

**{In Archive} Groundwater monitoring data**

Bava Sathan to Laura Gibbons

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Good afternoon Laura,

**Your Reference: Y/103/18/PL (Central Arun Crematorium) and Y/92/17/OUT (Land east of Drove Lane Yapton)**

Further to previous discussions and planning applications relating to the above two sites, we have now received the preliminary report of the winter groundwater monitoring for both Yapton and Arun Crematorium, together with the additional monitoring results for January and February data for both sites. We have reviewed the information and discussed extensively with our Geotechnical colleagues to appraise of the outcome of the monitoring information and way forward.

You will note that on both sites the highest groundwater level was recorded in December 2018 which corresponds with the weather pattern. The Met office data indicate that the area received 101mm of rainfall in December compared to only 33mm in January. The shallowest recording at Yapton site is 0.34m below ground and 1.02m below ground level at Arun Crematorium site. Reviewing the borehole logs indicate that both sites are underlain by clay at those levels where groundwater has been recorded. The groundwater monitoring contractor is due to go back onsite for undertaking the March monitoring reading. As we have had a rather dry winter, we do not anticipate the water level to rise significantly above what has already been recorded.

Reviewing of the borehole logs for both sites, as mentioned above, there is significant presence of clay formation above the highest groundwater level recorded. We do not anticipate that the upper layers of soil will be productive enough or achieve significant infiltration rates. We do not propose for the basins to be lined to allow for natural infiltration for most of the year to take place and replenish the natural resources. However this will likely lead to some localised water accumulations within the respective basins over the winter months and groundwater is high. Instead of having an overflow system (as previously indicated in the drainage strategies for the respective sites), we would replace this by an actual outfall into the existing watercourses to provide positive discharge at the agreed discharge rate.

We welcome your views and comments on the attached monitoring data and factual reports. Based upon the information and as noted above, we propose not to undertake the scheduled infiltration tests and seek your approval to same. Once you have had a chance to review the information, I would welcome the opportunity to review/discuss those with you over a telephone conversation.

Do not hesitate to contact me if you require any additional information.

Kind regards,

Bava

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Yapton Groundwater Round 3.pdfGL22428A INTERIM Factual Rev0.pdfGL22428B - INTERIM Factual Rev0.pdf



Arun Groundwater Round 3.pdf

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