

TasWater Chose to Install EARTHLOK Geosynthetic-Reinforced Concrete Mats at Ridgeway Dam

By GNA Editor

A compelling example of EARTHLOK's GRM effectiveness comes from the Ridgeway Dam project, where it was installed and led to remarkable improvements in water quality and operational efficiency.

For 6-10 years prior to installation, Ridgeway Dam in Tasmania experienced:

- Increased turbidity, especially during extreme weather events
- Higher operational demands to meet Water Quality Guidelines

TasWater chose to install EARTHLOK at Ridgeway Dam due to:

- Ease and speed of installation
- Large coverage area with minimal preparation required of EARTHLOK concrete mats at Ridgeway Dam yielded impressive outcomes:
- 90% decrease in operational demands and changes
- Vastly improved water quality from the dam into the water systems



Jonathan Vaughan, Project Manager – Renewals Program at TasWater has stated:

“During the past 6-10 years and particularly during extreme weather events (Heavy protracted rains and extreme winds) we have experienced an increase in turbidity at Ridgeway Dam. This had resulted in increased operational demands/changes to ensure that we meet Water Quality Guidelines.”

“TasWater chose to install Earthlok at Ridgeway Dam due to the ease and speed of installation combined with the large coverage area it provides with little preparation.”

“Since the installation of the Earthlok we have seen a 90% decrease in operational demands/changes resulting in vastly improved water quality from Ridgeway Dam into our systems.”

Advantages of EARTHLOK

1. Rapid Installation: The ease and speed of installation make EARTHLOK an attractive option for large-scale projects.
2. Minimal Preparation: The mats require little ground preparation, reducing project time and costs.
3. Extensive Coverage: EARTHLOK provides large area coverage, making it suitable for expansive water management projects.
4. Durability: The geosynthetic-reinforced design ensures long-lasting protection against weathering, erosion and environmental stressors.
5. Versatility: Suitable for various water-related structures, from riverbanks to dam embankments.
6. Environmental Compatibility: The low-profile design allows for the preservation of natural surroundings while providing robust protection.

Conclusions

EARTHLOK's geosynthetic-reinforced concrete mats represent a significant advancement in erosion control and water management technology. By combining effective protection with environmental consideration, these mats offer a solution that not only safeguards critical infrastructure but also promotes sustainable water management practices.

The success at Ridgeway Dam demonstrates the potential of EARTHLOK to dramatically improve water quality and operational efficiency in large-scale water projects, making it a valuable tool for water management.