

Environmental Protection Act 1990, section 78h(7) (the 1990 act)

The Contaminated Land (England) Regulations 2006 (si2006/1380) and the Contaminated Land (England)(Amendment) Regulations 2012 (si2012/263)

Remediation statement prepared by Robert Braid, St Francis Group, One High Street, Henley-in-Arden, B95 5AA

This remediation statement is prepared by Robert Braid in relation to contaminated land identified by Redditch Borough Council under s78B of the Environmental Protection Act 1990 (the 1990 Act) and designated as a special site under section 78C of the 1990 Act.

The location and extent of the contaminated land to which this remediation statement relates (the Land) are set out in Schedule 1.

The Environment Agency as enforcing authority in relation to the Land, is precluded by s78H(5)(b) of the 1990 Act from serving a Remediation Notice and Robert Braid has therefore prepared this remediation statement in accordance with s78H(7) and (8).

The things which are expected to be done by way of remediation and the estimated date of completion and the period within which each of these things are expected to be done are set out in Schedule 2.

Particulars of the substances and the significant pollution of controlled waters and significant possibility of significant pollution of controlled waters by reason of which the Land is contaminated land are set out in Schedule 3.

The current use of the Land is demolished and empty, but with proposed future use is commercial development.

The name and address of the person who is expected to do each of the things set out in Schedule 2 to this remediation statement is: DSM Demolition Ltd, Arden House, Arden Rd, Birmingham B8 1DE.

Signed: 

Date: 8/2/16

The enforcing authority's address for the purposes of this remediation statement is: Environment Agency, Sentinel House, 9 Wellington Crescent, Fradley Park, Lichfield WS13 8RR.

Schedule 1

Location and extent of contaminated land to which this remediation statement relates

Schedule 2

Remediation actions and periods (s78H(7)(a) and (c))

Schedule 3

Particulars of significant pollution of controlled waters and significant possibility of significant pollution of controlled waters and particulars of substances

Schedule 1

Location and extent of contaminated land to which this remediation relates can be found at National Grid Reference SP 05790 66180. The area identified as contaminated land is shown outlined in Figure 1 below.

