

14 July 2017

Yolanda Burt
Transport and Infrastructure Policy
Planning and Environment Department
Sunshine Coast Council

Email: Yolanda.burt@sunshinecoast.qld.gov.au

**MONTHLY GROUNDWATER MONITORING – INFILTRATION BASIN
EARNSHAW STREET, GOLDEN BEACH**

Dear Yolanda,

Core Consultants Pty Ltd (Core) is pleased to present the results of the fourteenth round of monthly groundwater level monitoring at the above site. Groundwater levels are continually monitored via a Level TROLL installed in the groundwater monitoring well within the infiltration basin.

The fourteenth round of data download was undertaken on 1 June 2017 and the raw data was then processed to develop hydrographs depicting groundwater level fluctuations against tidal movements and rainfall events for the past month.

The hydrograph results generally indicate that groundwater levels within the infiltration basin are now consistently above the ground surface level and are predominantly influenced by localised rainfall events with some minor tidal influence also being observed. However, as observed in the April 2017 monitoring round, results from the May 2017 monitoring round again indicate an elevated groundwater level. It appears that the rate at which the water is infiltrating through the basin has decreased significantly and wetland vegetation has begun to establish itself within the basin.

The hydrographs, showing comparisons of groundwater level fluctuations against tidal ranges and rainfall, are attached.

Your attention is drawn to the document Limitations, which is attached to this letter. Should you require any further information, please contact the under signed on (07) 5475 5900.

