

Darfield Community
Association

**Darfield Weir Rock
Ramp**

Pre-construction (Health
& Safety) Information

Darfield Community
Association

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Ramp**

Pre-construction (Health
& Safety) Information

September 2008

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This report takes into account the
particular instructions and requirements
of our client.
It is not intended for and should not be
relied upon by any third party and no
responsibility is undertaken to any third
party

Job number 125949

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		125949

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1 Introduction

This Pre-construction Information for the Darfield Weir Fish Passage Improvement scheme has been prepared under Regulation 10 of the Construction (Design and Management) Regulations 2007, follows the format suggested in appendix 3 of the CDM Regulations Approved Code of Practice HSG224 and Arup standards.

The purpose of this information is to highlight the main health and safety issues in connection with the works. It forms a basis for Contractors to explain their proposals for managing the health and safety risks involved.

Your proposals as Principal Contractor and where applicable as sub contractor(s), should address hazards and associated risks arising from design, construction, commissioning and maintenance of the project for which you are responsible. The Principal Contractor, when appointed, will assume responsibility for the Health and Safety Plan by issue of this document.

It is an obligation on all designers, from both the consultants and the contractors, including those commissioned for the design of the demolition, for them to continue to design for optimal health and safety and to communicate, through the Principal Contractor and the Health and Safety Plan, residual risks in their design.

Additionally, the Principal Contractor will develop the Construction Stage Health and Safety Plan and other contractors will provide appropriate input as part of their duties. In particular, the Principal Contractor will take reasonable steps to ensure co-operation between all other contractors where necessary to achieve compliance with the Plan.

The Client strives to ensure the highest standards of health and safety are maintained throughout its everyday business and this project is no exception. The client looks forward to a safe and healthy project with the co-operation of all parties.

The construction plan should be copied to and/or made available to all sub contractors.

If called to interview the Principal Contractor should be prepared to outline what they see as the top health and safety issues associated with this project and their proposals for addressing these.

1.1 Project description and programme details

The project involves the construction of a rock ramp structure at Darfield Weir on the River Dearne at Darfield, South Yorkshire, to provide fish and canoe passage over the weir. The rock ramp works will be part of a wider re-generation scheme for the Dearne Valley, which includes the provision of a car park and an adjacent canoe launching/recovery facility downstream of the weir, close to Doncaster Road bridge and the provision of permanent fishing platforms and links to local footpaths along the river.

The rock ramp will incorporate a row of heavy boulders at the toe and a number of herringbone blockstone rows aligned in the manner of groynes across the river to encourage water retention and positioned to present a gently curving plan shape. The blockstone groynes are to be stabilised and retained by dowels bars fixed to the downstream apron supporting a low height hardwood timber sill. The river bed between the groynes is to be filled with graded armour stone. Other works at the site include the provision for a canoe launching/recovery point downstream of the rock ramp just upstream the Darfield bridge; this work will involve the construction of timber landings supported by timber piles, re-grading of the river bed and the creation of a path from existing bank top level to the landing site.

The rock ramp has been designed enable construction within the river during low flow conditions although some work within the river channel will be required for fixing dowels and sill and placing of stone blocks. It is also likely that the canoe launching/recovery point

works can be safely constructed within the river channel at the banks during periods of low flow.

The programme for the works is not yet determined but it is expected that site works will commence during Spring 2009.

1.2 Details of client, designers and other consultants

Client	Darfield Community Association Darfield House 36A Snape Hill Road Darfield Barnsley South Yorkshire S73 9JU Contact: Glenda Sheppard Tel: [REDACTED] Fax: 01226 753602 Email: mail@darfield.info
Designer	Ove Arup & Partners Ltd (Arup) Admiral House Rose Wharf 78 East Street Leeds LS9 8EE Contact: Lia Silva Tel: [REDACTED] Fax: 0113 2428573 Email: lia.silva@arup.com
CDM Co-ordinator	Ove Arup & Partners Ltd (Arup) Admiral House Rose Wharf 78 East Street Leeds LS9 8EE Contact: Jeff Pickles Tel: [REDACTED] Fax: 0113 2428573 Email: jeff.pickles@arup.com
Principal Contractor	To be advised

1.3 Elements for Contractor's design

The Contractor is to design the structural elements for the proposed canoe launch/recovery landing – a conceptual layout is shown on the drawings for the Contractor's development to suit the final layout and usage of the river bank area adjacent to the works.

