

Winnington Urban Village

Customer:	Winnington Urban Village Consortium	Value:	£150k
	303 Bridgewater Place, Birchwood WA6 6XF 1 Lumsdale Rd., Stretford, Manchester M32 0UT Morland House, Altrincham Rd., Wilmslow SK9 5NW	Contact:	Tony Sutton Tech Director (DWH) Mark Dawson Director (T/Wimpey) Paul Mossdrop Director (Morris)

Scope of Work

- Stabilisation and Solidification treatment of 3000m³ hazardous levels TPH, ammoniacal nitrogen, cyanides, PAHs and heavy metals

Project Description



Working as part of the Urban Regen Ltd full remediation and demolition contract on the former Brunner Mond Site at Winnington, prior site investigation had identified a significant area of contamination within 20m of an adjacent water course, centred near a historic storage tank.

Post award of the main contract to Urban Regen Ltd., targeted intrusive investigation at the location identified significant volumes of heavily contaminated, heavy end TPH and associated PAH, both within and around the former structure.



Initial reagent trials (4 day tank tests) were undertaken to assess the optimum reagent mix.

Proposed target leachate criteria were agreed with the Environment Agency and the overall site remediation strategy was revised to reflect the use of stabilisation and solidification technology.



A temporary treatment area was prepared on an area of hardstanding, lined with dual gauge visqueen. As part of the overall strategy, water monitoring points were established to assess the risk to groundwater and subsequently the adjacent water course. This was supplemented with monthly surface water monitoring.

Excavation of the contaminated soils was supervised by the site consultants to verify the extent of the removal. The impacted soils were then subject to primary reagent mixing in accordance with the approved deployment documentation, following by secondary mechanical blending.



On completion, initial 4 day accelerated tank tests were undertaken (1 sample per 100m³ for the first 1000m³ and 1 /1000m³ thereafter). Specific target levels were secured.

Confirmatory 64 day tank tests were similarly completed to provide full compliance evidence ensuring regulatory sign off, with all the treated materials subsequently retained on site as engineering fills.