

Insitu Chromium VI Stabilisation

Former Use: Disposal lagoons containing Chromium VI
Client: Clyde Gateway
Value: £undisclosed
Location: Glasgow

As part of the ongoing regeneration of the Clyde Gateway area of Glasgow, the Shawfields site posed significant CRVI legacy issues in an area destined to become part of the wider Commonwealth Games Village.

Working to a specification prepared by the clients' consultants, URS, Provectus applied the largest application of in-situ treatment injection equipment ever used in the world.

Over a six month period, Provectus injected nearly 3.1 million litres of calcium polysulphate solution on a site contaminated with chromium VI. Having designed and built a novel injection system driven by 10 separate injection heads and controlled through a bespoke injection unit communicating between themselves across the site using bluetooth, we installed over 8500 points at depths of 20-30 feet. This has never been achieved before.

Achieving average productivity of over 100 points per day, high reliability and low maintenance meant the development site was opened on-time for the start of the Games. The extent and intensity of injection works with this novel technology is unprecedented and a world first.

