



Dam good WATER QUALITY

Main Use

Safe Dam Feed Water

Product

Coagulation
Media filtration
Ion exchange
Disinfection

Customer

Department of Jobs, Precincts and Regions

Location

Ellinbank, West Gippsland, Victoria, Australia

ACQUA by Davey in dairy industry research spotlight

As part of a capital upgrade program to water supply, that included addressing water quality issues such as micro-organisms, sediment and iron, the Department of Jobs, Precincts and Regions Ellinbank, home to Agriculture Victoria's Ellinbank SmartFarm in West Gippsland, Victoria have tapped into Davey's latest water treatment technology.

Agriculture Victoria, who have been undertaking research at the Ellinbank site since the 1950's, have recently commissioned a Davey water treatment system that includes two separate UV systems, two separate rainwater tanks for human consumption, along with a Davey pump set on the dam. This water treatment system is managed by a HALO* Cloud based operating system.

"We've not taken a whole farm approach in a research facility setting before," says Andrew Rathjen, BDM Water Treatment Solutions at ACQUA by Davey. "It's so publicly accessible and having industry involvement in the project has been a really positive thing. The purpose of the system is to help improve animal health and efficiency and provide stable water quality for the whole farm by removing environmental factors and variation in water quality. So far it's delivering good results - we can take clients along to show them how it all works and what our capabilities are."

"Throughout the implementation process we worked with a lot of different stakeholders to address their requirements. The water treatment improvement is definitely the star of the upgrade and it's great to see that Agriculture Victoria are supporting a local manufacturer and local innovation in this way," says Andrew.



At ACQUA by Davey, we understand no two jobs are the same. That's why we have a team of sales engineers and a specialised production department to tailor the system for your needs.



THE ACQUA by Davey SOLUTION

The ACQUA by Davey Solution previously known as Microlene Farm is designed on the principles of animal health, easy to maintain, easy to use and easy to understand. The system uses a combination of proven technologies often used by water authorities to deliver clean water for the farm. This includes coagulation, media filtration, Kinetico Ion exchange and chemical disinfection.

The system is treating dam fed water from ferrosol soil, it is designed to treat 135,000 litres per day.

Key site issues addressed are microorganisms (like algae), turbidity and iron and running on 240/480v power.

BENEFITS

While there are a lot of articles written around the benefits to clean water for dairy animals, this system assists the farm by bringing stability of water supply and water quality consistency. This means that another compounding variable can be removed from scientific results. Stability of scientific experiments of the farm can bring a greater benefit to the dairy industry of Australia.

RESULTS

- Reduced risk for the farm in regard to water supply interruption or inconsistency of water quality.
- Improved animal health from better water quality.
- Overall farm asset protection and increased longevity through the removal of iron and manganese.
- Partnered support and easy monitoring by the HALO, ACQUA by Davey system.
- Flexibility and agility in project delivery around the larger construction milestones of the project.

* The HALO Cloud based operating system is a world-renowned comprehensive software platform that provides administration, protection, data reduction, security and monitoring, with an option to add on the communications hub and connect to other farm monitoring systems. The HALO hub provides continuous monitoring and control of the entire water treatment system, providing fault alerts to allow the user to act on these before they become major problems.

ABOUT ACQUA BY DAVEY

Our solutions and team of experts can treat water for medical and healthcare services, food and beverage, community drinking and wastewater, farming operations and large commercial operations such as hotels and universities.

We know that each water solution need is different and depending on your circumstances and application, will require expert advice. This is where we come in, offering the best treatment solution to suit your needs and provide you with the systems to monitor results and help you adjust when and where you need to.



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