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Measurements of evaporation from a mine void lake and testing of modelling approaches

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ACCEPTED MANUSCRIPT

- 1 Measurements of evaporation from a mine void lake and testing of modelling 2 approaches 3 David McJannet¹, Aaron Hawdon², Tom Van Niel³, Dave Boadle², Brett Baker², Mike 4 Trefry³, Iain Rea⁴ 5 6 ¹CSIRO Land and Water, EcoSciences Precinct, Dutton Park, QLD, Australia 7 ²CSIRO Land and Water, ATSIP, James Cook University, Townsville, QLD, Australia 8 ³CSIRO Land and Water, Floreat, WA, Australia 9 ⁴BHPB Iron Ore Pty Ltd, Perth 10 11 Corresponding author: David McJannet, CSIRO Land and Water, GPO Box 2583, 12 Brisbane, QLD, Australia, 4001, David.McJannet@csiro.au 13 14 Key words 15 Evaporation, pit lake, evaporation pan, mine void, model, measurements 16 17 **Summary** 18 Pit lakes often form in the void that remains after open cut mining operations cease. As pit 19
- 20 lakes fill, hydrological and geochemical processes interact and these need to be understood
- 21 for appropriate management actions to be implemented. Evaporation is important in the

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