

Tomlinson's Dairies – Cold Store Extensions Phases 1 & 2 and BMB Extension Phase 3
Surface Water Phasing v2
Alan Brough Associates

To be read in conjunction with the Flood Risk Assessments for Phase 1 and Phase 2 & 3

We write to provide additional information in respect of the surface water drainage system, and how the operation will be maintained through the construction process.

I attach a draft drawing reference 14150.550 which highlights the diagrammatic drainage proposals during the three phases of construction.

The Phasing of the works is described below and illustrated on the above drawing:

Phase 1

Initially the existing pond and outfall will be retained in position and will be temporarily increased in capacity from 1,068m³ to 1,325m³.

Project period: October 2016 – June 2016

Phase 2

Whilst maintaining the existing system in operation the new below ground cellular attenuation will be formed which will provide a further 770m³ of storage. The existing embankment above the existing lagoon will be reduced to the final levels, this level is compatible with the continued use of the existing lagoon.

A new inlet arrangement will be formed to the north of the existing lagoon. A new outlet pipe will be installed to the south of the existing pond. This outlet pipe will incorporate a temporary length across the new pond location to allow water to be discharged from the cellular storage prior to the construction of the final lagoon.

The surface water flows will be diverted to the new cellular storage. As all of the phase 3 element of hardstanding will not yet be connected the attenuation volume in the cellular storage will cater for all storms in the temporary case.

Project period: November 2016 – November 2017

Phase 3

The new pond to the south of the cellular attenuation will be formed and the original pond infilled; the temporary connection across the pond will be maintained during the construction of the banks.

A new outfall into the pond will be formed. The outfall structure will be completed with the temporary pipe section in place. Once complete the temporary pipe will be removed such that the outflow from the cellular storage runs through the new pond and the attenuation of the new pond is mobilized. This will then provide a total storage capacity of 1,390m³. The new pond will be completed and brought into use at the end of Phase 2 / commencement of

Phase 3 so that it is in place prior to the additional impermeable areas created as part of Phase 3 are completed.

Project period: November 2016 – November 2017