

# Resolution Minerals Ltd: Tungsten Concentrates Produced from Golden Gate

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Adelaide, Australia - [Resolution Minerals Ltd.](#) (ASX:RML) (FRA:NC3) (OTCMKTS:RLMLF) reported that tungsten concentrates of 52.3% tungsten trioxide (WO<sub>3</sub>) have been produced from preliminary gravity separation test work on tungsten composite samples, assaying 1.85% WO<sub>3</sub>, from stockpiles at the Johnson Creek mill site, originally sourced from the historical mining at the Golden Gate Tungsten mine, by IMO labs in Perth Australia (Sample grade reported in ASX announcement 26 March 2026).

## HIGHLIGHTS

**Tungsten Concentrate Produced:** Tungsten concentrates of 52.3% tungsten trioxide (WO<sub>3</sub>) were produced from preliminary gravity separation test work on large samples from tungsten bearing stockpiles at the Johnson Creek mill site, sourced from the historical mining at the Golden Gate Tungsten mine, within Resolution's Horse Heaven Antimony-Tungsten-Gold Project in Idaho USA.

**Significant Tungsten Upgrade Achieved in Test Work:** Stockpiled tungsten bearing ore is clearly amenable to simple gravity flotation processing in preliminary test work, as indicated by a significant upgrade, by a factor of 19 (19 times), relative to the stockpile composite sample tungsten grades 1.85 wt% WO<sub>3</sub>, present predominantly as scheelite.

**Scoping Tests Completed:** Heavy liquid separation (HLS) scoping tests have been completed achieving up to 75.5% recovery grading 52.3 wt% WO<sub>3</sub>, with an upgrade ratio of 19. Mineral Processing Test Work Progressing: Further testing of concentrates is underway with a larger sample (50kg) being prepared for concentration via shaker table and final product results will be released in the coming weeks.

**Encouraging Results:** Although the Heavy Liquid Separation (HLS) is preliminary, the results are encouraging for the short-term processing of the historical tungsten stockpile via simple gravity methods.

**Other Concentrate Test Work:** Test work is also advancing on options to concentrate the antimony ore and gold at IMO labs in Perth, Australia, with further results soon.

**Smelting and Refining Discussions Progressing:** Discussions with tungsten smelting and refining companies are underway.

The processing options for tungsten stockpiles forms part of Resolution's broader Horse Heaven strategy, which includes recently acquired processing infrastructure and a major 2026 drilling program at Golden Gate starting in May targeting gold and tungsten.

Heavy liquid separation (HLS) scoping tests have been completed on the tungsten composite samples, achieving up to 75.5% recovery grading 52.3wt% WO<sub>3</sub>, with an upgrade ratio of 19, relative to the stockpile composite sample tungsten grades of 1.85 wt% WO<sub>3</sub>.

**Size-by-assay test work:** Size by assay was undertaken to understand the effect of different particle sizes on the liberation of tungsten-bearing minerals from the other "gangue" material in the stockpiled ore. The sample was crushed to 100% of the material passing through a 3.35mm screen (P100 3.35mm), then screened at seven different sizes with each fraction being collected and assayed independently (Table 1\*). This size-by-assay approach identifies if the tungsten minerals present naturally concentrate within specific size ranges, ultimately allowing determination of the best concentration strategy.

**HLS Test Work:** Heavy liquid separation (HLS) is a process which exploits the natural difference in density between minerals. Tungsten containing minerals like scheelite are relatively dense compared to quartz and clays that they are associated with. Selecting a liquor with a density slightly higher than those uneconomic (gangue) minerals like quartz provides a media whereby the tungsten minerals are dense enough to sink to the bottom of the liquid whilst the gangue minerals float to the surface - providing a crude indication of the performance of well-known gravity separation methods. With the exception of the -0.02mm fraction, each screened fraction was subject to HLS at SG 2.9 (Specific Gravity - measure of density), with "sinks" representing the tungsten concentrate and "floats" representing the gangue. The upgrade ratio is a ratio of the WO<sub>3</sub> concentration of the HLS concentrate ("sinks") relative to the corresponding WO<sub>3</sub> concentration of each size fraction. The recovery indicate the amount (mass) of WO<sub>3</sub> that reported to the HLS concentrate

("sinks") relative to the corresponding WO<sub>3</sub> mass of each size fraction.

