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Title

MATFLOW® for Leakage Detection & Gas Venting

Project Name

Al Hefaiya Lake, Kalba City, UAE

Blue Ribbon Text

Real-World Solutions with APEC Geosynthetics

Project Summary

The Al Hefaiyah Lake project, located along the Sharjah-Kalba Road, incorporates robust liner protection system featuring APEC's MATFLEX Geocomposite drainage. Designed to prevent pressure

The Problem

The accumulation of water pressure caused by leakage or gas generation beneath the liner system can lead to the formation of "wholes" and "hippos" – uplift deformations that compromise the integrity

The APEC Solution

Over 150,009 sqm of APEC's MATFLOW Geocomposite drainage is installed beneath the lake liner system to efficiently manage potential leakage and gas accumulation. In the event of liner damage, any

Benefits of APEC Solution

Mitigates the development of whales and hippos in the lake liner system
Ensures effective drainage of infiltrating water and subsurface gas buildup

Project Background

Strategically located along the Sharjah-Kalba Road, Al Hefaiyah Lake spans 132,000 square meters and holds approximately 155 million gallons of water, functioning as a critical water reservoir in the

Consultant

Jacobs

Location

Kalba City, Sharjah United Arab Emirates

Main Function

Drainage Composites

Application Category

Hydraulic Applications

Product

Erosion Control Mat

Keywords

Aliquam, quam, consequ

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Application Overview

Application Overview

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