

THE DOMINION AND FEDERATION DISCOVERIES AT NYMAGEE, NSW

The Dominion and Federation prospects are located fifteen kilometres south of the historic mining town of Nymagee and ten kilometres south-southeast of Aurelia Metals' operating Hera Mine in central western New South Wales. Aurelia (ASX:AMI) discovered significant supergene and sulphide base metal and gold mineralisation at the Dominion prospect in September 2018, and strong zinc-lead sulphide mineralisation was intercepted at the Federation prospect, one kilometre to the northwest, in April 2019.

Mineralisation in the area occurs near the eastern edge of the Palaeozoic Cobar Basin, hosted in folded sandstones and siltstones of the Mouramba and Amphitheatre Groups. The prospects also occur close to the non-conformable contact with the Silurian Erimeran granite to the south. Mineralisation has a strong structural control, with sulphides occurring as steep vein/breccia zones, often with intense chlorite alteration and silicification.

From 2010 to 2014 YTC Resources identified strong geochemical anomalism in the area and completed more than 2,700 metres of reverse circulation (RC) and diamond drilling at both prospects. While minor sulphide occurrences were identified in a number of holes, no significant mineralisation was intercepted at the time.

In mid-2018 Aurelia identified a small outcrop of gossan close to the previous drilling showing significant visible gold. Initial follow-up included RC drilling, with all fifteen holes returning varying intercepts of mostly supergene copper and lead-zinc mineralisation, with accessory silver and gold.

Following on from the initial positive results, Aurelia completed a 25.7 line-kilometre pole-dipole induced polarisation (IP) geophysical survey over the Dominion and Federation areas. A discrete chargeability and conductivity feature was modelled at Federation, which was followed up with eight RC drill holes. Six of the initial eight holes drilled returned high grade intercepts of zinc and lead mineralisation with accessory gold, copper and silver.

Since that time AMI has completed more than 35,000 metres of drilling, defining a significant mineral system extending from near surface to at least 550 metres vertically. An important feature of the deposit is the presence of broad zones of massive and semi-massive mineralisation, often exceeding 40 to 50% Pb+Zn. High grade gold mineralisation has also recently been discovered at the deposit. A maiden Mineral Resource Estimate of 2.6 million tonnes at 7.7% Pb, 13.5% Zn, 0.8g/t Au & 9g/t Ag was reported in June 2020. A Scoping Study, to evaluate project development options, has also recently commenced with processing through the existing plant at the Hera Mine anticipated.



Federation drill core with very coarse-grained gold to 4mm (circled) associated with massive low-iron sphalerite (light brown), galena (metallic grey) and quartz (white) from FDD085. This sample is a part of a one metre interval grading 59.5% Pb+Zn and 137g/t Au.