Yours sincerely,

CORE CONSULTANTS PTY LTD



Samuel Rouse BSc(Env Science)
Environmental Scientist

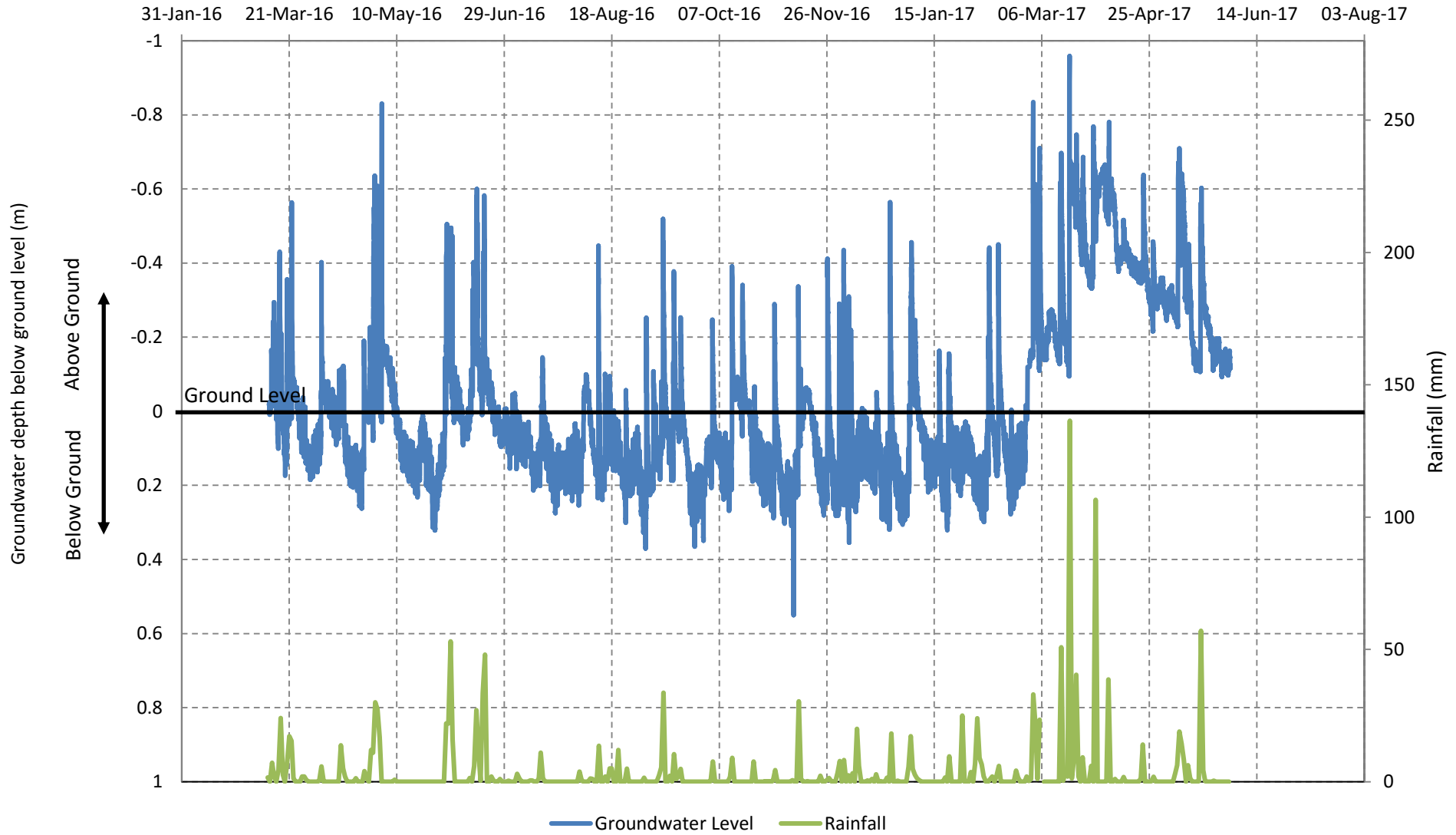


Josh Mitchell BSc(Env Science) MEIANZ CEnvP CPSS2
Associate/Senior Environmental Scientist

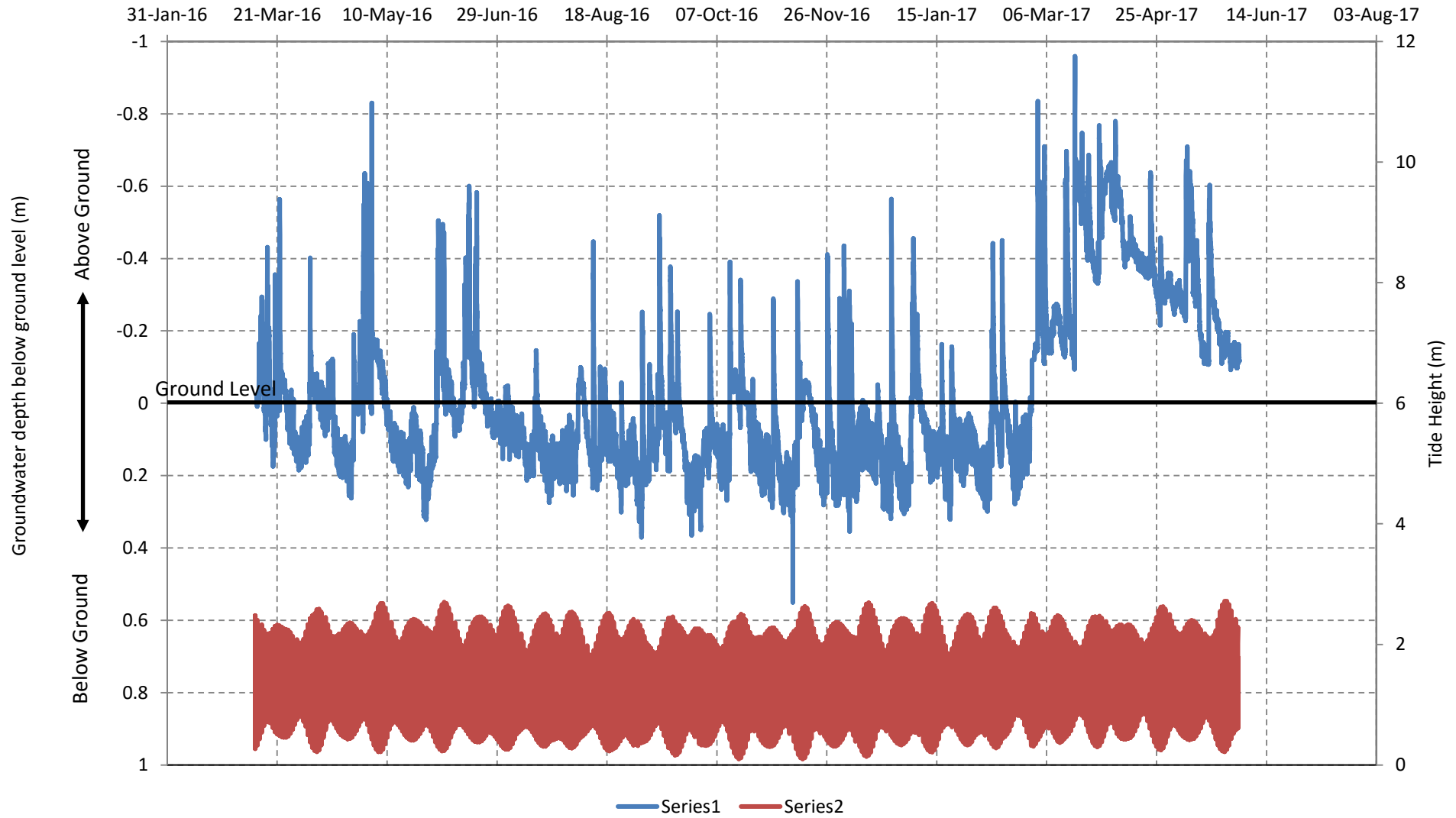
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Attachments: Hydrographs
Limitations

Hydrograph for Infiltration Basin (Rainfall)



Hydrograph for Infiltration Basin (Tidal)



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