1.4 Notification of Project

In accordance with the Construction (Design and Management) Regulations 2007, this project must be notified to the Health & Safety Executive at the following office:

Edgar Allen House

241 Glossop Road

SHEFFIELD

S10 2GW

Fax: 0114 291 2379

An initial notification has already been made; a copy of the F10 Notification Form is included in Appendix A.

1.5 Extent and location of existing records and plans

There is no as-built information available for existing weir.

The following site surveys/investigations will be made available to the Contractor:

- Topographical survey drawings
- Environmental/Ecological surveys
- Service/Utility Plans

2 Client's Considerations and Management Requirements

2.1 Structure and organisation

Darfield Community Association is the promoter of the scheme and is managing the sources of funding for the rock ramp. The Environment Agency will assume responsibility for maintenance of the structure after expiry of the Contractor's maintenance obligations. Arup have been commissioned by the Community Association as designer and also CDM co-ordinator for the design stages of the scheme.

The contractual arrangements for procurement of the works have not been determined but it is likely that the Community Association will take a Client role.

2.2 Safety goals for the project and arrangements for monitoring and review

The Association's core values incorporate health and safety as a key factor.

From time to time Safety Advisors undertake audits of operational sites and construction sites. The Darfield weir site is no exception, and may be subject to a safety audit at any time.

The exchange of information on Health & Safety performance is intended to be two-way, and the Association encourages service partners to notify the Health & Safety team of "near misses" as well as actual incidents, and to report instances of bad practice observed amongst Associations personnel.

2.3 Permits and authorisation requirements

There are no permits or authorisations required except those associated with working in rivers.

2.4 Emergency procedures

The Contractor should arrange to receive notifications of flood warnings and devise suitable procedures for monitoring of river levels and evacuation of the site in the event of imminent flooding.

The Contractor should also liaise with any other Contractor who may be on site at the same time to ensure that emergency procedures are compatible and coherent.

2.5 Site rules and other restrictions on contractors, suppliers and others

The following specific site rules will apply:

- Noise, vibration and other environmental nuisances to be within limits agreed with the local authority
- Deliveries should be restricted from 8 am to 6 pm during week days to avoid nuisance for local residents in the small housing estate adjacent to Doncaster road
- Access/egress point should be clearly signed and appropriate traffic management implemented
- Procedures for site visitors
- Prevention of unauthorised entry

2.6 Activities on or adjacent to the site during the works

None.

3 Environmental Restrictions and Existing on-site Hazards

3.1 Safety hazards

3.1.1 Boundaries and access, including temporary access

The site boundary is shown on the drawings. Access/egress to the site is restricted to an existing partially surfaced steep access ramp on the western side of Darfield Bridge. There is potential for the construction works to result in nuisance for local residents on the other side of Doncaster Road through noise, dust and exhaust emissions. These impacts should be mitigated by good site management, considerate working hours and timing of deliveries.

3.1.2 Adjacent land uses

Land adjacent to the site is a washland which is separated by a line of protected trees from the large farmland to its west side. A permanently wet area exists adjacent to the site.

3.1.3 Existing storage of hazardous materials

There is no storage of hazardous materials at the site.

3.1.4 Location of existing services – water, electricity, gas etc

The approximate locations of existing services have been identified from searches carried out. There are no recorded services in the existing river weir or within the area proposed for the rock ramp construction.

It will be the responsibility of the Principal Contractor to obtain the locations of existing services prior to work being carried out on site. Where appropriate the exact locations of all services are to be identified and marked by the Principal Contractor prior to commencement of the works

3.1.5 Ground conditions

No specific site investigation has been carried out at the site of the proposed rock ramp.

3.1.6 Existing structures

Darfield Weir is owned by the Environment Agency and its purpose is unclear. It is believed it has been built for industrial purposes.

The weir has a crest length of approximately 13m and it is believed to be constructed from concrete faced rockfill. A concrete/stone apron extends about 16m downstream from the crest. The weir appears to be in good condition and is generally undamaged.

Although the existing structure appears to be well constructed from durable materials, the form of construction is not known.

3.2 Health hazards

No unusual health hazards have been identified at the site except those associated with working adjacent to and within the river.

