



Breathing New Life Into Your Water Course

Specialists in pond or lake cleaning and refurbishment. Removal, treatment and control of algae, pond and bank weed, silt pumping and dredging.

CASE STUDY— Earth Centre



The Challenge

The Earth Centre was an environmental visitor attraction owned by Doncaster Council. It was created on the 50 acre site of a former colliery in 1999.

The site closed in 2004 and over the following 7 years fell into disrepair, with overgrown lakes, ponds, and blocked inlets and outlets.

In 2011 the site was purchased by Kingswood who planned to rejuvenate it and bring it back to life. Their proposal was a natural continuation of the site's heritage as a centre of learning for children and young people, focused on environmental sustainability.

2 small ponds were to be refurbished as educational ponds and the large lake was to be used for boating and canoeing.

The areas for renovation were difficult to reach due to overgrown vegetation and the terrain, and long reach excavations were not an option due to the lack of access — the removal of a number of trees would have been necessary.

The Solution—Large Lake

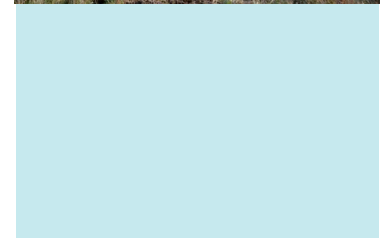
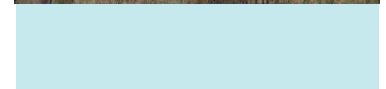
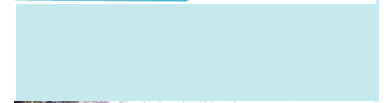
Aquatic Solutions were able to use 2 of their lightweight Truxor DM 5000 amphibious vehicles to gain access, clear the vegetation and clean the pond areas to restore them to their intended condition.

A mini digger was used to create a channel along side the edge of the pond. All of the unwanted vegetation was deposited here, below ground level to naturally decompose. The original soil was replaced leaving the area level and tidy.

An old brick stone channel provides an overflow into the neighbouring River Don. This had become overgrown and blocked. The mini digger was used to scrape out all of the vegetation and soil and repatriate it naturally over the rest of the land.

The two boats were used in tandem with one geared up for excavating and one with the collecting rake attached, enabling them to work efficiently together on sections of the lake.

The excavator attachment on the Truxor was added and the process of digging out bulrush and phragmites to a depth of 2 metres around the entire perimeter of the lake commenced.



CASE STUDY— Earth Centre



All over hanging trees were trimmed with loppers and areas strimmed to clear the site. A small hollow next to the lake was filled with all the unwanted vegetation which will break down naturally and was topped off with soil for good looks.

The Small Ponds

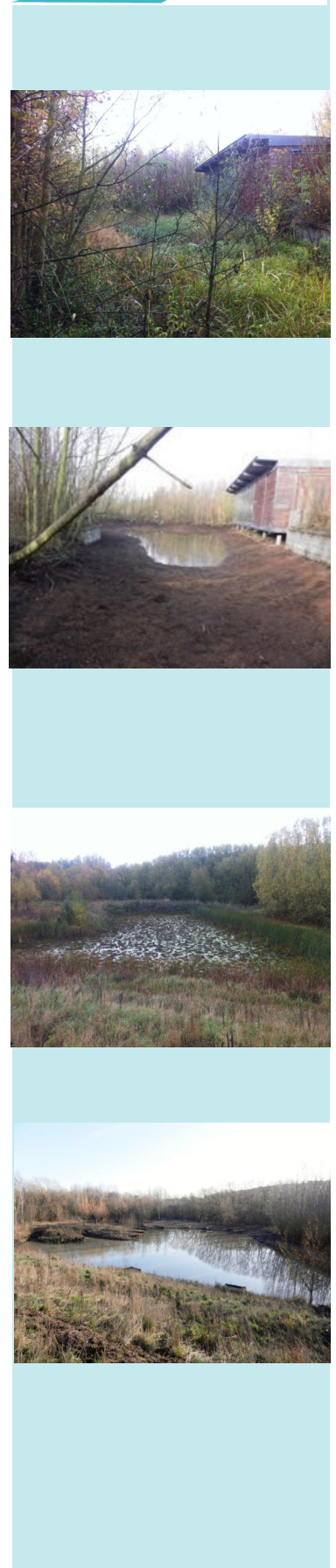
The water had almost dried up in the small ponds due to overgrown vegetation, which was pulled up by the roots using the clamshell attachment on the Truxor. Water was returning to the ponds before we left the site.

The job took just 9 days to complete.

The Result

Kingswood opened the new centre in Spring 2012. The educational ponds have been populated and will be used for pond dipping and wildlife observing.

The lake is clean and ready for the planned leisure activities to take place www.kingswood.co.uk/centres/dearne-valley .



About Us and Our Truxor



The Amphibious Truxor Machine

The Amphibious Truxor machine is an extremely lightweight, manoeuvrable machine capable of working in the tightest and most challenging of aquatic environments. Able to turn on its own axis and weighing less than 1,400 kg it is ideal for SSSI sites, golf courses, stately homes, private properties and public parks. Its ability to work on or off water makes it ideal for a site where public access cannot be limited or where larger terrestrial machines are not suitable. With a wide range of tools available it is ideal for a variety of tasks within the water. The machine is towed by a 4 x 4 on a flatbed trailer and the Truxor can drive itself to the water over the land.

- **Engine:** Daihatsu 35 hp diesel, Environment Class Euro 2
- **Dimensions:** Length 4.7 m, Width 2.06 m, Height 2.1 m
- **Hydraulic oil:** Biodegradable

Attachments Available;

- Cutter Basket
- Large Cutter Bar
- Heavy Duty Cutter
- Collection Rake
- Clamshell Bucket
- Silt & Dredge Pumps
- Excavator



Services Aquatic Solutions UK offer;

- Complete Aquatic Weed Control
- Silt Pumping and Dredging
- Pond and Lake Restoration
- Reed and Bulrush Control
- Water Lily Control
- Algae and Blanketweed Control
- Aeration
- Invasive weed control;
 - Japanese Knotweed
 - Himalayan Balsam
 - Giant Hogweed

Some of our customers



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