

SediCon Dredge for Dõna Julia HPP, Costa Rica

The SediCon Dredge has removed more than 60.000m³ coarse and fine sediments, including a large amount of organic debris.



SediCon Dredge at Dõna Julia



Sediments discharged



Sediments at Dõna Julia

- Project Description:** 18,5 MW, Run-of-River power plant
The power plant has a 220.000m³ reservoir for daily storage, of which 40.000m³ is dead storage and 180.000m³ is useful volume.
2x9,3MW Francis turbines
- Location:** Puerto Viejo River, Costa Rica
[10°14'26.6"N 83°58'32.6"W](https://www.google.com/maps/place/10°14'26.6\)
- Client:** O&M Eléctrica Matamoros SA
- Sediment Challenge:** Over the last 12 years 60.000m³ sediments has accumulated in the reservoir. The sediments consist of mainly sand and silt, but also a substantial amount of debris and organic material like grass, twigs and branches.
- Solution:** SediCon supplied a 12" hydrosuction reservoir dredge with efficient water jetting designed for the sediment properties. The outlet is over the spillway; hence no modifications was required to the existing structure. The rounded, soft edges of the suction head, together with the light raft, allows the dredge to operate without damaging the thin PE membrane.
- Implementation:** The dredge was mobilized autumn 2012 and finalized its original scope one year later. The dredge has continued to remove additional incoming sediments beyond what was foreseen in the contract.
- Results:** More than 60.000m³ sediments were removed to the client's satisfaction.

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