3.3 Environmental constraints

The Contractor is to consider the constraints imposed on his activities by environmental features at the site when planning and executing the construction of the works. Reference should be made to the Darfield Weir Environmental Scoping Report.

4 Significant design and construction hazards

4.1 Design assumptions and control measures

The design of the works does not specifically require the diversion of flows in the river; the Contractor is to determine the water control arrangements required to suit his preferred method of construction. It is likely that some activities will require the use of divers or local measures to exclude or divert flows.

The preservation of stability of the partially completed rock ramp structure is a key consideration and the designer envisages that the works will be executed in the following general sequence:

- Install boulder toe at downstream end of the ramp
- Construct lowest blockstone groyne including dowels and hardwood kerb
- Fill between boulder toe and blockstone groyne with armour stone
- Construct remaining blockstone groynes and progressively fill advancing upstream

The Contractor is required to devise a construction sequence and method to ensure stability of the partially completed rock ramp and install measures to support any sections of the weir disturbed by the rock ramp construction operations, including creation of the crest notches.

4.2 Arrangements for co-ordination of on-going design work and handling design changes

Details of any necessary redesign, together with details of the hazards and risk assessments, shall be submitted to the CDM Coordinator for consideration in due time before execution of the work.

4.3 Information on significant risks identified during design (health and safety risks)

Details of designer risk assessments are included as Appendix C.

4.4 Materials requiring particular precautions

There are no exceptional hazards arising from the use of specified materials.

5 The Health and Safety File

5.1 Format and content

It is the responsibility of the CDM Coordinator to prepare, review and amend the Health and Safety File.

CDM Regulation 16(e) requires the Contractors and Principal Contractor to provide relevant information to the CDM Coordinator to review, amend or add to the Health and Safety File. Designers, Contractors, the Client and Principal Contractor all have the responsibility to provide relevant information to the Health and Safety File. Appendix 4 of the Code of Practice lists documents and information, which may be included in the File. Such information may be design criteria, selected "as built" drawings, general details of methods and materials used, detail of maintenance facilities procedures and requirements, and details on the location and nature of utilities and services.

The Contractors and Principal Contractor are required to provide general details of the methods and materials used, together with test records for inclusion in the File. The Contractor shall provide these during the progress of the work with the aim that there should be no outstanding information by Practical Completion.

An outline description of the proposed content of the Health and Safety File is described below:

Outline description of the proposed content of the Health and Safety File:

PROPOSED CONTENT	CONTRIBUTOR(S)
1 Introduction to this file	CDM Coordinator
2 Project Particulars	CDM Coordinator
3 Brief description of the work carried out	CDM Coordinator
4 Residual hazards and how they have been dealt with:	Designers and design subcontractors
5 Key structural principles incorporated in the design of the structure	Designers
6 Hazards associated with materials used	Designers and Principal Contractor
7 Information regarding the removal or dismantling on installed plant and equipment	Designers and Principal Contractor
8 Health and Safety Information about equipment provided for cleaning and maintaining the structure	Designers and Principal Contractor
9 The nature, location and markings of significant services, including fire-fighting services	Designers and Principal Contractor
10 Relevant information and identified drawings of the structure, its plant and equipment	Designers and Principal Contractor

PROPOSED CONTENT	CONTRIBUTOR(S)
<p><i>Note:</i></p> <p><i>"Designers" Includes designers employed by the Principal Contractor, Contractors or Sub-Contractors.</i></p> <p><i>"Principal Contractor" Includes information supplied by other Contractors or Sub-Contractors.</i></p>	

Appendix A

**Initial Notification to
HSE (Form F10)**



Health & Safety Executive

Notification of Construction Project

The Data Protection Act 1998 requires the Health & Safety Executive (HSE) to inform you that this form may include information about you (this is called personal data in the Act) and that we are a 'Data controller' for the purposes of this Act. HSE will process these data for Health, Safety and Environmental purposes. HSE may disclose these data to any person or organisation for the purposes for which it is collected or where the Act allows disclosure. As data subject, you have the right to ask for a copy of the data and to ask for any inaccurate data to be corrected.

