

This was my first go at finding a viable gravity-only route from a coastal river to the inland catchments. Gravity-feed is so important for keeping the cost of the water down. In this case, it flows into the Cooper Creek in the Galilee Basin that feeds into Lake Eyre from the Burdekin River at Hell's Gate. This route goes via Lake Bradfield, currently a salt lake, which could serve as a temporary storage (about 14,000GL) and feed east to Adani Mine or other parts of the Bowen Basin, south to Lake Galilee and west to Murrumbidgee.

Soon I will get an actual route from Leon. I used <http://plotaroute.com> to develop a kml file of the route line, opened the kml file in Google Earth Pro (free) and captured the video with Fraps (Pro).

Note that Leon's design is an integrated pipeline and levy. The levy would pick up fairly substantial flows along the way from the Cape River and the Campaspe River as well before it goes around the Thalanga Mine or Campaspe to head north up to the Basalt River. It gets a bit rough from there to Hell's Gates and would need careful route planning, but even if it stops short at the Basalt River, Leon estimates it could catch and deliver maybe 2,000 - 3,000 GL or so per year to Aramac & Adani within 12 months. It then can later be connected to Hell's Gate and deliver an extra 8,000 GL or so, then with the Herbert and Tully rivers add in another 3,000 GL or so.

The agricultural production alone from the irrigation of 2,000 km<sup>2</sup> of land around Aramac and Murrumbidgee could be about \$2 billion in produce per year. This plan has the benefits of lower cost (~\$8 billion), and staged implementation without requiring the building of Hell's Gate Dam.