

www.stormharvester.com



StormHarvester

Ponds, Lakes and Reservoirs.

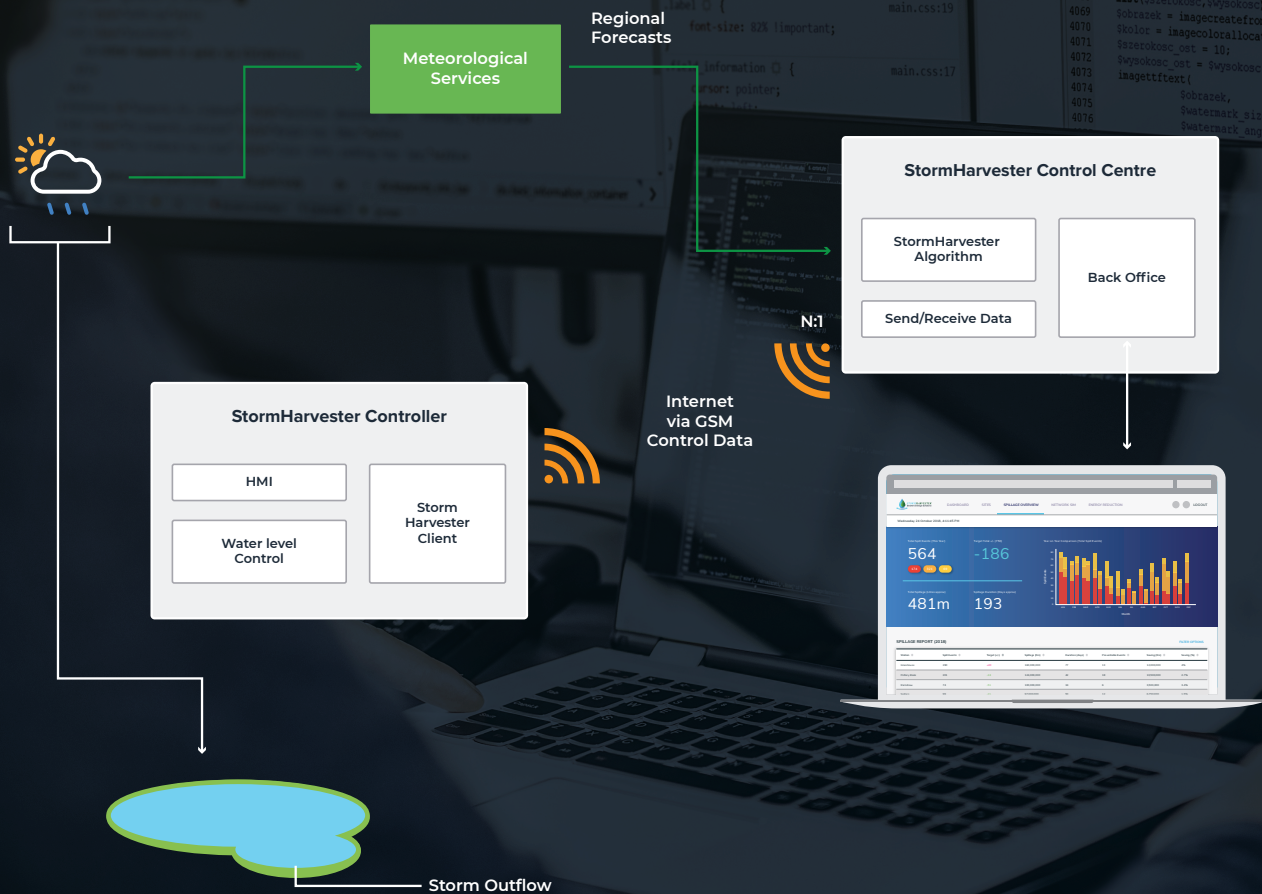
Reduce Flood Risk, increase Environmental Benefits
and Improve Amenity Value of Ponds, Lakes and Reservoirs.



StormHarvester

Our Technology.

The StormHarvester system controls water levels within ponds, lakes or reservoirs by linking a valve, pumps or flood gates directly to a highly accurate rainfall runoff prediction algorithm.



Contact Us

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StormHarvester

Ponds, Lakes and Reservoirs.