1. Is this the initial notification of the project or are you providing additional information not previously available?



Initial notification



Additional Information

2. What is the date of forwarding this notification or provision of additional information?

02 July 2008

3. Project Name

Darfield Weir Rock Ramp

4. What is the exact address of the construction site? (Full address, including postcode)

Darfield Weir, River Deame, Darfield, South Yorkshire.
OS Grid Ref: SE422 047

5. What is the name of the Local Authority where the site is located?

Barnsley MBC

6. Give a brief description of the project and the construction work it includes

Improvements to fish passage at Darfield weir including construction of a rock weir/ramp in the river channel and provision of canoe portage facilities

7. Client contact details (name, full address, postcode, telephone number and any email address)
(If more than one client, please attach details on separate sheet)

Name Darfield Community Association Email address glendasheppard@darfield.info
Address Darfield House, 36A Snape Hill Road, Darfield, Barnsley
South Yorkshire
Postcode SA73 9JU Telephone number [REDACTED]

8. Please give the name and address of any designer already engaged? (name, full address, postcode, telephone number and any email address) (If more than one designer, please attach details on a separate sheet)

Name Ove Arup & Partners Email address lia.silva@arup.com
Address Admiral House, Rose Wharf, 78 East Street,
Leeds, West Yorkshire
Postcode LS9 8EE Telephone number [REDACTED]

9. CDM Co-ordinator contact details (name, full address, postcode, telephone number and any email address)

Name Ove Arup & Partners Email address Jeff.pickles@arup.com
Address Admiral House, Rose Wharf, 78 East Street, Leeds
Postcode LS9 8EE Telephone number [REDACTED]

Notification of Construction Project

10. Principal Contractor contact details (name, full address, postcode, telephone number and any email address)

Name	TBA	Email address	TBA
Address	TBA		
Postcode	TBA	Telephone number	TBA

11. What is the time allowed by the client to the Principal Contractor referred to in regulation 15(b) for the planning and preparation for construction work?

Minimum of 15 days

12. Please give you estimates of the following. Please indicate if these estimates are:☒

Original

☐

Revised

a. The planned date for the start of the construction phase	Spring 2009
b. The planned duration of the construction phase	6 weeks
c. The maximum number of people at work on site at any one time	8
d. The planned number of contractors on the site	1

13. Please give the name and address of any contractor already appointed (name, full address, postcode, telephone number and any email address) (If more than one contractor please attach details on a separate sheet)

Name		Email address	
Address			
Postcode		Telephone number	

14. Declaration of client

I hereby declare that I am aware of my duties under the Construction (Design and Management) Regulations 2007 (S.I. 2007/320)

