events at Bunker Hill. The first represented by a West-Northwest trend of zinc-dominant mineralization with gradational margins, known locally at the *Bluebird Veins*; with the second being a series of North-Northeast trending structures with silver-lead mineralization with sharp, vein-like contacts that post-date and cut the earlier zinc mineralization known locally as the *Galena-Quartz Veins*.
- Hybridization also occurs in areas where the secondary lead-silver mineralization intersects and enriches the areas of primary zinc mineralization.

Figure 3: Cross-Section of Bunker Hill Mine workings, looking northeast at 054 azimuth. Red shapes are historic stopes on zinc-dominant mineralization along west-northwest Bluebird Vein system. Magenta shapes are northeast oriented Galena-Quartz Vein system with historic high-grade silver production

<https://www.globenewswire.com/NewsRoom/AttachmentNg/a969092b-31c3-477a-b070-b333e1e2ddee>

- The geological reports of the 1970s concluded that high-grade silver deposition is largely controlled by the North-Northeast Galena-Quartz Vein system, and this has been confirmed by the new 3D modeling process, which enables the design of a silver-focused exploration program of these veins contained within the M2 Quartzite Units.
- The recent exploration conducted in Q2 2020 of the mineralization contained within the Newgard, Quill and UTZ Ore bodies above 10 Level, was focused on verifying part of a primarily zinc-rich Bluebird Vein structure, with some evidence of hybridization.

(3) Further confirmation that the faulting occurred post-mineralization.

- Prior to the first detailed structural studies conducted in the late 1970s, it was believed that it was the many faults, and in particular the Cate Fault, that were the key structures controlling mineralization. An assumption that underpinned the exploration and mine planning for nearly 95% of the mine's history.
- But as a result of this seminal work conducted in the last few years before the mine closed in 1981, it was demonstrated that the structure of the Bunker Hill deposits is associated with an anticline in the Revett formation and hosted by the fold-generated fractures and brecciation in the quartzite beds created in the hinge and near-hinge limbs of the flexure, with faulting occurring post-mineralization.

Figure 4: M2 quartzite unit of the Revett formation with offsets along post-mineral faults.

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- Digitization and subsequent 3D modeling and analysis has enabled creation of a comprehensive fault model. This has allowed for the exploration targets envisioned by the prior generation of geologists to be reconstructed and pinpointed as well as facilitating the identification of movement vectors along structures. Crucially, this allows targeting of offset portions of veins with historic high-grade silver production, and projection of structures controlling silver-lead mineralization into preferential host rocks across offsetting structures, well outside of historically mined or explored areas.

CONCLUSIONS AND NEXT STEPS

Fusing the conclusions drawn from this data-rich 3D model with the seminal analytical work done in the final years of the mine's life has enabled the Company to categorise the exploration potential of this polymetallic mine relative to both structure and primary mineral; and then identify the location of specific galena-quartz or hybrid veins as high-potential silver exploration targets. Planning for the upcoming exploration program is currently being finalized, with the goal of prioritizing silver targets which are close to the surface and in proximity to existing infrastructure. A first high grade silver focused exploration campaign is set to commence in the coming days.

Qualified Person

Mr. Scott E. Wilson, CPG, President of Resource Development Associates Inc. and a consultant to the Company, is an independent "Qualified Person" as defined by NI 43-101 and is acting at the

Qualified Person for the Company. He has reviewed and approved the technical information summarized in this news release.

About Bunker Hill Mining Corp.

[Bunker Hill Mining Corp.](#) has an option to acquire 100% of all saleable assets at the Bunker Hill Mine. Information about the Company is available on its website, www.bunkerhillmining.com, or within the SEDAR and EDGAR databases.

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