CASE STUDY: Debris Management

The Industrial Services Division successfully removed trees and debris from an Oilsands Tailings Pond and shoreline with mobile self-propelled Dredges. The debris was stockpiled onshore, moved to a central location with the use of a lumber skid and subsequently chipped the material for easy transportation. The debris needed to be removed from the pond to enable the entire Tailings Pond to dredged with larger units.

Situational Details:

Pond 8B was established approximately fifteen (15) years ago, leaving the fauna in place or it was bulldozed over. Large trees, branches and debris were inhibiting the dredging process of the tailings ponds which were necessary to remediate and reclaim to meet regulatory requirements.
Our client approached the Dredging Services Team with this complex issue, and our team rose to the challenge.

Innovative Approach to Complex Debris Challenge:

• Evaluated how the Forestry Industry deals with handling of trees and determined refitted shears and grapples would work perfectly for our clients Debris
• Worked in conjunction with Engineers & Welders to refit Forestry Grapples and Shears to attach onto the Amphibex Dredge
• Dredge was trialed at Site, and deemed the grapple/shear enabled dredge was successful and fit for purpose
• Dreding Team commenced the Debris Management Program removing trees from Pond 8B
• Pond was successfully cleaned and the material was chipped for easy transport GFL Environmental used mobile self-propelled Amphibex 400 dredges equipped with specialized attachments to remove the trees from the pond and shoreline to a designated area utilizing grapples, industrial shears and cutting heads to remove the debris. The debris was loaded onto an Amphi-Transport 300 with Dump Box and transported to the shore line. The debris was stockpiled and moved with a lumber skid to a central location and chipped with a Mechanical Chipper.
These Amphibex dredges are specifically designed for large volume pumping and superior excavation depths. The dredges are easily transportable and can self load/unload. These intricately designed machines allow us to exceed expectations for completing jobs with outstanding results while continuing to meet our commitment to health, safety and the environment.

Equipment Utilized:

Horizontal Bucket Suction Dredging Equipment Amphibex Series

The Amphibex AE400E & Amphibex AE600E Series was built with versatility in mind for operations incorporating preventive Ice Breaking, Private and Municipal intakes / outfalls placement and Environmental Restoration & Aquatic plant control.

Amphi-Transport AT300

A wide range of optional equipment (dump, roll on / roll off, conveyors, cranes, etc.). The AT300 Amphi-Transport can be adapted to specific uses. Amphi-Transport AT300 is equipped with four hydraulic articulated anchoring piles that can work in complete stability. The AT300 Amphi-Transport moves at a speed of 5 to 8 knots with powerful hydraulic motors with propellers and can be adapted for specific uses (Optional equipment: dump, roll on/roll off, conveyors, cranes).

Client Feedback:

“ I highly recommend GFL. They have proven to us that not only do they provide excellence within the dredging division, that same core fundamentals of business apply in all other areas of service they offer.”

“ Everything went really good…they were a treat to work with. The experience, knowledge and delivery brought to this project was impressive. Thanks for putting such a strong team together.”

“ Hey Guys – I just wanted to pass on a thank you for all the hard work. Your team did a fantastic job and you should be proud.”