At the finest grind size of smaller than 0.53mm to larger than 0.02mm (-0.053mm, +0.02mm), a grade of 52.3% WO<sub>3</sub> was achieved with recovery of 75.5% (see Table 2\*). The results also indicate that the grade remained relatively consistent at ~35% WO<sub>3</sub> below the sample size of 0.5mm, while recovery increased with a decrease in particle size (see Figure 1\*). The results indicate that decreasing particle size increases both grade and recovery.

Further Test Work Progressing: Test work is now underway on a larger sample (50kg), ground to <0.25mm based on the HLS test results - which will be subjected to concentration via shaker table.

Test work is also advancing on options to concentrate the antimony ore and gold-bearing samples at IMO labs in Perth, Australia, with results expected soon.

Dr. Adam Roper, Resolution's In-house Senior Metallurgist, stated: "The initial results are encouraging for the short-term processing of the historical tungsten stockpiles via simple gravity methods. This is a great start and I'm looking forward to discussing the final results in the coming weeks, while discussions are underway with smelters and refiners."

Composite Sample from Stockpiles: Assay results of a late-2025 sampling program of historical stockpiles at the Johnson Creek mill site, containing ore material from the historical Golden Gate Tungsten Mine, returned high-grade tungsten, material levels of gold and low levels of impurity elements (See ASX announcement 26 March 2026).

A mini-bulk-sample of 93.6kg comprising composite of six samples of stockpile material contained 1.85% WO<sub>3</sub> and material levels of gold at 0.11g/t. Independent mineralogy study identifies scheelite as the predominant WO<sub>3</sub> ore mineral, with low levels of impurities, including but not limited to arsenic (As): 97 ppm; molybdenum (Mo): below detection; and phosphorus (P): below detection. Quartz (>90%) was identified as the predominant gangue mineral (non-ore) with minor gangue minerals calcite (trace levels) and potassic-mica (trace levels). (See ASX announcement 26 March 2026).

Historical mining occurred at Golden Gate in the 1950's and the 1970's until 1980. During World War II, the local District, including the adjoining Stibnite mine (Perpetua Resources), is estimated to have produced more than 90% of the US Antimony and 50% of the US Tungsten (Source: Perpetua Resources Stibnite Feasibility Study, Jan 2021). Golden Gate Tungsten mine is located within Resolution's Horse Heaven Antimony-Tungsten-Gold-Silver Project in Idaho, USA, and immediately adjacent to Perpetua Resources' Stibnite Gold Project, a large, recently permitted Antimony-Gold project. This result follows the selection of Antimony Ridge for FAST-41 Transparency Coverage from the US Permitting Council, announced on 8 April 2026. Selection reflects the strategic importance of Antimony Ridge as a potential source of U.S. domestic antimony supply, a critical metal essential for defence, energy, and industrial applications.

#### Future Plans

Further tungsten concentrate test work is underway and final product results will be released in the coming weeks. Resolution is initiating a major Phase 2 drilling program in May 2026, at the Golden Gate Project, of up to 45,000 ft (13,700 metres) of diamond core drilling located within the Company's larger Horse Heaven Antimony-Tungsten-Gold-Silver Project. The program is designed to define the scale of gold and tungsten mineralisation at Golden Gate and Golden Gate South and support progression toward a maiden Mineral Resource Estimate.

\*To view tables and figures, please visit:  
<https://abnnewswire.net/lnk/94VFO355>

#### About Resolution Minerals Ltd:

Resolution Minerals Ltd (ASX:RML) (OTCMKTS:RLMLF) (FRA:NC3) is a mineral exploration company engaged in the acquisition, exploration and development of precious and battery metals - such as antimony, gold, copper, and uranium.

Resolution Minerals Ltd Listed on the ASX in 2017 and has a broad portfolio of assets, such as the Drake East Antimony-Gold Project in north-eastern NSW and George Project prospective for silica sand and uranium.

Source:  
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