

# HORSEA ISLAND TRAVERSE DEMOLITION, REMOVAL, REMEDIATION & LANDSCAPING

## AT A GLANCE

### Client

VIVO Defence Services

### Remediation Value

£2,500,000

### Site Overview

Naval base with a defence diving school and fire training facility adjacent to Portsmouth Harbour. The traverse surrounded a magazine building previously used for storage of explosives. The traverse comprised demolition rubble and reworked natural soils known to contain hazardous asbestos and coal-tar-bound asphalt fragments. Scope of works included: site investigation and delineation, demolition of magazine building, removing contaminated material, constructing and landscaping of the final landform. Key practices throughout included management and monitoring of hazards, validation testing, waste management reporting and carbon accounting.



*Winter germination mix showing rapid growth of sward*



*View of magazine building being demolished from the height of the traverse.*



*Hydroseeding in progress (green dye shows where applied)*

## CHALLENGES

- 8,250m<sup>3</sup> of hazardous asbestos and coal tar bound asphalt waste to 10m height, requiring careful management in close proximity to base operations.
- High elevations and steeply sloped material with variable physical quality and previously unconfirmed contaminant distribution.
- Demanding programme required completion before winter due to risks to the adjacent lake.
- Demolition of explosives storage building.
- Working in a high-security environment with active base operations.
- Final landform design under negotiation when works commenced.

*View of traverse with remediation works underway*



## SOLUTIONS

- Detailed project planning to ensure success.
- Careful contaminant discovery and delineation at early stage.
- Detailed earthworks and materials management design to control risks.
- Combined demolition and earthworks programme.
- High volume material movements under line-of-site security.
- Distribution effective to maximise onsite reuse of suitable materials.

## SUCCESSES

- Approximately 50% of materials were remediated at permitted facilities and recovered for restoration purposes, minimising disposal to landfill.
- Remaining ahead of programme despite challenges.
- Construction earthworks and contamination hazards safely controlled throughout with no protocol breaches arising.
- Following validation of the remediated area, the site was landscaped to the client requirements.

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