Signed by or on behalf of the organisation

Print Name

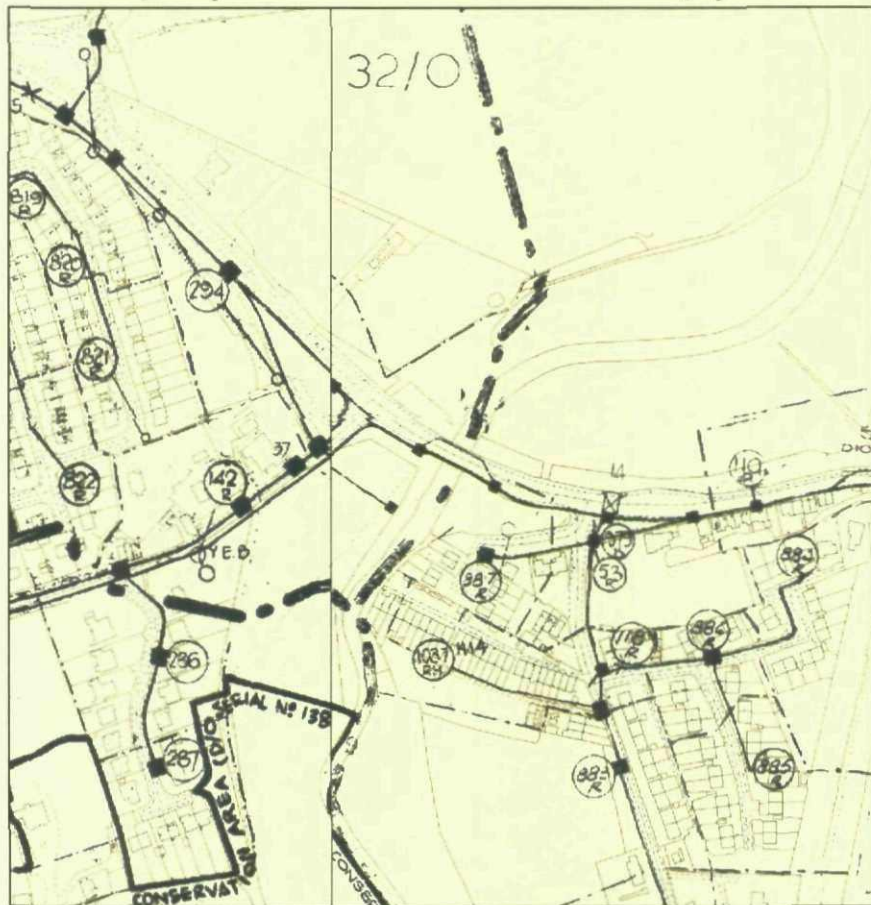
Date

Appendix B

Services Information

Company	Date of request	Date of reply	Response
Affiniti	05 August 2008		
British Telecom	05 August 2008	05 August 2008	map provided
C E Electric (YEDL)	05 August 2008	05 August 2008	map provided
Cable & Wireless	05 August 2008		
Colt	05 August 2008		
Easynet Communications	05 August 2008	07 August 2008	No plant in area
Energis Communications	05 August 2008		
Fibernet UK Ltd	05 August 2008		
GPU Power (Aquila)	05 August 2008		
Infolines	05 August 2008	06 August 2008	No plant in area
National Grid Gas Distribution	05 August 2008	09 August 2008	map provided
National Grid Uk Transmission	05 August 2008		
NTL:Telewest (Virgin Media)	05 August 2008		
Orange PCS Ltd	05 August 2008	14 August 2008	No plant in area
THUS	05 August 2008		
Veolia Environmental Services	05 August 2008	08 August 2008	No plant in area
Verizon Business	05 August 2008		
Yorkshire Water	05 August 2008	08 August 2008	map provided

Maps by email Plant Information Reply

**IMPORTANT WARNING**

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked routes.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 09.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

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KEY TO BT SYMBOLS

—	UNDERGROUND PLANT	○	POLE
—	OVERHEAD PLANT	□	CABINET
■	JOINT BOX	□	BURIED JOINT
○	DISTRIBUTION POINT	□	JOINTING POST
■	MANHOLE	---	PROPOSED U/G
---	DP BOUNDARY	---	PROPOSED O/H
---	OTHER BT BOUNDARY	□	PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

