Network Rail (Huddersfield to Westtown (Dewsbury) Improvements) Order

Condition 5b(iii): Waste Management Plan – Stage 4

Document reference: 151667-TSA-00-TRU-REP-W-EN-001241

Network Rail

June 2023

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Contents

Tables

1. INTRODUCTION

1.1 Background

1.1.1 The Scheme is part of a wider programme of works under the Transpennine Route Upgrade (TRU) which will improve the Transpennine railway between Manchester, Huddersfield, Leeds and York and improve connections between key towns and cities across the north of England.

1.1.2 Planning Direction for the Huddersfield to Westtown (Dewsbury) section of the TRU was received from the Department for Transport, referenced TWA/21/APP/03, dated 13 October 2022.

1.1.3 This Site Waste Management Plan (SWMP) sets out details in relation to Condition 5b(iii) of the Deemed Planning Permission.

2. STAGED APPROACH TO DISCHARGE AND STAGE DESCRIPTION

2.1.1 As set out in document ref: 151667-TSA-00-TRU-REP-W-EN-001189 version 3 (submitted in relation to Condition 3 of the Deemed Planning) a staged approach is proposed in relation to discharge of the deemed planning conditions.

2.1.2 This document sets out details in relation to Stage 4 of the works for the Huddersfield to Westtown (Dewsbury) Scheme.

2.1.3 Stage 4 comprises the main civils works at Huddersfield Station and Huddersfield Viaduct (Stage 4 limits are set as Westgate Overbridge and Hillhouse Lane Underbridge) and are set out in Table 2-1, as well as links to the relevant planning drawings. Figure 1 in Appendix A shows the geographical locations of the works. Route drawings relevant to Stage 4 are NR13 Planning Drawing - Route Drawing 3.pdf (windows.net) and NR13 Planning Drawing - Route Drawing 4.pdf (windows.net).

2.1.4 Works within the Huddersfield and Gledholt tunnels, to the west of the station, will be detailed in the Stage 5 submission.

2.1.5 The entire Scheme will be subject to electrification; details of the electrification works will be detailed in the Stage 5 submission.

2.1.6 At Huddersfield station remodelling works are required with alterations to platforms and roof structures required to facilitate the delivery of a four track railway. East of Huddersfield Station the four-track railway is reinstated across the viaduct.

2.1.7 There are existing earthworks throughout the Scheme area associated with the existing operational railway. Earthworks allow the track to stay relatively level through a varied topography and allows trains to operate more efficiently by reducing the need for additional acceleration and deceleration to climb and descend climbs.

2.1.8 As set out in Figure 2-1[1] in Volume 4 of the Environmental Statement (ES) and Table 2-4 in Chapter 2: Scheme Description (Route Section 1)[2] in Volume 2i of the ES, a 55m length retaining structure (0.5m high) was proposed along the eastern end of Huddersfield Viaduct (MVL3/92) near to Hillhouse Lane Underbridge (MVL3/94). This was proposed as either king post wall or soil nailing. Following design iteration, soil nailing is planned in this area of existing embankment to the south of the railway (E0).

2.1.9 Earthworks (new and where they have been reworked) will generally be covered in topsoil and landscaped as appropriate. Any exceptions to this will be detailed within the Landscape and Ecological Management Plan (LEMP) Stage 8.

2.1.10 The Scheme impacts on various existing transmission and distribution utility networks. Conflicts with utility services may occur in Stage 4 where the Scheme crosses highways and. Works within the highway will be carried out in compliance with the Highways Agreement and any impacts on the highways network will be discussed through the Highway Network Management Group.

[1] Ch02 Scheme Description - Fig 2-1 Scheme drawings.pdf (windows.net)
[2] Ch02 Huddersfield - Scheme Description.pdf (windows.net)

Table 2-1 Works description

Location	Structure/works	Summary description	Deemed Planning Drawing Title and Reference
Huddersfield Station	Passenger Footbridge	A covered footbridge (Huddersfield Station Footbridge (MVL3/91AA), with stairs and a lift, to be constructed to the eastern end of the station. This will provide step free access to the central platforms.	• Footbridge - Proposed Elevations - 151667-TSA-30-MVL3-DRG-T-LP-168053 • Footbridge - Proposed Plan Deck Level - 151667-TSA-30-MVL3-DRG-T-LP-168051 • Footbridge - Proposed General Arrangement Platform Level - 151667-TSA-30-MVL3-DRG-T-LP-168050 • Footbridge - Proposed Roof Level General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168052 • Footbridge - Proposed Sections - 151667-TSA-30- MVL3-DRG-T-LP-168054 • Existing and Proposed Long Sections (A-A) - 151667-TSA-30-MVL3-DRG-T-LP-168003 • Existing and Proposed Long Sections (B-B) - 151667-TSA-30-MVL3-DRG-T-LP-168005
Huddersfield Station	Passenger Subway	Extension to existing Subway (MVL3/91) (of 12.5m) required to service the new island platform to the north of the station.	• Existing Plan and Sections - 151667-TSA-30-MVL3-DRG-T-LP-168064 • Proposed Plan and Section - 151667-TSA-30-MVL3-DRG-T-LP-168065
Huddersfield Station	Parcel Subway (MVL3/91A)	Utilising existing subway for utilities ducting and signalling equipment. Concrete infill.	• Existing Plan and Sections - 151667-TSA-30-MVL3-DRG-T-LP-168067 • Proposed Plan and Section - 151667-TSA-30-MVL3-DRG-T-LP-168068
Huddersfield Station	Tearooms	Existing Tea Rooms - Timber structure to be carefully dismantled and relocated within island platform. To be dismantled and reconstructed.	• Existing Floor Plan and Elevations - 151667-TSA-30-MVL3-DRG-T-LP-168016 • Existing and Proposed Elevations - 151667-TSA-30-MVL3-DRG-T-LP-168015 • Proposed Floor Plan and Elevations - 151667-TSA-30-MVL3-DRG-T-LP-168017
Huddersfield Station	Proposed Platforms	Works to railway lines including provision of new platforms and removal of existing railway sidings.	• Existing Plan - 151667-TSA-30-MVL3-DRG-T-LP-168060 • Existing and Proposed Platform General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168001 • Proposed Plan and Section - 151667-TSA-30-MVL3-DRG-T-LP-168061 • Proposed Plan and Section - 151667-TSA-30-MVL3-DRG-T-LP-168062 • Proposed Plan and Section - 151667-TSA-30-MVL3-DRG-T-LP-168063

