

H-Series® geogrid reduces cross-section while providing the same performance of the original design.



## Springbank Off-stream Reservoir

Rocky View County, Alberta

### CHALLENGE

The Springbank Off-stream Reservoir (SR-1) is a dry reservoir designed to temporarily store flood water and reduce flood risk by managing downstream river flow rates and volume. Reliable performance was a top priority in the design of internal unpaved access roads.

### TENSAR SOLUTION

The original specification called for TriAx TX5 geogrid, selected for its proven ability to deliver consistent and dependable results. However, the higher performing H-Series HX5.5 was installed across all internal unpaved access roads, offering enhanced performance and long-term durability.

The decision to use Tensar geogrid was driven by its track record of reliability, backed by rigorous full-scale testing and validated performance data. This choice ensured that the project benefited from a solution that not only met but exceeded design expectations, reducing long-term maintenance costs and improving structural integrity.

By leveraging Tensar's engineered solutions, the project team was able to reduce the original cross-section from 450mm to 300mm of aggregate and met the original performance standards. The final solution delivered a cost-effective, high-performance roadway system that supports

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#### PROJECT DETAILS

Owner

**Alberta Government**

Engineer

**Stantec**

Contractor

**Vinci Construction**

Product

**Tensar H-series HX 5.5 geogrid**

Distributor

**White Cap**



*H-series geogrid offered a higher performing solution compared to the original TX5 geogrid specification.*

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