

SediCon Dredge for El General HPP, Costa Rica

The SediCon Dredge has removed more than 18.000m³ of sand and cohesive sediments.



El General HPP



Sediment discharge



SediCon dredge

Project Description:	40 MW, Run-of-River, commissioned 2006 Annual production of 198GWh, Net head is 246 m and discharge is 18,5 m ³ /s. Hourly peaking reservoir with a total capacity of 225.000m ³ . 2x19.5MW Francis turbines.
Location:	Sarapiquí, Costa Rica 10°12'13.3"N 83°56'05.0"W
Client:	Hidroenergía del General S.R.L.
Sediment Challenge:	As the reservoir is used to produce energy during peak hours, it is subjected to daily drawdowns, causing compaction of the sediments. There's a relatively thin layer of sediments spread over a flat bottom, which makes the dredging more time consuming.
Solution:	SediCon supplied a SediCon Dredge and to increase capacity the motion of the raft was motorized, but still conserving the same concept; a simple and light, but yet a highly efficient dredge using gravity as driving force.
Implementation:	SediCon finished dredging in December 2015.
Results:	The SediCon Dredge removed 18.000m ³ sediments.

SediCon is the leading supplier of sediment handling worldwide and provides reliable solutions with low water consumption and uninterrupted power production.