

WALTERS

Jubilee Park Remediation, Rogerstone



Project:

Jubilee Park Remediation

Client:

Walters Land (Rogerstone) Ltd.

Value:

£8.3 million

At-a-glance:

- NEC3 ECC Option E
- Principal Contractor
- 120,000m³ of concrete to break out and process.
- Turn and compact to 2m and re-compact to revised earthworks profiles.
- Treatment of contaminated land.
- Soil and water validation and testing.

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Walters is accredited to ISO 9001 for Quality Management, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health & Safety.

Challenges

Jubilee Park covers over 40 Hectares and is the heavily industrialised former site of the Novelis Aluminium Works in Rogerstone, South Wales.

This brown-field site requires geo-environmental and geo-technical remediation prior to the commencement of infrastructure and building construction works. The future development is expected to include 1,200 two or three storey residential properties, a restaurant/hotel, retail area, school and associated playing fields.

Solution

Walters were initially appointed to work closely with the in-house client, their designers Arup and geotechnical consultants Integral Geotechnique, to undertake further site investigations, develop the design and discharge any outstanding planning conditions.

Following site clearance and the treatment of invasive plant species, the site remediation strategy required the breaking out and processing of 125,000m³ of reinforced concrete slabs, foundations and basements to a minimum depth of 2m. In order to ensure a fully remediated site, all made ground beneath the former buildings is to be excavated and re-compacted to a depth of 2m, requiring over 600,000m³ of earthworks to achieve design profiles.

A high water table necessitated the construction of three inlet lagoons and one discharge lagoon so that pumping could take place to lower ground water levels in the work areas. These lagoons were tested and monitored on a daily basis to ensure no contaminated water entered the nearby River Ebbw and wherever possible, any contaminated soils that are encountered are treated on site before being tested and validated as suitable for re-use. Remediation works were being carried out on a phased basis with an infrastructure contract running in parallel.