Chapter B4 Surface Water and Erosion

Summary of key findings:

Arundel Creek runs through the airport and some sections of it will be impacted by Melbourne Airport's Third Runway (M3R). A culvert will be constructed to maintain the creek's flows under associated infrastructure.

Water sensitive urban design measures have been incorporated into M3R's design to improve the quality of water discharging into Arundel Creek and from the airport estate.

Modelling has demonstrated that the proposed treatment train will effectively remove the increased pollutants generated by the project.

Infilling of the parts of the Arundel Creek valley and the addition of culverts will result in minor flood level increases on the culvert's upstream side within the airport. However, modelling shows this will not impact land downstream from the airport.

Mitigation of PFAS impacts in surface water, and appropriate controls, will be outlined in the proposed PFAS Management Strategy. The strategy will incorporate a whole-of-project approach to PFAS management, from source management to mitigation of surface water impacts discharging off-site.

Mitigation measures will be incorporated into the Construction Environmental Management Plan in order to protect waterways and minimise erosion.