

GOIL MGO Storage Facility, Takoradi Port, Ghana Vibro Stone Columns (Top Feed Method)



Product Facts

Employer

Ghana Oil Company (GOIL)

Client

Murray & Roberts

Consultant

Greene Consulting Engineers

Quantity

322 No. Vibro Stone Columns
800mm diameter, up to 8m depth

Period of time

October 2015 - November 2015

Franki Africa

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Recent development of the Takoradi Harbour in the western part Ghana created an opportunity for GOIL (Ghana Oil Company) to construct three additional fuel tanks in the port.

The saturated, soft clayey soil conditions, combined with limited space, high water table and tight programme created yet another opportunity for Franki Africa to rise to the challenge with innovative, cost effective solutions.

In these conditions, among others, Vibro Stone Columns are proven to accelerate consolidation settlement up to 90% within 2 weeks, while increasing the cumulative bearing capacity to limit total and differential settlement.

Franki Africa designed and installed 80 No. 800mm diameter Vibro Stone Columns for each of the three massive fuel storage tanks. Subsequently, the efficiency/ effectiveness of the Franki team (and solution) led the client to extend the scope by another 82 No. Stone Columns for their pump station foundation. A total of 322 No. top feed (wet method) Vibro Stone Columns were installed to depths of approximately 8m.

The project was safely and successfully completed with an exceptionally satisfied client.

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