Ocean Crusaders' campaign to clean up Moreton Bay has continued, with the removal of more than two tonnes of rubbish from Green Island.

A team of 165 people headed to the island in what Ocean Crusaders founder Ian Thomson described as a "stunning" effort.

The haul included a large pontoon, a fridge and 11 tyres along with thousands of pieces of plastic, stubbies, cans and old shoes.

The clean-up follows a recent similar event at Mud Island, when 2.4 tonne of rubbish was removed.

Every item taken from both islands was sorted and counted by the clean-up team and the data uploaded into the Australian Marine Debris Initiative Database.

Ocean Crusaders volunteers will next remove debris that has been sitting in the mangroves between Nudgee River and Brisbane River since the 2011 floods.

The debris includes a full skip bin, road barriers, a water tank and a massive pile from a wharf.

Ocean Crusaders founder, Ian Thomson, said he had been informed of the rubbish by the founder of Redcliffe Environmental Forum, Geoffrey Redman, who first discovered it in 2013.

"The fact the debris is still there seven years after the floods and that Geoffrey took the council to see the items in 2013 is staggering," he said.