

CASE STUDY

PROJECT OVERVIEW

ATTENUATION POND

Many large housing developments now use attenuation ponds as a method of controlling large volumes of surface water.

This surface water attenuation ponds are normally constructed using traditional methods of excavation and then lined with geo-textile membranes and liners in addition to the importation of clay to form impervious layers in order to retain large volumes of water.

On a recent project the client had no clay available on site and the cost of importing 1000's of cubic metres of suitable material would have been extremely costly and time consuming.

Using stabilisation to modify existing soils we were able to create an impervious material that was used in lieu of clay.

CHALLENGES

We were approached by a client to see if we could modify existing soils on site to create an impervious layer to be used in the construction of a large attenuation pond.

A suitable material such as clay was not available on site and importing large quantities to the site was not practical.



SOLUTIONS

By collecting soil samples from site and using innovative laboratory testing we provided a solution.

Using a modified binder and stabilisation methods to the existing soil we created a material that was proved to be an effective alternative to using clay.

BENEFITS

The main benefit of using our method of stabilisation was cost.

By modifying the available soil on site meant that no material was needed to be imported.

Not only did this mean large savings on materials and transport but also dramatically reduced the potential environmental impact of importing large volumes of material to site.

Money saved, time saved, environmental impact reduced.



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