StormHarvester's technology can be used to actively or pre-emptively control and optimise water levels within ponds, lakes and reservoirs. Controlling water levels in this way can provide significant flood reduction while at the same time improving amenity and environmental benefits.

The StormHarvester software can be deployed in different ways to achieve different objectives. Two applications of this are outlined in the following sections:



Flood Prevention.

Reduce the flood risk surrounding and downstream of ponds, lakes and reservoirs.



Keeping Water in Ponds.

Improve environmental benefits and public amenity value by holding water in attenuation ponds and lakes.

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Ponds, Lakes and Reservoirs Flood Prevention.

Reduce the Flood Risk surrounding and downstream of Ponds, Lakes and Reservoirs.

Ever wonder why flood prevention infrastructure only begins to work after heavy rain has begun to fall?

StormHarvester is not like traditional flood prevention infrastructure in this way. StormHarvester starts to work the minute a flood is predicted.

Once heavy rainfall is predicted, StormHarvester lowers the levels of water within the reservoir, lake or pond therefore ensuring that when the rain arrives there is additional capacity available within the reservoir, lake or pond to capture the rainfall runoff.



Benefits.



Reduce flooding and reservoir overflows



Reduced cost to enlarge ponds, lakes and reservoirs



Increase effective volume (flood preventing volume of ponds, lakes and reservoirs



Minimise downstream impacts within stormwater networks

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Ponds, Lakes and Reservoirs

Keep Water in Ponds.

Improve Environmental Benefits and Public Amenity Value by holding water in Attenuation Ponds and Lakes.

Flood attenuation ponds and lakes (structures) are typically designed to remain empty around 99% of the time in anticipation of heavy rain.

StormHarvester can completely change this and allows these ponds and lakes to remain full or partially full of water between heavy rainfall events therefore providing significant amenity, environmental and flooding benefits.



Benefits.



Increased settlement time in ponds



Improved amenity value of the ponds/lake



Reduced discharge from pond in wet weather conditions

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Ponds, Lakes and Reservoirs Failsafe Systems.



BATTERY BACK UP IN POWER FAILURE SCENARIO

Both the valve and the site controller have built in rechargeable battery backup packs to allow the system to continue working in the event of power failure. The system can operate satisfactorily for several days without power. Once the power is reconnected the system will automatically recharge the batteries.



SYSTEM IDENTIFIES AND AUTOMATICALLY REACTS IN COMS FAILURE SCENARIO

The StormHarvester “controller” and “control centre” carry out system handshakes at 5-minute intervals ensuring that any loss in communications are quickly and automatically detected.



AUTOMATICALLY DETECTS VALVE BLOCKAGES

The system automatically identifies partial and complete valve blockages and automatically alerts the owner of the infrastructure.



AUTOMATED WARNING SYSTEM

Emails and SMS messages are automatically sent to pre-programmed phones and email addresses in the event of any failure, blockage or flood warning scenarios.



Hillsborough
Castle and
Gardens

Case Study

Hillsborough Castle, Northern Ireland.

Hillsborough Castle is the official residence of the British Royal Family in Northern Ireland and has been the residence of the Secretary of State since the 1970s. The Castle was built in the 1770s and is set on 96 acres of ornamental grounds. The Castle and grounds have recently undergone a £24 million restoration that has seen the Castle open its gates to the public as one of Northern Ireland's leading visitor attractions.

StormHarvester's technology has been deployed within the site's attenuation pond to ensure the pond provides flood resilience to downstream properties while at the same time allowing the pond to remain full of water between flood events and therefore contribute to the aesthetics of the ornamental gardens on-site.

Prior to StormHarvester's involvement on the project our client feared that the aesthetic of a large empty and often muddy attenuation pond would take from the overall aesthetics sought through the restoration works. By allowing the pond to remain full or partially full of water this fear has been allayed.

By holding water in the pond in this way it has been possible to significantly reduce the quantity of suspended solids discharged off the estate. The pond is now acting as a large settlement basin increasing the settlement time of suspended solids on site by 98%.



Water Level
Measurement
ULTRASONIC

Water Level Control
VALVE

98%

increase in
settlement time of
suspended solids
on site.



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STORMHARVESTER
Smarter Drainage Solutions



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