Location	Structure/works	Summary description	Deemed Planning Drawing Title and Reference
Huddersfield Station	Canopy A	Works to the main train shed within Huddersfield Station includes: • Structural works to maintain and strengthen; • Demolition of two canopy bays at Manchester end of the station; • Construction of two new bays at Leeds end; • Grit blasting of structure; and • Reinstatement of main train shed lantern.	• Existing and Proposed Roof General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-16800000 • Existing and Proposed Short Sections (A-A) - 151667-TSA-30-MVL3-DRG-T-LP-168002 • Existing and Proposed Short Sections (B-B) - 151667-TSA-30-MVL3-DRG-T-LP-168004 • Existing Roof A Structural Plan (Roof Level) - 151667-TSA-30-MVL3-DRG-T-LP-168010; • Existing Roof A Structural Sections Sheet (1) - 151667-TSA-30-MVL3-DRG-T-LP-168011 • Existing Roof A Structural Sections Sheet (2) - 151667-TSA-30-MVL3-DRG-T-LP-168012; • Existing Roof A OLE Support Details - 151667-TSA-30-MVL3-DRG-T-LP-168013
Huddersfield Station	Canopy B & C	Canopy B&C are to be demolished with new replacements to be constructed to cover platforms to north.	• Existing and Proposed Roof General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168000 • Existing and Proposed Short Sections (A-A) - 151667-TSA-30-MVL3-DRG-T-LP-168002 • Existing and Proposed Short Sections (B-B) - 151667-TSA-30-MVL3-DRG-T-LP-168004 • Proposed Roof B (Shed Roof) Structural Plan (Roof Level) - 151667-TSA-30-MVL3-DRG-T-LP-168020 • Proposed Roof B (Shed Roof) Structural Plan (Platform Level) - 151667-TSA-30-MVL3-DRG-T-LP-168021 • Proposed Roof B (Shed Roof) Structural Sections (1) - 151667-TSA-30-MVL3-DRG-T-LP-168022 • Proposed Roof B (Shed Roof) Structural Sections (2) - 151667-TSA-30-MVL3-DRG-T-LP-168023 • Proposed Roof B (Shed Roof) Structural Sections (3) - 151667-TSA-30-MVL3-DRG-T-LP-168024
Huddersfield Station	Platform free standing canopies	Free standing canopies to be constructed over island platforms to eastern end of station.	• Existing and Proposed Roof General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168000 • Proposed Platform General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168030

Location	Structure/works	Summary description	Deemed Planning Drawing Title and Reference
			• Proposed Platform Canopies Elevation (1) - 151667-TSA-30-MVL3-DRG-T-LP-168034 • Proposed Platform Canopies Elevation (2) - 151667-TSA-30-MVL3-DRG-T-LP-168035 • Proposed Platform Canopies Structural Plan (Platform Level) - 151667-TSA-30-MVL3-DRG-T-LP-168031 • Proposed Platform Canopies Structural Sections - 151667-TSA-30-MVL3-DRG-T-LP-168032 • Proposed Platform Canopies Structural Sections - 151667-TSA-30-MVL3-DRG-T-LP-168033
Huddersfield Station	Canopies – Penistone Line	Extension of Penistone Line canopies.	• Proposed Penistone Line Canopy Platform Level Plan General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168036 • Proposed Platform Penistone Canopies Structural Sections - 151667-TSA-30-MVL3-DRG-T-LP-168037 • Proposed Platform Penistone Canopies Proposed Roof Covering Plans - 151667-TSA-30-MVL3-DRG-T-LP-168038 • Proposed Platform Penistone Canopies Elevation (1) - 151667-TSA-30-MVL3-DRG-T-LP-168039
Huddersfield Station	Relay Room	Existing relay room to be demolished.	• Existing and Proposed Platform General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168001
Huddersfield Station	Drainage Works	Fitzwilliam Street sewer outfall (New) SE 1430 1707. Proposed new storm water drainage outfall for the re-modelled areas of Huddersfield Station. It will be a piped outfall from the drainage system, either directly into the sewer in the highway, or into an existing culvert within Network Rail land which connects into this sewer. A new manhole will be provided at the outfall.	• No relevant planning drawings
Huddersfield Viaduct		Works across Huddersfield Viaduct includes general strengthening	• Existing and Proposed East Elevation (Sheet 1) - 151667-TSA-30-MVL3-

