

LARGE SCALE REMEDIATION & MANAGEMENT OF ASBESTOS IMPACTED SOILS

AT A GLANCE

Client

Blue Chip Utilities Provider

Remediation Value

£500, 000

Site

Derelict former industrial site used as an informal public recreation area, under redevelopment as a regional energy from waste facility with landscaped public open space and multi-use trackways.

Contaminants

Widespread chrysotile asbestos ACM fragments, with locally distributed asbestos fibres in soil matrix.



Typical asbestos recovered from site.



Dust suppression applied whilst working close to a nature conservation area.

CHALLENGES

- 12,000m³ of asbestos impacted soils to manage and treat.
- Elevated site bounded by a busy EfW plant, and by houses, with public access open space and a rail line also bounding.
- Dust and noise had been the source of complaints during previous phases of works.
- Hydrocarbon hotspots co-occurred with asbestos.
- Localised amosite AIB discovered during the works.
- General waste and vegetation removal from soils also needed.
- Earthworks to conform to strict planning requirements and final hard and soft landscaping specifications.
- Ecological features, plus SUDS drainage required protection during the works and enhancement during final landscaping.
- Hard landscape features included a railway maintenance access track and public pathway.

SOLUTIONS

- Extensive pre-works sampling was used to create a 3D site grid and to allocate soils to treatment streams.
- The entire site was zoned to clean and dirty areas, with controlled access and separate plant teams.
- UK Remediation operated the site under a CL:AIRE DoWCoP MMP, with GPS tracking and onsite date entry.
- Treated materials were re-classified and moved to an interim zone for final testing prior to placement.
- Most untreatable material could be retained beneath hard and soft landscaped clean cover layers.
- Untreatable USM material was quarantined for offsite removal.
- Works required a complete reprofiling of the site, including extensive areas for future public access. GPS-enabled plant and light/LIDAR drone surveying achieved tolerances <40mm.
- Mobile and fixed dust and odour suppression was deployed.
- Comprehensive air quality monitoring programme with daily and weekly reporting to regulator agreed action levels.
- Works were completed to a high level of client satisfaction, with no exceedances and without complaints.

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