

**DIG REPORT SHALLOW END INFORMATION - 10<sup>th</sup> March 2023**

1 As discussed during the video conference on 21<sup>st</sup> February, we have excavated a number of trial pits in an effort to trace any leaks. Our findings are summarised on the attached sketch. (*PDF file named Dig Report Shallow End Drawing*)

2 February was a very dry month and the subsoil is clay and chalk mix overlying (we suspect) chalk, which readily absorbs water, so we did not find any excessively wet areas. We did find one small void, which can be seen in pictures 2a and 2c. The depth was approximately 600mm.

3 It may be that one of the problem areas is the joint between the plastic feed pipe from the plant room and the metal feeder pipe to the pool inlets. This seems an appropriate area for one of your trial holes.

4 On closure the pool level was left just below the bottom of the skimmers. Over the following weeks the level dropped until the bottom of the pool inlets were exposed. At this point the level stabilised. The onset of winter rain refilled the pool back to the original level and has maintained that level. We postulate that some sort of siphonic action may be taking place and draining out water until the air seal at the inlets is broken. If we know when your site investigation is taking place we can arrange for the pumps to fill the pool to normal level, purging any air out of the system, so that, if such a system is operating, it may become identifiable.

5 Note the approximately 1m wide concrete slab of varying thickness that appears to surround the pool. We don't know if it is reinforced.

6 We remain sceptical of the benefits of expending resources on testing the pool water tightness, given that the pool level has not fallen below the inlets recently as 4 above and that all of the surrounding pipework, inlets, skimmers and the pool lining itself will be replaced during the renovation works.

7 Finally, it has taken three weeks for us to receive the fee proposal. We would remind everyone that any intrusive works in the pool area must be completed by 9<sup>th</sup> April as we need three weeks to get the pool ready to open at the beginning of May.