

#2 Advice from Robert Golec, Principal Occupational Hygienist

"I have reviewed the final analysis results for samples taken on 24/2/2014 (ALS Report Number 420189). I have previously reviewed the results for the Hara Dam water and the additional result include the "floatable" portion of the Hara Dam sample (sample 03040/8 (floatable)).

The metals analysis results for the floatable portion of this water sample showed detectable concentrations of some metal species including aluminium, barium, boron, iron, mercury and manganese, iron, strontium, tellurium, titanium and zinc. The main metals of interest in terms of potential exposure based on toxicity are arsenic, cadmium, lead and mercury based on their toxicity. The levels of these metals in the Hara Dam floatable portion were:

Arsenic - <5 mg/kg

Cadmium - <0.2 mg/kg

Lead - <5 mg/kg

Mercury – 0.28 mg/kg

Based on the above results for these metals, it is considered that the potential for exposure to fire fighters from all routes of exposure (inhalation, skin and ingestion) is negligible. It is therefore concluded that no significant risk exists from contact to the floatable solids or from the water (previously reviewed) as sampled on 24th February, 2012."

Robert Golec

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