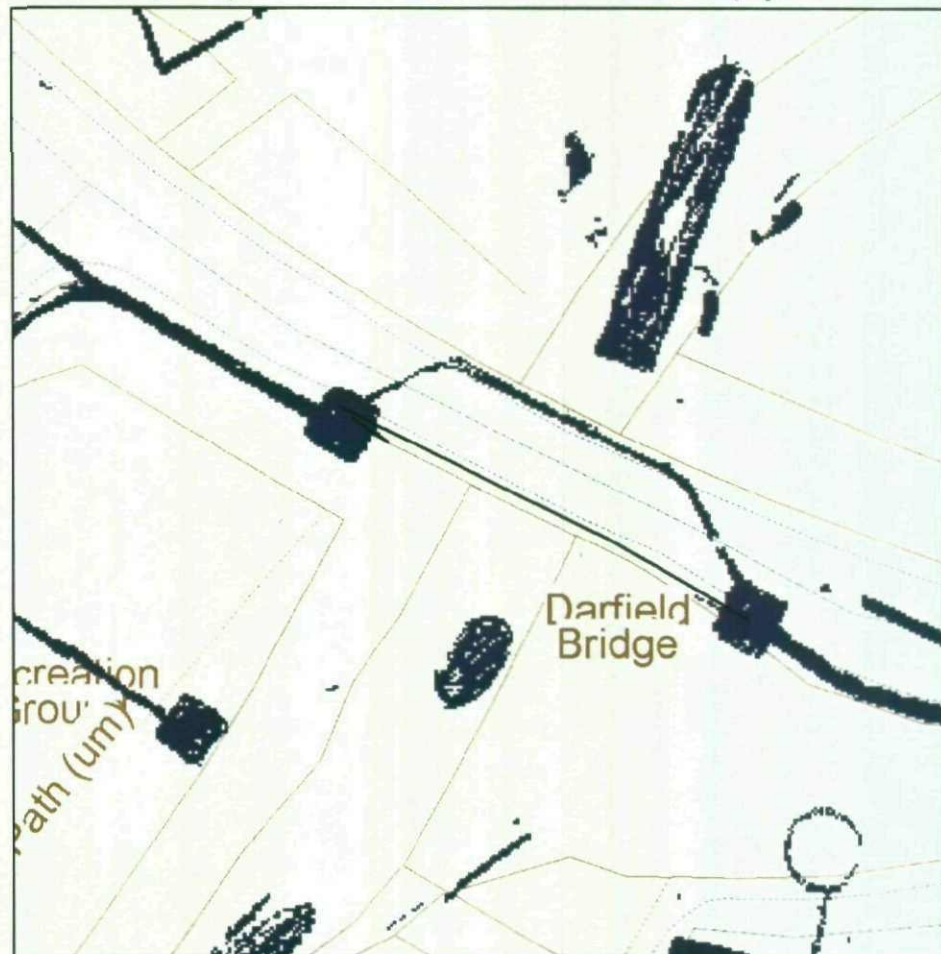
openreach
a BT Group business

BT ref: UID10412W

Map reference (centre): SE4206504565

Issued: 04/08/08 10:45:27

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

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KEY TO BT SYMBOLS

—	UNDERGROUND PLANT	○	POLE
— A/C, D/W or W —	OVERHEAD PLANT	⊠	CABINET
■	JOINT BOX	□	BURIED JOINT
⊕	DISTRIBUTION POINT	⊞	JOINTING POST