Location	Structure/works	Summary description	Deemed Planning Drawing Title and Reference
(MVL3/92)		works along the length of viaduct together with localised repairs to arches where necessary. These works include pinning and grouting, shear anchors and spandrel strengthening with tie bar and pattress plates.	DRG-T-LP-168075 • Existing and Proposed East Elevation (Sheet 2) - 151667-TSA-30-MVL3-DRG-T-LP-168076 • Existing and Proposed East Elevation (Sheet 3) - 151667-TSA-30-MVL3-DRG-T-LP-168077 • Existing and Proposed East Elevation (Sheet 4) - 151667-TSA-30-MVL3-DRG-T-LP-168078 • Existing and Proposed East Elevation (Sheet 5) - 151667-TSA-30-MVL3-DRG-T-LP-168079 • Existing Plan and Proposed Plan (Sheet 1) - 151667-TSA-30-MVL3-DRG-T-LP-168070 • Existing Plan and Proposed Plan (Sheet 2) - 151667-TSA-30-MVL3-DRG-T-LP-168071 • Existing Plan and Proposed Plan (Sheet 3) - 151667-TSA-30-MVL3-DRG-T-LP-168072 • Existing Plan and Proposed Plan (Sheet 4) - 151667-TSA-30-MVL3-DRG-T-LP-168073 • Existing Plan and Proposed Plan (Sheet 5) - 151667-TSA-30-MVL3-DRG-T-LP-168074 • John William Street Bridge - Existing Highways General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168081 • John William Street Bridge - Proposed Highways General Arrangement - 151667-TSA-30-MVL3-DRG-T-LP-168082
Huddersfield Viaduct	Span 1 – John William Street Underbridge (MVL3/92(2))	The existing Span 1 bridge deck will be removed and replaced with a new single span bridge deck due to the current structural arrangement of the bridge clashing with the proposed track and platform works.	
Huddersfield Viaduct	Span 4 – Fitzwilliam Street Underbridge (MVL3/92(3))	Substructure repairs including removal and reinstatement of the pier to the south-western corner of the structure. Strengthening to cross girders. Removal and replacement of parapet.	
Huddersfield Viaduct	Span 29 Bradford Road Underbridge (MVL3/92(9))	Existing bridge deck to be removed and replaced. Additional masonry pilasters/buttresses will be formed at the corners of the new abutments into which the concrete parapet will join. New concrete abutments to be built with stone facing in front of existing sandstone at both ends and, on both elevations.	

3. RELEVANT PLANNING CONDITION

3.1.1 The wording of Condition 5b(iii) is reproduced as follows:

5.a) No stage of the development (including preliminary works) is to commence until a Code of Construction Practice (CoCP) Part B for that stage, including the relevant plans and programmes referred to in (b) below (which incorporates the means to mitigate the construction impacts identified by the Environmental Statement), has been submitted to and approved in writing by the local planning authority. For the avoidance of doubt this does not include approval for Part A of the CoCP (a general overview and framework of environmental principles and management practice to be applied to the scheme along with all construction-led mitigation identified in the Environmental Statement) which has been submitted as part of the Order.

5.b) Part B of the CoCP (as defined in the Environmental Statement: Volume 3, Appendix 2-1 Code of Construction Practice (Part A), Section 1.2.5) must include the following plans and programmes, for each stage as defined in condition 3:-

iii) A waste management plan;

The development must be implemented in accordance with the approved CoCP and the relevant plans or programmes unless otherwise agreed in writing with the local planning authority shall be implemented in full throughout the period of the works.

***Reason**: To mitigate expected construction impacts arising from the development and to protect local and residential amenity and to ensure the development is carried out in accordance with Kirklees Local Plan policies LP51 and 52.*

4. ROLES AND RESPONSIBILITIES

4.1.1 The Site Environment Manager will be responsible for:

- Maintaining and revising the SWMP;
- All measures in the SWMP are implemented on Site. This includes ensuring that adequate resources are allocated to environmental management on Site;
- Implementing project procedures for waste management, waste minimisation and sustainability; and
- Monitoring and reporting on performance against waste objectives and targets.

5. WASTE MANAGEMENT

5.1 Waste hierarchy

5.1.1 All materials and generated waste will be managed in accordance with the waste hierarchy. The waste hierarchy sets out the options in order of preference (namely prevention, preparing for re-use, recycling, other recovery and disposal as set out in the Waste (England and Wales) Regulations 2011). Every effort will be made to achieve the highest options that are reasonably practicable and compliant with the law.

5.1.2 The most efficient management of materials and waste is usually found in selecting a combination of the following options:

- Efficient resource management to minimise the generation of waste in using selected products;
- Efficient resource management to minimise the generation of excavated wastes and on-site fabrication;
- Re-use of redundant rail infrastructure where possible;
- Re-use and recycle excavated materials and waste in accordance with the Contaminated Land: Applications in Real Environments (CL:AIRE) protocol or some other exemption permit;
- Recycle unusable waste at designated recycling facilities; and
- Dispose of surplus excavated materials and waste at licensed landfill sites.

