



Americold | Versacold

Rainwater harvesting solution

VersaCold is a leading global provider of logistics services for temperature-sensitive products and one of the top public refrigerated warehouse operators in the world. VersaCold were acquired by Americold, whose core business is connecting Producers and Retailers to Customers and Consumers.

This water recycling system, including a siphonic downpipe system, was required due to the company's high water consumption by their refrigeration cooling towers and increasing public demands for water efficiency.

-  Murarrie, Queensland
-  Advisory services, design, construction

Project scope

Wiley was engaged to design and construct a rainwater harvesting system solution, as part of the design and construction of a new cold storage facility which would allow Versacold to service their major supermarket customers.

Site constraints meant that an overhead pipe gantry had to be built for the supply pipes to the tanks.

Limited site space also meant there was no delivery space for the tanks, therefore, they had to be delivered and constructed directly under high-voltage electricity lines. To address these challenges, Wiley introduced fourteen 48,000L tanks and a siphonic drainage system.

Business value to client

The new rainwater harvesting system allows Versacold to recycle 690,000L from the rooftop, at a rate of 60-70,000L consumption a day in the refrigeration condensers, giving them approximately 10 - 12 days of water supply.

The water harvesting project saves up to 35% of the total water consumed on site, significantly reducing ongoing operational costs.

The siphonic system operates at full capacity when water is sucked or syphoned from the roof down into the drain at higher velocities than a conventional gravity system.

With Wiley's experience and knowledge on water management solutions, VersaCold now have a more environmentally friendly and efficient process to operate their refrigeration systems.



Complex services



Live environment



Sustainable project



Future focused

