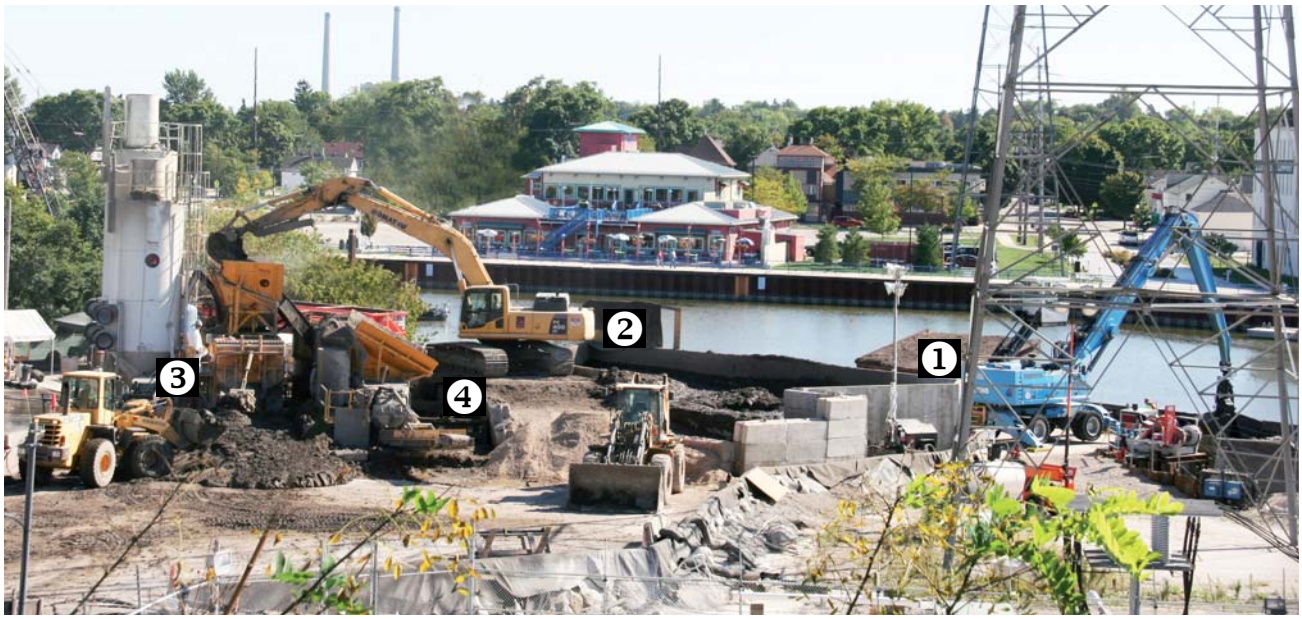
MAXON
INDUSTRIES, INCORPORATED

Maxcretes Process Sediment at Great Lakes Restoration Initiative

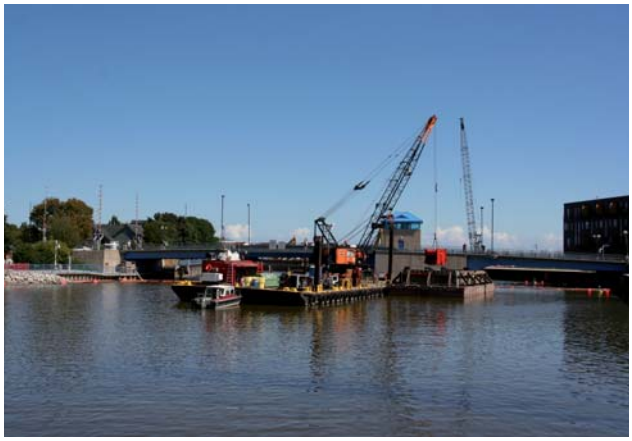
Terra Contracting Sheboygan River Dredging

Job Report

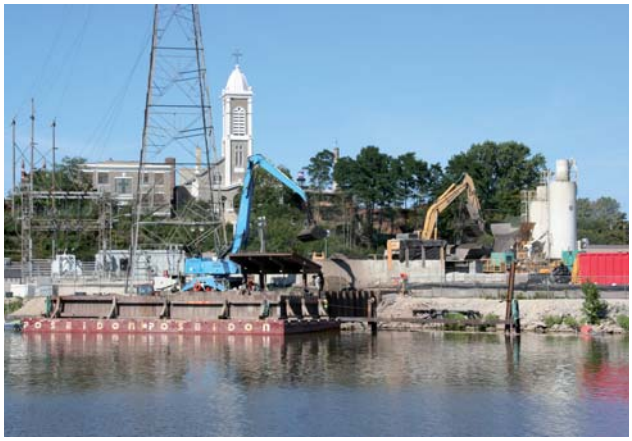
For over 100 years, heavy manufacturing has taken place along the banks of the Sheboygan River in NE Wisconsin. The river, which feeds into Lake Michigan, has been contaminated from years of runoff and discharged PCB's and PAHs resulting in the river being listed as one of 43 Areas of Concern (AOC) on the Great Lakes. In an effort to restore the waterfront and river habitat, the US EPA awarded the joint venture (JV) of Ryba Marine and Terra Contracting the contract to dredge and dispose of 160,000 cubic yards of contaminated sediment. The JV utilized two Maxon Maxcretes to mix/solidify the free liquids and dredged sediments with cement (preventing contaminated leaching when the resulting solidified product was disposed of at landfill). Production rates approached 2,000 cubic yards per day.