5.1.3 Whilst some elements are not applicable to the Stage 4 works, the requirements of the waste hierarchy will be enforced where possible, and the duty of care placed on all parties to take responsibility for protecting the interests and safety of others from the potential effects of handling, storing, transporting and depositing of excavated materials and wastes. Waste will be managed in accordance with the Site Waste Management Plan Regulations 2008.

5.2 Duty of Care

TRU West Alliance

5.2.1 The TRU West Alliance, on behalf of Network Rail, shall take all reasonable steps to ensure that:

- All waste from the site will be dealt with in accordance with the waste Duty of Care as set out in Section 34 of the Environmental Protection Act 1990 (as amended) and Defra's Waste Duty of Care Code of Practice (November 2018);
- Greater emphasis is put on the waste hierarchy to ensure that waste is dealt with in the priority order of: prevention; preparing for re-use; recycling; other recovery (for example, energy recovery); disposal, as per the Waste Regulations 2011 (as amended); and
- Materials will be handled efficiently, and waste managed appropriately.

5.2.2 Hazardous waste produced will be disposed of in compliance with the Hazardous Waste (England & Wales) Regulations 2005 (as amended).

5.2.3 There is the potential that works may expose asbestos. Measures will be adopted to manage the risk from the exposure of asbestos which will be in compliance with the Control of Asbestos at Work Regulations 2002.

Waste carriers

5.2.4 As the Scheme progresses and licensed waste carriers are procured, the SWMP will be

updated to include the details and registration information of the selected waste carriers.

Waste management facilities

5.2.5 As the Scheme progresses, permitted waste facilities will be identified and the SWMP will be updated to include the details on waste facilities and quantities of wastes removed from site.

5.2.6 Duty of Care details of waste carriers and waste management facilities should be checked every 12 months to ensure they are still registered with the Environment Agency and are still complying with their license or permit requirements.

5.3 Waste minimisation

5.3.1 In designing the Stage 4 works, consideration will be given to re-use of materials, as opposed to purchasing new materials, where possible. Construction methods and use of materials will also consider and implement opportunities to reduce the amount of waste from the Stage 4 works, to support circular economy principles.

5.3.2 Table 5-1 shows details of waste minimisation measures that will be implemented during the Stage 4 works, where appropriate.

Table 5-1 Waste minimisation measures

Improvement area	Minimisation measures
Excavation	• Track ballast will be reused within the Scheme area where possible (following treatment where necessary). • Excavation will be necessary in relation to the subway extension and construction of the footbridge/lifts. This material will be removed from site for reuse/treatment/disposal, as appropriate.
Minimisation of vegetation clearance at the design phase	• The detailed design stage and proposed construction methods seek to minimise the loss of vegetation on site. Where minimisation is not possible, vegetation will be taken off-site for treatment/composting
Minimisation of contaminated land arisings	• If found to pose no risk to receptors (e.g. groundwater and human health) any contaminated land will be left undisturbed. This approach can minimise potential transport and disposal costs. • Disturbance/removal of ballast will be minimised where possible. If found to pose no risk to receptors (e.g. groundwater and human health), contaminated ballast will be left undisturbed where feasible in line with Network Rail Standard ENV044. This approach can minimise potential transport and disposal costs. • If, as per Network Rail ENV044, ballast is identified as contaminated and cannot be left undisturbed, then it shall be removed from site by rail and processed at a Network Rail receiving centre by Network Rail's Route Services.
Contractor targets	• The Alliance will consider setting off-cut/surplus targets for sub-contractors with a positive incentive scheme for on-site waste champions.
Imported material	• Enabling the purchase of materials in shape/dimension and form that minimises the creation of off-cuts (waste). • Avoiding over-purchasing as this can lead to significant wastage. • Ensuring materials are ordered for delivery shortly before they are used on the Stage 4 works should also avoid possible damage and therefore wastage. • Secure storage to minimise damaged materials/theft. • Keeping deliveries packaged until they are ready to be used and

Improvement area	Minimisation measures
	the inspection of deliveries on arrival helps to reduce damage and wastage.
Use of take back schemes	• Some suppliers offer a take back scheme, which should be utilised where practicable, particularly for packaging and pallets.
Monitoring and review	• Data from waste removal and the periodic review process should be used to assess whether the waste objectives are being met, and if not to review procedures to steer the Stage 4 works towards achieving them. This will require clear responsibilities to be identified, supported with authority and incentives to act on any deviations from the SWMP.
Education and awareness	• Waste minimisation must be underpinned by education and awareness throughout all levels of the project team, from the design team to site contractors who handle the construction materials via site inductions and monthly toolbox talks which all contractors and site workers should be expected to attend.
Consideration of end of life materials	• Consideration should be given to what will happen to the materials specified when they reach the end of their useful life. Where possible, elements should be designed for repair, modular repair, recycling at the end of life or safe disposal. The use of hazardous materials should be minimised. • All materials and components that are no longer required should be offered on to the Surplus App.

5.4 Management of waste

5.4.1 All waste is to be segregated, stored safely and securely in accordance with arrangements identified to prevent harm to human health and environment.