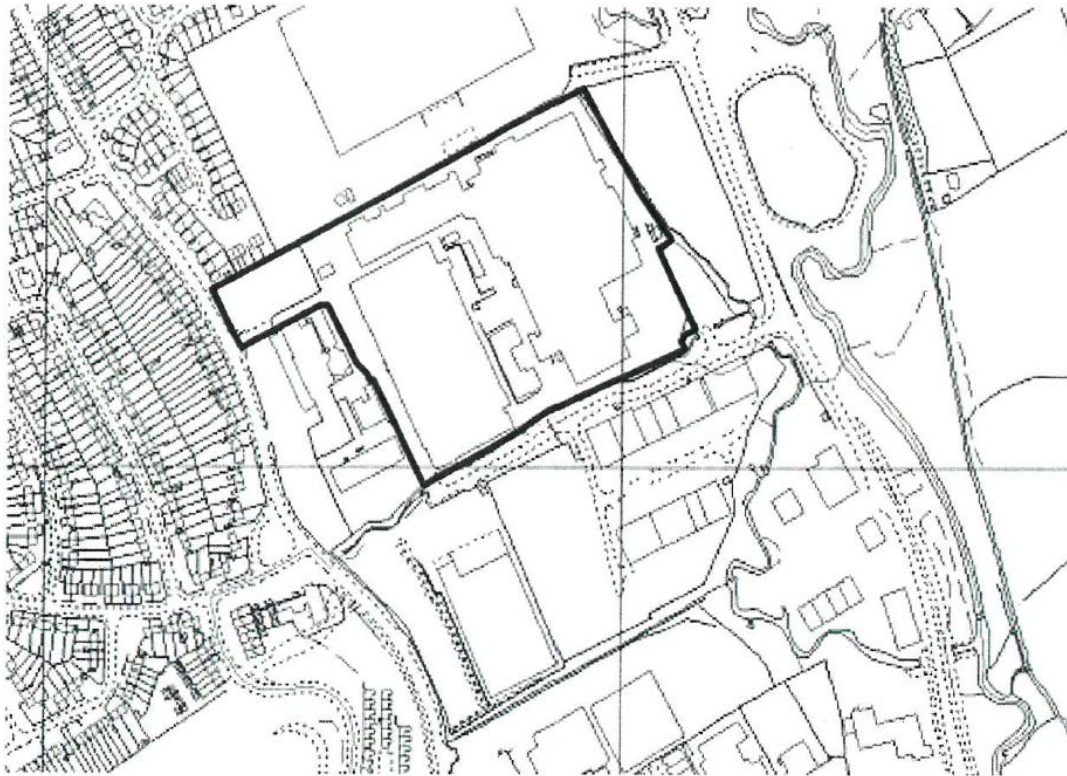


Figure 1 Plan of Area Identified as Contaminated Land

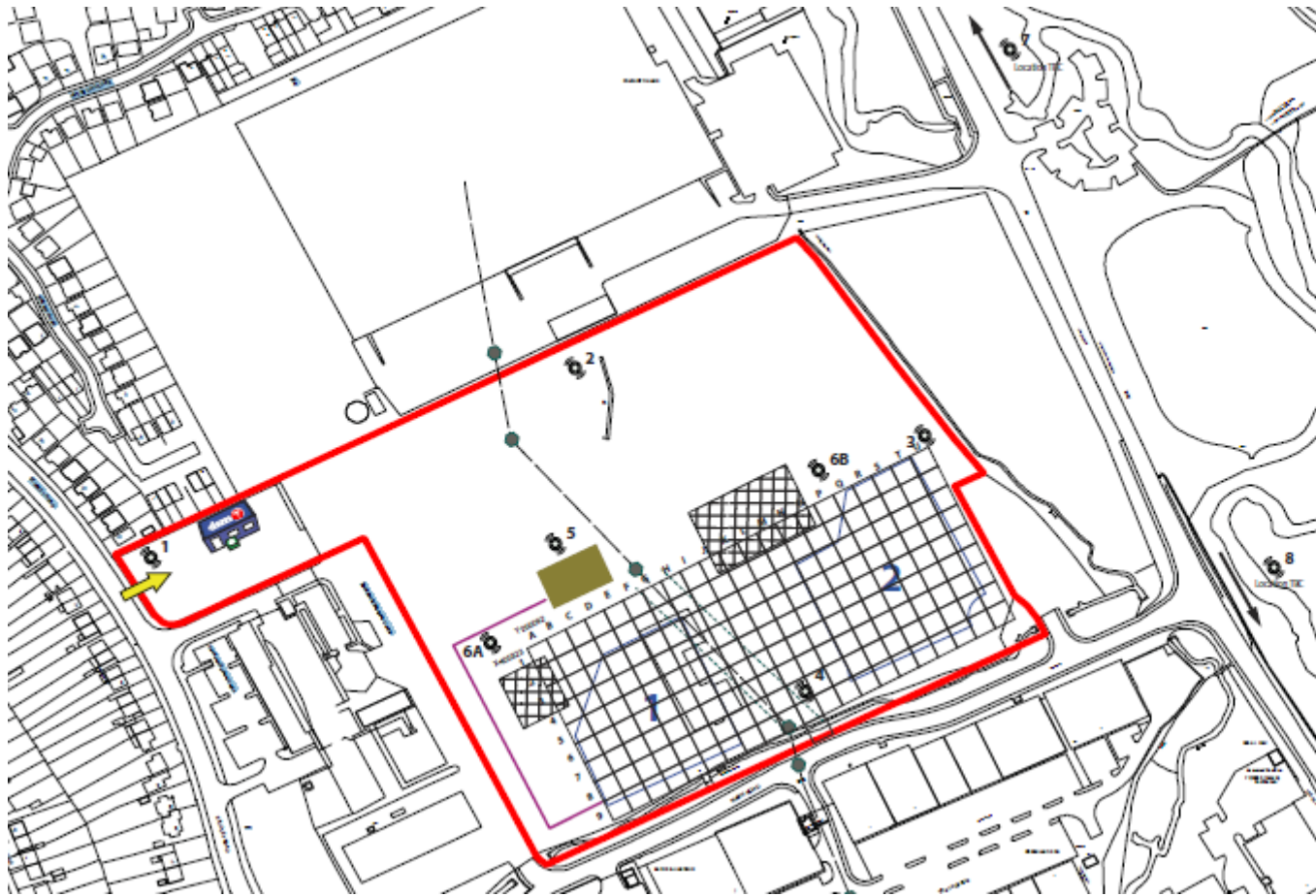


Figure 2 Plan of Areas of Remediation Treatment Actions

Footnote: The extent of the land determined as contaminated land is identified by the red line boundary in Figure 2 above. The areas marked 1 and 2 indicate the two areas where remediation treatment actions documented in this remediation statement will be carried out.

