

CASE STUDY

Deep Groundwater and Dissolved Gas Sampling using Dedicated Double Valve Pumps and customized Dissolved Gas Separator

Quick Facts

Client: Jacobs Group Australia Pty Ltd
Location: Gippsland and Otway regions, VIC

Date: 2014-2015
Ref: HT 15-5667

Products: Dedicated Double Valve Pumps, Customized Well Caps, Dissolved Gas Separator
Services: Deep Groundwater Sampling, Dissolved Gas Sampling

Assignment

- HydroTerra were engaged by Jacobs to assist with a baseline study of groundwater and dissolved gas conditions in the Gippsland and Otway regions in Victoria. Some samples required collection from over 1000m below surface so a suitable methodology was required to be developed. 3 rounds of sampling was needed from the Gippsland region while 1 round of samples collected from the Otway region.

HydroTerra Solution

- Involved in the development of an SOP for the collection of the samples
- Dedication of double valve low flow pumps,
- Custom construction of groundwater/ air partitioning system (Dissolved Gas Separator)
- Suma canister sampling of partitioned samples and back calculation of total dissolved gas composition and standard groundwater quality parameters. Maximum depth of groundwater sampling was 1,100m below surface.