5.4.2 On-site mitigation measures for managing waste include:

- A target 90% minimum recycling and recovery rate target, to be communicated to workers, with a clear understanding of what is expected;
- Deliveries will be organised so materials arrive on-site as they are needed to reduce the possibility of damage and wastage;
- Clearly defined and separated storage and waste areas will be used on-site; and
- Using components that can be prepared off-site to minimise waste generation on-site;
- Training staff to understand how they should sort any waste material and providing regular reminders and updates;
- Recyclable waste will be source segregated. This will be achieved through the provision of clearly marked and/or colour-coded containers to enable easy identification of where waste should be placed during planned/unplanned maintenance;
- Hazardous waste will be source segregated. An area will be set aside for hazardous waste storage which will include appropriate containers, for example Waste Electrical and Electronic Equipment (WEEE) cages; and
- Regular training will be provided, by the site manager, for staff and/or sub-contractors. The training will focus on the practices necessary to minimise waste and to facilitate good practice whilst undertaking litter picking and planned/unplanned maintenance.
- Not over ordering materials and using materials brought to site as efficiently as possible;

5.4.3 Activities will be compliant with Network Rail's NR/L2/ENV/015[3].

Waste streams, storage and management

5.4.4 The waste streams in Table 5-2 are to be segregated for recycling or recovery off-site.

Table 5-2 Waste streams, storage and management

Waste stream	EWC code	Storage option	Management option
Paper and cardboard	20 01 01	Labelled bins	Recycling
Excavation waste	17 05 04	Segregated stockpiles	Off site treatment/disposal
Plastic	20 01 39	Segregated skips / bins	Recycling
Timber	17 02 01	Timber skip	Recycling
Mixed metals	17 04 07	Metal skip	Recycling
Mixed Waste	17 09 04	Enclosed skips	Recycling

5.4.5 Decisions made on each waste stream will be periodically revisited and checked with material and waste receivers and also operating landfills. This will ensure the case for waste management remains robust.

5.4.6 A SWMP spreadsheet (following the WRAP template is included in Appendix B for information. Whilst the template is no longer available, this is the most effective way of tracking waste data throughout the project. This is a working document that that will be utilised to record estimated and actual waste arisings, and Duty of Care information throughout the Stage 4 works.

5.4.7 As information becomes available the anticipated waste generation figures will be updated prior to start on site. Information on actual waste arisings will be maintained by the Environment Manager and can be provided to the Local Planning Authority on request.

5.4.8 Following completion of the Stage 4 works, a review will be undertaken and recorded within the SWMP, to compare the estimated waste arisings and management options with the actual waste arisings and management options employed. The review will establish where actual waste arisings differ in volume or composition to that estimated and where different management options have been employed and provide explanation for the deviation.

5.4.9 It is important to re-iterate that the accompanying SWMP spreadsheet is a working document that requires the relevant sections completing at different stages, throughout the Stage 4 works. Final completion of the spreadsheet should not take place until the Stage 4 works is completed. Therefore, at any point during the Stage 4 works, sections of the spreadsheet will be incomplete.

5.4.10 Site Waste Management Plans have been produced to cover other Stages of Development, where required.

[3] Network Rail, Environment and Social Minimum Requirements for Projects – Design and Construction. March 2019.

Appendices

APPENDIX A – WORKS LOCATION

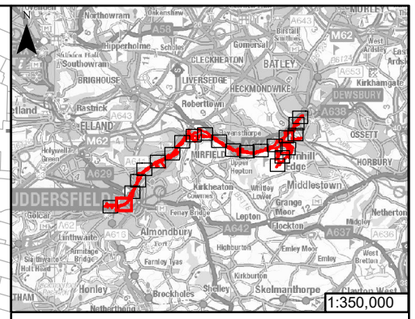
N

Westgate (MVL3/90)
➢ Implementation of anti-trespass measures

Penistone Line

Huddersfield Narrow Canal

Continued on Page 1



Scheme Boundary

Adjacent Map Sheet

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

SchemeTitle: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

Drawing Title

Figure 1
Stage 4 works

Designed	R.Bowes	Signed Electronically	Date 12/02/2021
Drawn	R.Bowes	Signed Electronically	Date 12/02/2021
Checked	P.Butler	Signed Electronically	Date 12/02/2021
Approved	P.Butler	Signed Electronically	Date 12/02/2021

Scale(s): 1:2,500

ELR & Project Chainage: ---

Alternative Reference: ---

Sheet: 2 of 22

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001370

Revision: P01.1

Sheet Size A3 297 x 420

N

Railway works include
- 4 tracking
- Horizontal track realignment
- Relaying of ballast and tracks

Continued on Page 4

Halfords - access to business to be maintained

Huddersfield Viaduct – Span 4 – Fitzwilliam Street Underbridge
- Substructure repairs including removal and reinstatement of the pier to the south-western corner of the structure
- Strengthening to cross girders
- Removal of parapet and replacement with replica in cast iron

Huddersfield Viaduct (MVL3/92) Bradford Road
- Existing bridge deck to be removed and replaced
- Additional masonry pilasters/buttresses will be formed at the corners of the new abutments into which the concrete parapet will join.
- New concrete abutments to be built with stone facing in front of existing sandstone at both ends and, on both elevations.

