

30 October 2017

Kate Masters
Senior Planning Officer, Waste
Industry Assessments
Department of Planning & Environment
GPO Box 39
SYDNEY NSW 2001

Contact: *James Caddey*
Telephone: *48243401*
Our ref: *D2017/127461*

Dear Ms Masters

Modification to Woodlawn Bioreactor Expansion Project (Major Project 10_0012 MOD2 and DA 30-02-99 MOD3)

I refer to the applicant's response to submissions relating to the above modification received on 11 October 2017. Water NSW has reviewed the documents available on the Department's website and offers the following comments for consideration.

The subject land is partly located inside the Wollondilly sub-catchment which forms part of Sydney's water supply. The area labelled Evaporation Dam 1 (ED1) in Figure 1.2 of the application document is totally located within the Sydney Drinking Water Catchment. The areas labelled Evaporation Dam 3 (South) and Evaporation Dam 2 are partly located within the Sydney Drinking Water Catchment.

WaterNSW notes that Veolia has withdrawn the proposal to temporarily store current leachate from the landfill in Evaporation Dam 1 (ED1). Additional evaporation techniques are proposed to be used on existing leachate storage dams. Further, it is now proposed to construct separate coffer dams in ED1 to store the treated leachate from the membrane bioreactor (MBR) and the coffer dams are suggested to be lined with HDPE liner. Treated leachate from the MBR and mine wastewater is proposed to be kept separated.

However WaterNSW notes the following inconsistencies and issues in the application documents:

- the submission response states on a number of occasions that the coffer dams will be lined with an HDPE liner, where in the actual amendment an HDPE liner is the third option
- modelling shows that if the mine does not go ahead the proposed coffer dam will have to be
 - 1.5 times the size (225ML) if evaporators are used
 - 3 times the size (450ML) to last the intended time frame of 4 years
- using evaporators on the mine water currently in ED1 in an attempt to decrease the volume being held. This is not part of the Modification. However the use of evaporators would increase the concentration of heavy metals in the remaining mine water.

Water NSW requests that Condition 18A or 18B of the existing consent be modified to include the following:

- the proposed coffer dams in ED1 shall be lined with HDPE liner as recommended in the AECOM Report (dated May 2017)
- treated leachate from the membrane bioreactor shall be stored in the proposed lined coffer dams in ED1

- treated leachate from the membrane bioreactor shall not be mixed with mine wastewater currently stored in ED1.

If you wish to discuss this matter further please contact Jim Caddey on 4824 3401.

A handwritten signature in black ink that reads "Malcolm Hughes". The signature is written in a cursive, slightly slanted style.

MALCOLM HUGHES
Manager Catchment Protection