⊞	MANHOLE	---	PROPOSED U/G
---	DP BOUNDARY	---	PROPOSED O/H
---	OTHER BT BOUNDARY	---	PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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a BT Group business

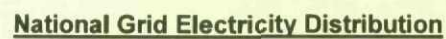


BT ref: OQG10502M

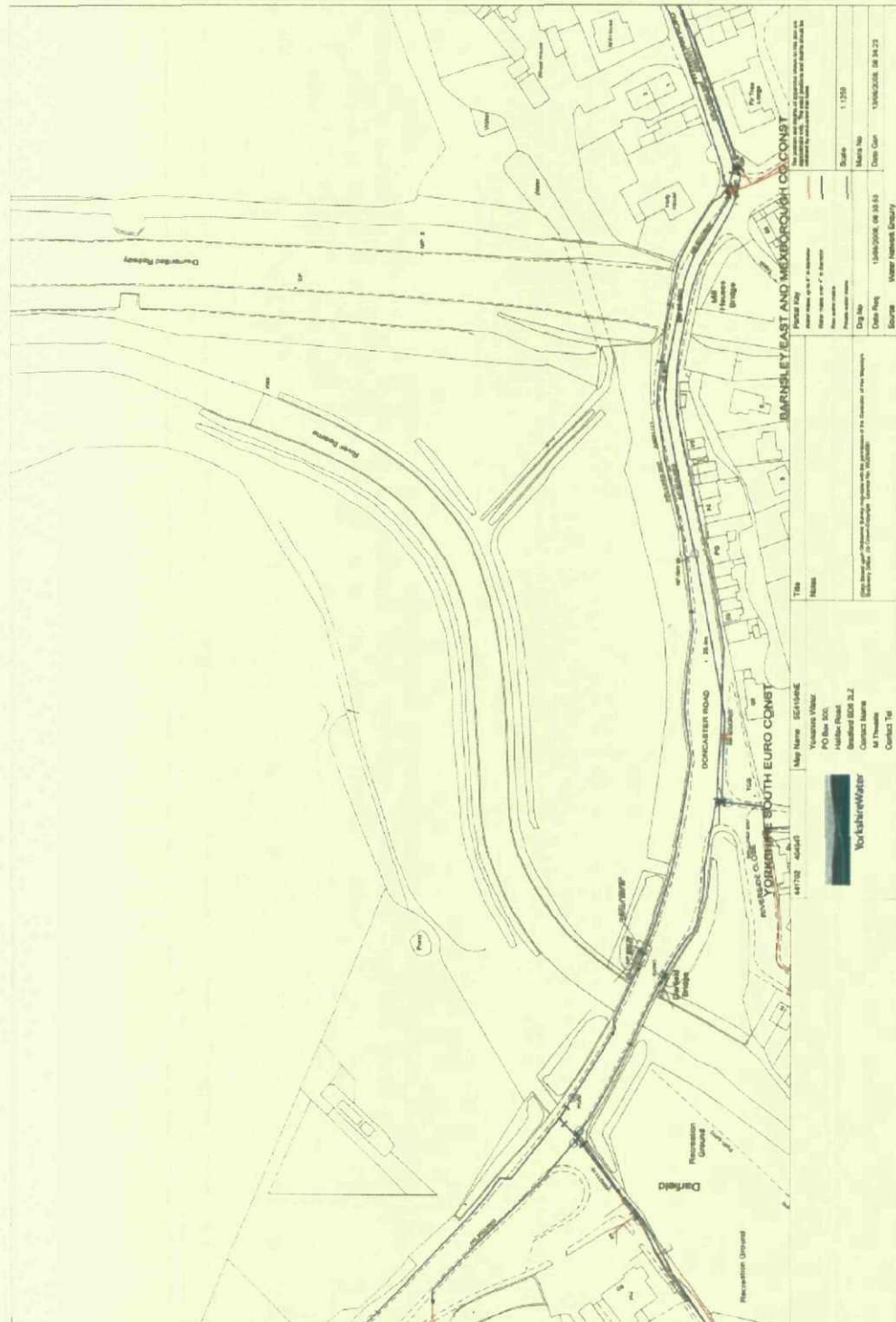
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Issued: 04/08/08 10:53:36