Huddersfield Viaduct - general strengthening works along the length of viaduct together with localised repairs to arches where necessary. These works include pinning and grouting, shear anchors and spandrel strengthening with tie bar and pattress plates.

DNO - Fitzwilliam Street

Huddersfield Viaduct Span 1 (MVL3/929 (1)) - John William Street
- existing bridge deck will be removed and replaced with a new single span bridge deck

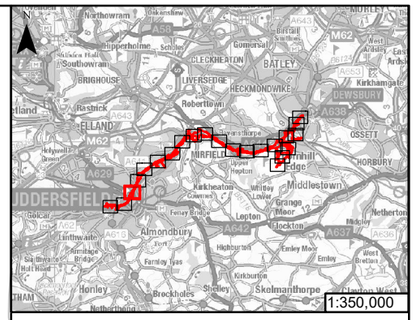
Fitzwilliam Street Construction Compound

Huddersfield Station - construction compound

Brian Jackson House

Huddersfield Station
- main train shed - structural works, two bays at Manchester end of canopy to be demolished, two new bays at Leeds end of platform 1;
- reinstatement of main train shed lantern;
- smaller train shed)canopies B&C) to be demolished, new roof to be constructed;
- free standing canopies over island platforms
- extension to canopy to service Penistone line;
- tea rooms to be deconstructed and relocated;
- a covered footbridge (with lift and stairs) to be constructed (step free access)
- concrete infill of existing parcel subway
- extension to existing passenger subway to service new island platform to north of station
- Grit blasting of main train shed
- Works to railway lines including provision of new platforms and removal of existing railway sidings
- Demoltion of existing relay room

Continued on Page 2



Scheme Boundary

Adjacent Map Sheet

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

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Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

SchemeTitle: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

Drawing Title

Figure 1
Stage 4 works

Designed	R.Bowes	Signed Electronically	Date 12/02/2021
Drawn	R.Bowes	Signed Electronically	Date 12/02/2021
Checked	P.Butler	Signed Electronically	Date 12/02/2021
Approved	P.Butler	Signed Electronically	Date 12/02/2021
Scale(s) 1:2,500		ELR & Project Chainage ---	
Alternative Reference ---			Sheet 3 of 22
Drawing Number 151667-TSA-00-REP-W-EN-001370			Revision P01.1

Sheet Size A3 297 x 420

N

Hillhouse Construction Compound subject to separate planning permission

Continued on Page 5

Railway works include
- 4 tracking
- Horizontal track realignment
- Relaying of ballast and tracks

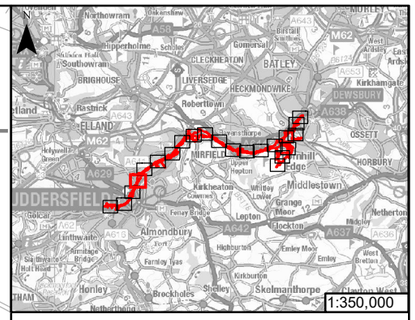
Hillhouse DNO

Hillhouse Lane (MVL3/94)

Earthworks - E0 - soil nailing

Huddersfield Viaduct - general strengthening works along the length of viaduct together with localised repairs to arches where necessary. These works include pinning and grouting, shear anchors and spandrel strengthening with tie bar and pattress plates.

Continued on Page 3



Scheme Boundary

Adjacent Map Sheet

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

Suitability:

NetworkRail

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Scale(s): 1:2,500

ELR & Project Chainage: ---

Alternative Reference: ---

Sheet: 4 of 22

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001370

Revision: P01.1

Sheet Size A3 297 x 420

APPENDIX B – SITE WASTE MANAGEMENT PLAN

Cover Sheet

SNC·LAVALIN

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Key to Cell Shading	Manual Completion	Automated Completion

Project	Huddersfield to Westtown (Dewsbury) Scheme - Stage 4
Job Number	
Date of issue	16/06/2023
File Path	P:\GBMRB\LEGE\Projects\852\Jobs\EAM\5185387 TRU W3 Huddersfield to Westtown (Dewsbury)\TWAO post-submission\Order Conditions\Conditi
File Name	Huddersfield to Westtown Stage 4 SWMP.xlsm
Primary contact name	Pam Butler
Primary contact email	pam.butler@atkinsglobal.com
Document Sensitivity	

This spreadsheet and its contents have been prepared and are intended solely for Network Rail's information and use in relation to Stage 2 of the Huddersfield to Westtown (Dewsbury) Scheme.

Atkins Ltd assumes no responsibility to any other party in respect of or arising out of or in connection with this spreadsheet and/or its contents.

Overview of the spreadsheet (contents/purpose/objective)

This spreadsheet forms the Site Waste Management Plan for Stage 2 of the development. It records basic details on the Scheme, design decisions made to reduce waste and estimated waste quantities. When the Scheme reaches construction phase details on quantities and types of waste generated will be recorded, as well as the details of the contractors collecting and managing the waste.
It is a live document and will be updated throughout the Scheme's lifecycle.