Schedule 2

G&J Geoenvironmental Consultants Ltd, commissioned by St Francis Group, have completed a remediation strategy which provides recommendations on the suitable remediation techniques and the proposed remedial target to significant possibility of significant pollution of controlled waters to acceptable levels. This strategy and the remedial targets therein have been agreed with The Environment Agency.

What is expected to be done by way of remediation

Excavate surface soils down to mudstone with contaminated soils requiring to being treated by bio-remediation until they meet the acceptance criteria of the site (TCE 35mg/kg). The estimated quantity of soil of non-impacted soils to be removed to access impacted materials is 26,500 cubic metres. The estimated quantity of impacted soils to be treated is 11,500 cubic metres. From the excavation, impacted groundwater and encountered free product will be removed and discharged to foul sewer after treating to meet the requirements of the short term water discharge consent. The estimated quantity of water to be pumped and treated is 10,800 cubic metres.

The following remediation treatment actions will be carried out:

Removal of uncontaminated materials – Once the absence of live services has been verified, removal of the existing concrete slabs, tarmac, foundations and redundant service corridors in the delineated remediation areas will commence. Once the concrete is broken out and materials beneath exposed, stripping of uncontaminated surface materials (including any sub-base/capping granular materials) will be undertaken and separately stockpiled for reuse.

Removal of contaminated materials – Once the uncontaminated materials have been removed, the underlying contaminated made ground will be carefully excavated and inspected. The area of the site requiring this remedial treatment action is marked as Area 1 and Area 2 in Figure 2, Schedule 1. Area 1 will be excavated first, followed by Area 2. Any soils suspected of containing contamination in excess of the approved levels will be taken to the soil treatment area. A staged excavation, segregation and screening procedure will allow for careful sorting of the soils into chemically and geotechnically appropriate materials for the on-site treatment.

Bioremediation of contaminated materials – The contaminated soils will be placed in treatment biocells on hardstanding in a bunded area to minimise potential run-off of contaminants onto clean underlying soils. The treatment biocells may have to be routinely turned / aerated and controlled to ensure that the optimum bioremediation rate is occurring.

Perched groundwater treatment – During the removal of underground structures and during soil remediation excavations, any encountered contaminated perched water (and any encountered free product) will be treated via a pump and treat system. Contaminated water / free product will then passed through a water treatment system consisting of oil water separator, sand filter and granular activated carbon prior to discharge to public sewer.

The standard of remediation to be achieved will be validation of TCE source mass removal against the relevant on-site soil remedial target.

The following monitoring actions will be carried out:

Surface water monitoring – The River Arrow will be monitored weekly during the excavation works (12 weeks) to identify if the works result in any impact from contaminants of concern to this surface water.

What is the estimated date of completion

Remediation actions are to commence in July 2016 and the duration is expected to be 52 weeks, therefore completion will be July 2017.

What is the period within which each of these things are expected to be done

The remediation programme involves 12 weeks of excavation followed by 40 weeks of bio-remediation treatment and backfilling of treated soils.

Schedule 3

Particulars of significant pollution of controlled waters and particulars of substances.

Contaminant Linkage	Contaminant	Pathway	Receptor	Description
1	Organohalogens, comprising trichloroethene and break-down products	Subsurface migration of immiscible and dissolved substances to controlled waters	Controlled waters: Groundwater contained in the secondary aquifer beneath the site.	Significant pollution of controlled waters is being caused: substances continuing to enter surface waters
2	Organohalogens, comprising trichloroethene and break-down products	Migration of contaminated groundwater and baseflow discharge directly into the River Arrow	Controlled waters: River Arrow	Significant pollution of controlled waters is being caused: substances continuing to enter surface waters