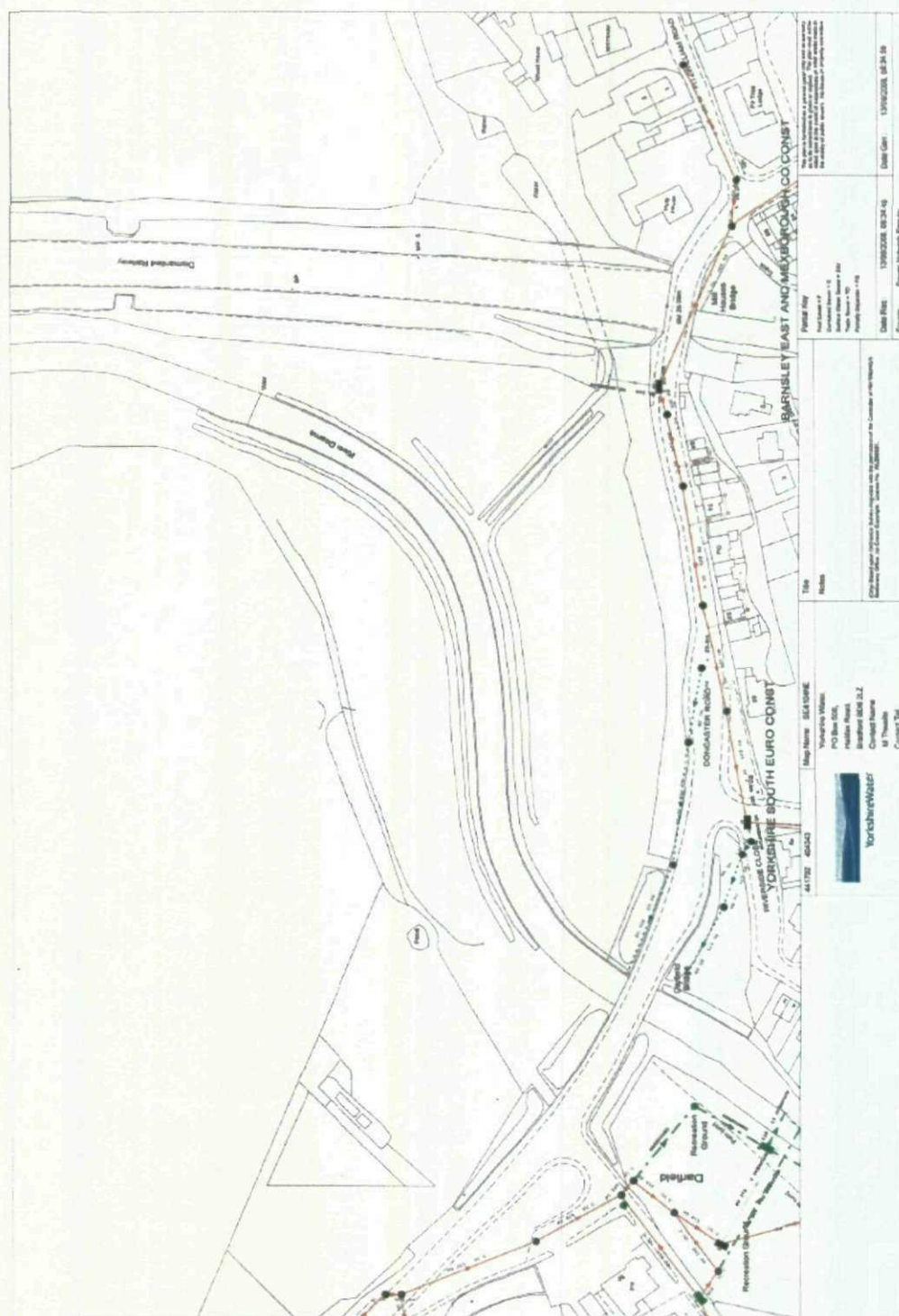
British Telecom







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Appendix C

Designer risk assessments

Hazard Risk Register

Register reference 0-12-9

Project	Darfield Weir Rock Ramp	Job number	125949
Package/Topic	Rock Ramp	Design stage	Detail design

Remember: Avoid – Reduce – Control and communicate relevant information to others (CDM Regulation 13)

Date (+ Initials)	Area/Location of Risk Exposure	Description of Hazard and Risk Exposure	Mitigation of Risk (Potential or Achieved)	A	R	C	Further Action	by	Status
									Active/closed
14/08/2008 JP	Site wide	<u>Construction</u> Access from public highway –steep ramp and difficult sight lines	P- Contractor to extend ramp length to decrease ramp gradient			✓	Recommend topo survey and provide to Contractor	Client Contractor	Active Active
14/08/2008 JP	Site wide	<u>Construction</u> Public access to working areas	A – Public access restricted to eastern side of river eliminating conflict with moving plant P-Contractor to install fencing and prohibition signs for general public entrance in working areas	✓		✓	Specify on drawings	Designer Contractor	Closed Active
14/08/2008 JP	Site wide	<u>Construction</u> Collapse of flood/river bank by heavy vehicle access along the river bank	P- Contractor to assess required plant and surface and install temporary works along the river bank		✓			Contractor	Active
14/08/2008 JP	Rock ramp	<u>Construction</u> Working adjacent to water	A – Detail rock ramp to permit construction in the river channel. P – Contractor to devise handling procedures using suitable plant ,installation of fences and barriers as required	✓		✓		Designer Contractor	Closed Active
14/08/2008 JP	Rock ramp	<u>Maintenance</u> Working adjacent to water	A – Minimise structure maintenance by robust design and competent construction P – Maintain by machine working from adjacent river bank	✓		✓	Maintenance protocol to be developed	Designer Client	Closed
14/08/2008 JP	Rock ramp	<u>Maintenance</u> Damage to weir crest	A – Weir crest integrity assured by provision of rock ramp downstream of it	✓				Designer	Closed

Hazard Risk Register

Register reference 0-12-9

Project	Darfield Weir Rock Ramp	Job number	125949
Package/Topic	Rock Ramp	Design stage	Detail design

Remember: Avoid – Reduce – Control and communicate relevant information to others (CDM Regulation 13)

Date (+ initials)	Area/Location of Risk Exposure	Description of Hazard and Risk Exposure	Mitigation of Risk (Potential or Achieved)	A	R	C	Further Action	by	Status
									Active/closed
14/08/2008 JP	Weir Crest	<u>Operation</u> Injury to canoeists traversing the crest	A – design wide canoe notch with radiussed edges	✓				Designer	Closed
14/08/2008 JP	Rock ramp	<u>Operation</u> Injury to canoeists traversing the ramp	A – Design dowel bars to be fully buried in rock fill; positioning of perturbation boulders remote from canoe chute P – Maintenance	✓		✓		Designer Client	Closed