Sources

Add New Source Row | Delete Last Source Row | Reset Sources

	File	Comment
1		
2		
3		

Sheets List

Update Sheets List

Reference Tab
Input Tab
Calculation Tab
Output Tab
Archived Tab

	Sheet Name	Description	Tab Type
1		Basic Details	Reference
2		Design Actions	Input
3		Forecast Waste	Input
4		Reporting	Output
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Document History

SNC·LAVALIN

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Key to Cell Shading | Manual Completion | Automated Completion

Revision	Contents/Changes	Originated	Date	Checked	Date	Reviewed	Date	Authorised	Date
1	Draft for planning	PB	16/06/2023						
2									
3									
4									
5									

Basic Details

Client name :	Network Rail
Principal contractor :	BAM Nuttall
Owner of document :	Pam Butler
Project title :	Network Rail (Huddersfield to Westtown (Dewsbury) Improvements) Order - Stage 4
Project location :	Huddersfield to Westtown (Dewsbury)
Construction value :	
Type of construction :	Railways
Activity :	Both (new build and refurb)

Project targets

Please select project targets applicable to your project

KPI	Phase	Target	Unit
Waste arisings	All	90	t
Waste recovery	Demolition	90	%
Waste recovery	Excavation	95	%
Waste recovery	Constructio	90	%

Schedule

Start date :	01-Sep-23	dd/mm/yy
Completion date :		dd/mm/yy

Position	Name	Contact Details
Client	Network Rail	
Principal Contractor	BAM Nuttall	
Site Waste Management Plan Drafter	Pam Butler	pam.butler@atkinsglobal.com

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document / drawing	Waste stream	Material type	Date for completion (dd/mm/yyyy)	Status
1	Waste Reduction Action	Design work will seek to ensure excavation waste such as soils and track ballast will be reused on site where possible. Following which the priority for materials will be off-site re-use before recycling, following the waste hierarchy.	BAM	TBC	Other C&D segregated waste	track ballast other than those mentioned in 17 05 07		
2	Waste Reduction Action	Design work will seek to ensure excavation waste such as soils and track ballast will be reused on site where possible. Following which the priority for materials will be off-site re-use before recycling, following the waste hierarchy.	BAM	TBC	Other C&D segregated waste	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03		
3	Waste Prevention Action	The detailed design stage and proposed construction methods seek to minimise the loss of vegetation on site. Where minimisation is not possible, composting or mulching the vegetation should be considered, with use in landscaping within the Stage 1 works where possible.	BAM	TBC	Other C&D segregated waste	biodegradable waste		
4	Waste Prevention Action	The Alliance will consider setting off-cut/surplus targets for sub-contractors with a positive incentive scheme for on-site waste champions. Setting targets at design stage that are incorporated into procurement is recommended.	BAM	TBC	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03		
5	Waste Reduction Action							
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document / drawing	Waste stream	Material type	Date for completion (dd/mm/yyyy)	Status
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Forecast Waste

						Forecast Quantities		Calculated Quantities (Converting between m^3 and t)		
C, D or E Activity	**Waste Stream**	**Material Type**	**Further description of waste - optional**	**Suggested LOW Code**	**Waste or Re-Use**	**(m^3)**	**(tonnes)**	**(m^3)**	**(tonnes)**	**Forecast provided by**
Excavation	*Packaging*	*plastic packaging*	*plastic packaging*	*15 02 02*	*Off-site destination*	*###*	*###*	*###*	*###*	*A.N Other*
Demolition	Inert - mixture of concrete, bricks, tiles etc.	bricks	Removing internal walls	17 01 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Gypsum	gypsum-based construction materials	Removing internal walls	17 08 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	bricks	New door openings in exisiting walls	17 01 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Gypsum	gypsum-based construction materials	New door openings in exisiting walls	17 08 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	concrete	kerb/upstand in former taxi rank area	17 01 01	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Wood	wood	Removed Windows	17 02 01	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Wood	wood	Removed Doors	17 02 01	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	concrete	Removed Concrete	17 01 01	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	bricks	Removed external wall	17 01 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Metals	iron and steel	Removed Steel	17 04 05	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Mixed C&D waste	mixed construction and demolition wastes	Demolished balustrade	17 09 04	Off-site mixed			0.00	0.00	Alexandra Evans
Demolition	Gypsum	gypsum-based construction materials	Removed ceilings	17 08 02	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Other C&D segregated waste	household plastics	Removed pipework etc	20 01 39	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Metals	mixed metals	Removed pipework etc	17 04 07	Off-site segregated			0.00	0.00	Alexandra Evans
Demolition	Other C&D segregated waste	Furniture and bulky items	Office Furniture	20 03 07	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Other C&D segregated waste	discarded electrical and electronic equipment	Sockets and switches etc	20 01 36	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	tiles and ceramics	Sinks/basins	17 01 03	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Inert - mixture of concrete, bricks, tiles etc.	tiles and ceramics	Toilets	17 01 03	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Other C&D segregated waste	discarded electrical and electronic equipment	Hand driers and other miscellaneous electrical items	20 01 36	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Inert - Glass	household glass	Mirrors	20 01 02	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Metals	mixed metals	Checker plate	17 04 07	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Metals	iron and steel	Bump rails	17 04 05	On-site re-use			0.00	0.00	TRU Alliance
Demolition	Metals	mixed metals	Rain water attenuation tanks and equipment	17 04 07	On-site re-use			0.00	0.00	TRU Alliance
Demolition	Metals	mixed metals	Removing internal walls - caged storage	17 04 07	Off-site segregated			0.00	0.00	Alexandra Evans