Processing Yard: (1) Material handler transfers dredged sediment from the barge to a concrete pad on shore. (2) Hydraulic excavator feeds sediment to one of the two screens mounted above the mixers. (3) Maxon 16 yard Maxcrete and (4) Maxon 10 yard Maxcrete mix dredged sediments with cement from two portable silos. The resulting product is discharged onto the concrete pad and transferred via front end loader to the stockpile area. Up to 2,000 cubic yards of material are solidified each day and hauled to landfill for disposal.



Barge-mounted crane excavator with dredge bucket excavates contaminated sediment from the Sheboygan River. Soils are barged up river to the processing site.



Material handler (at left) transfers sediment from barge to concrete pad on the processing site. Hydraulic excavator (at right) then feeds soils to the grizzly and mixers.

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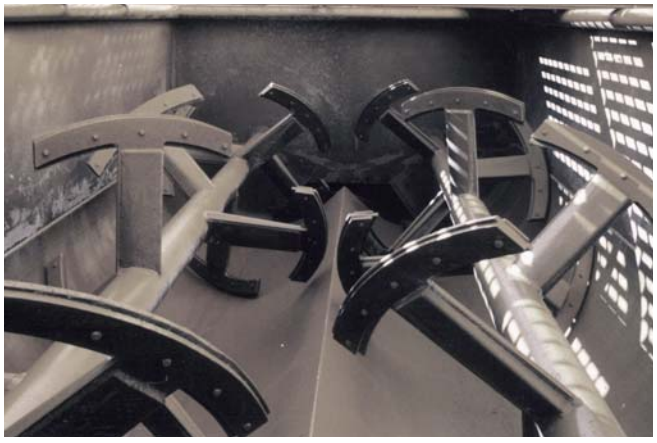
Job Report: Sheboygan River Sediment Processing - Maxcrete

Hydraulic excavator feeds sediment to grizzly screen mounted above the 16 yd Maxcrete. The grizzly prevents large foreign material dredged from the river bed (tree stumps, etc) from entering and stalling the agitator in the Maxcretes.

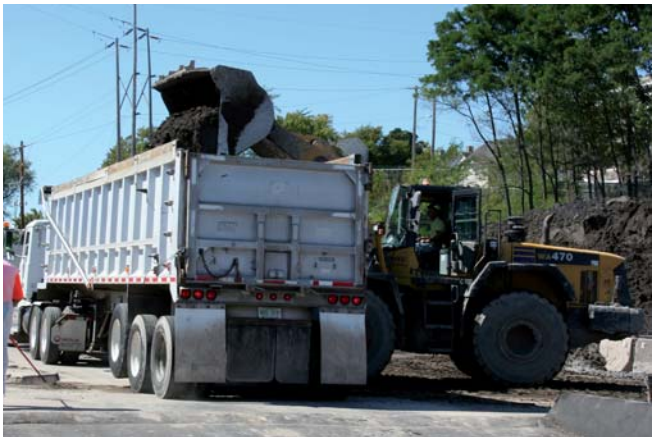
16 cubic yard twin shaft Maxcrete (shown with grizzly mounted above) continuously mixes sediments with portland cement and discharges solidified end product.



Twin agitation shafts inside 16 yard Maxcrete allow continuous processing. The counter rotating shafts increase retention time in the mixer, allowing the Maxcrete to be simultaneously loaded with sediment/cement while discharging a homogenous solidified product.

Large hydraulic gates on both Maxcretes allow for rapid discharge of the end product. Maxon supplied each Maxcrete with a 20' Maxon belt conveyor with hydraulic lift to allow easy stockpiling of solidified product.

After mixing the sediments and cement, the contractor stockpiled the product on site to ensure the portland took up all the free liquid. After a few days, the processed soils had setup and were ready for disposal. At right: a steady stream of trailers around the clock made the trip from the site to the landfill, where the solidified product was disposed.



Between the two Maxon Maxcretes, production rates approached 2,000 cubic yards day. In addition to supplying the mixing equipment, Maxon provided additional field support and crafted a preventative maintenance schedule to maximize uptime. "We made excellent time overall. We worked non-stop and the Maxcretes performed well," remarked Jtannar Wiens of Terra Contracting. "We had a very aggresive schedule and thankfully were able to exceed our projected production rates."

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