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Carquinez Bridge Foundation

Client:

**State of California
Department of Transportation**

Main contractor:

**Cleveland Bridge California Inc.
FCI Contractors Inc.**

Location:

Between Vallejo and Crocket California

Date:

July 2000 - August 2001



Case study

In 2000 the contract for the new Carquinez Bridge was awarded to the joint venture of FCI contractors and Cleveland Bridge. Each foot of the bridge tower is supported by 6 vertical 3m diameter steel shells infilled with reinforced concrete. Followed by 2,7m diameter drilled shafts in rock. Total average depth 89m of which 43m drilled in rock by under-reaming.

A closed circulation system is used for the cuttings consisting of shakers to remove solids and containers in which the mud can settle.

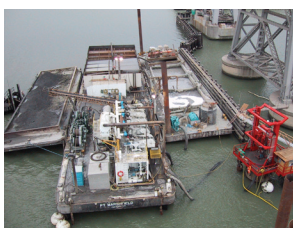
The job was executed with the Wirth PBA928 with hydraulically operating powerswivel of 280kNm and using the reversed airlift drilling principal for soil removal. Drill bits of 2850mm, 2700-3300mm and 2000mm diameter are used. The bottom hole assembly was equipped with steel brushes to clean the shell wall.

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