Forecast Waste

						Forecast Quantities		Calculated Quantities (Converting between m^3 and t)		
C, D or E Activity	**Waste Stream**	**Material Type**	**Further description of waste - optional**	**Suggested LOW Code**	**Waste or Re-Use**	**(m^3)**	**(tonnes)**	**(m^3)**	**(tonnes)**	**Forecast provided by**
Demolition	Metals	iron and steel	Toilets	17 04 05	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Metals	iron and steel	Sinks/basins	17 04 05	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Wood	wood	kitchen units	17 02 01	On-site re-use			0.00	0.00	Alexandra Evans
Demolition	Other C&D segregated waste	discarded electrical and electronic equipment	Rain water attenuation tank equipment	20 01 36	On-site re-use			0.00	0.00	Alexandra Evans
Construction	Packaging	plastic packaging	Packaging from newly installed items such as toilets, lockers, tables, chairs etc - nominal figure due to difficulty in estimating	15 01 02	Off-site segregated			0.00	0.00	Alexandra Evans
Construction	Packaging	wooden packaging	Packaging from newly installed items such as toilets, lockers, tables, chairs etc - nominal figure due to difficulty in estimating	15 01 03	Off-site segregated			0.00	0.00	Alexandra Evans
Construction	Other C&D segregated waste	mixed municipal waste	Waste from personnel undertaking work such as food and drink packaging etc - nominal figure due to difficulty in estimating	20 03 01	Off-site mixed			0.00	0.00	Alexandra Evans
Construction	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	Offcuts, damaged items etc - nominal figure due to difficulty in estimating	17 09 04	Off-site mixed			0.00	0.00	Alexandra Evans
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	

View data in: tonnes

Reporting

Combined stages C,D and E

Construction

Demolition

Excavation

	Forecast		Actual	
	m^3	Tonnes	m^3	Tonnes
Total Waste	-	-		
Total Waste to landfill	0	0		
% Waste diverted from landfill	#DIV/0!	#DIV/0!		
% Materials reused on site	#DIV/0!	#DIV/0!		

Combined stages C, D and E

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
	Inert - Building rubble												
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
	13 05 01*												
	13 05 03*												
	13 05 06*												
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	20 01 36												
	20 01 99												
	20 02 01												
	20 03 01												
	20 03 03												
	20 03 04												
	20 03 06												
	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

		Recovery of materials and wastes											
		Re-used				Recycled				Energy recovery			
		off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
	Inert - Building rubble												
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
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	20 02 01												
	20 03 01												
	20 03 03												
	20 03 04												
	20 03 06												
	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

Construction

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals											FALSE	
	Wood												
	Packaging											FALSE	
	Inert - Building rubble											FALSE	
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste											FALSE	
	Segregated Haz Waste											FALSE	
	Other C&D segregated waste											FALSE	
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
	13 05 01*												
	13 05 03*												
	13 05 06*												
	13 07 01*												
	14 06 01*												
	14 06 02*												
	14 06 03*												
	14 06 04*												
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	17 01 03												
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	17 02 01												
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	17 04 11												
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	17 05 05*												
	17 05 06												
	17 05 07*												
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	17 08 01*												
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	19 13 01*												
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	20 01 08												
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	20 01 23*												
	20 01 25												
	20 01 35*												
	20 01 36												
	20 01 99												
	20 02 01												
	20 03 01												
	20 03 03												
	20 03 04												
	20 03 06												
	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

		Recovery of materials and wastes											
		Re-used				Recycled				Energy recovery			
		off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
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	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
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Demolition

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)		Recovery of materials and wastes											
														Re-used				Recycled				Energy recovery			
														off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total																									
Class	Non Haz (Inert)																								
	Haz																								
	Non Haz (Non Inert)																								
Assigned Waste Stream	Inert - Soil & stones																								
	No Haz (Non Inert) - Soil & stones																								
	Non Haz (Non Inert) - Dredgings																								
	Segregated Haz - Soil & stones																								
	Gypsum																								
	Metals																								
	Wood																								
	Packaging																								
	Inert - Building rubble																								
	Inert - Glass																								
	Mixed Hazardous - C&D waste																								
	Mixed C&D waste																								
	Segregated Haz Waste																								
	Other C&D segregated waste											FALSE													
List of Waste (LOW) Code	08 01 11*																								
	08 01 12																								
	08 01 13*																								
	08 01 14																								
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	08 03 18																								
	13 01 12*																								
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Excavation

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)		Recovery of materials and wastes											
														Re-used				Recycled				Energy recovery			
														off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total																									
Class	Non Haz (Inert)																								
	Haz																								
	Non Haz (Non Inert)																								
Assigned Waste Stream	Inert - Soil & stones											FALSE													
	Non Haz (Non Inert) - Soil & stones																								
	Non Haz (Non Inert) - Dredgings																								
	Segregated Haz - Soil & stones											FALSE													
	Gypsum																								
	Metals																								
	Wood																								
	Packaging																								
	Inert - Building rubble																								
	Inert - Glass																								
	Mixed Hazardous - C&D waste																								
	Mixed C&D waste																								
	Segregated Haz Waste																								
	Other C&D segregated waste																								
List of Waste (LOW) Code	08 01 11*																								
	08 01 12																								
	08 01 13*																								
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