

Natural Resources Wales

Salmon for Tomorrow 2 – Llanfair Talhaiarn

Environmental Action Plan

Project name	Llanfair Talhaiarn
Project code	CE0603-507
Area	
Date	01/12/2023
Version number	3.0
Author	Rhodri Thomas

Revision history

Revision date	Summary of changes	Author	Version number
07/04/2022	First Draft	Bethan Follis	1.0
01/12/2023	Draft construction issue for client review	Rhodri Thomas	2.0
09/01/2024	Construction Issue	Rhodri Thomas	3.0

EAP Approvals

Name	Signature	Title	Date	Version

Distribution

Name	Title	Date	Version

Purpose

This Environmental Action Plan (EAP) summarises the actions required to implement the environmental mitigation for the removal of Llanfair Talhaiarn Weir. It sets out specific objectives and actions defining the way in which environmental risks should be minimised. It also details roles and responsibilities of those involved in the proposal.

These actions form part of the contract documentation and must be adhered to.

Roles

Each action in the table below has one named person who is responsible for ensuring that the action is implemented. It is ultimately the contractor's responsibility for ensuring the EAP commitments, which may include planning conditions, are delivered.

The Environmental Assessment Team (EAT) are responsible for agreeing any changes to the EAP and for signing off, or agreeing to the signing off of, the actions.

The contractor and Project Manager are responsible for advising EAT on any changes to method statements or the planned construction work as these may result in changes to the EAP or additional consultation with statutory consultees. EAT will assess the significance of these changes and determine the appropriate course of action.

The contractor is also responsible for implementing good environmental practice on site, in line with their own EMS. Typical issues include:

- any working hour restrictions
- dust suppression measures
- traffic management
- site waste management
- materials management
- vehicle maintenance and management
- pollution prevention and control (including storage, refuelling and incident response)
- response procedures e.g. services strike, contaminated land
- hazardous materials handling and storage
- noise management
- securing and delineation of working areas including signage

Environmental Audits

It is not anticipated that any audits will be undertaken during the working period.

Environmental Incident Reporting system

Procedure

1. STOP

Before you report the incident, stop the work

2. CONTAIN

Where safe to do so, carry out any local site pollution prevention or emergency incident measures

3. NOTIFY

Report the incident to the (24 hour) NRW incident hotline 0300 065 5111, stating that it is an NRW caused incident and giving full details of the incident, including location and contact details. Also request, and note, the incident number.

4. REPORT

Report the incident (including the incident number) to: the EMS team
(EMS.team@cyfoethnaturiolcymru.gov.uk)

All environmental incidents must be reported at the earliest opportunity to the Employer, NRW Project Manager and NRW Environmental Project Manager. In addition, near misses must be reported via the hotline where there was/is the potential for a significant impact and where lessons can be learned.

Initial reports for such incidents and near misses must be followed by a written report using the contractor's in-house forms. This must include the following information:

- project/location
- date
- contractor
- details of what happened
- cause of incident
- lessons learned

This final and comprehensive investigation report is to be provided by the contractor to the Employer, NRW Project Manager and Safety, Health and Environment Manager within 14 days.

Summary Scope of Works

As part of the Salmon for Tomorrow 2 programme, Natural Resources Wales (NRW) are seeking to improve fish passage in rivers in Wales, typically where fish passage is impeded by weirs or poorly functioning or obsolete fish passes built several years ago.

At Llanfair Talhaiarn on the River Elwy is a redundant weir which is in a very poor condition (National Grid Reference SH93052 70474). The existing weir is a barrier to migratory fish species as well as preventing downstream movements of sediment.

NRW appointed Arup to undertake a review of the options for improving fish passage at this weir, and subsequently undertake detailed design on the agreed option – which includes removal of the weir some bank reprofiling, scour protection works, and construction of an upstream check weir. This will allow access to 20km of upstream spawning habitat.

The works comprise:

- Demolition and disposal of the existing concrete weir, base, wing walls and adjacent concrete slabs.
- The left-hand bank of the removed weir will be regraded and lined with bank protection.
- The right-hand bank of the removed weir will be restored to a natural slope without bank protection, as shown on drawing 290013-ARP-IZ-LF-DR-ZX-0008.
- Bank toe stabilisation, in the form of rock rolls is required at the location of the removed weir.

- Sediment that is required to be removed by the contractor to facilitate the works is to be placed downstream of the weir as shown on 290013-ARP-IZ-LF-DR-ZX-0008.
- Construction of a blockstone check weir, approximately 170m upstream of the existing weir, and 50m downstream of the indicated location of a Welsh Water water main crossing the river. This blockstone weir will have a low flow channel in the centre. The banks adjacent to the check weir are to be graded as shown on 290013-ARP-IZ-LF-DR-ZX-0005.
- Reworking of river bed material to form a low flow channel at the removed weir location.
- The eroded left-hand bank approximately 60 metres downstream of the toe of the removed weir will be reprofiled to minimise future erosion. Site won brash will be used to reinstate the bank, sourced through the coppicing of one small tree upstream and a larger tree downstream as well as the removal of a tree on the opposing bank's gravel bed. A layer of gravel will be taken from the gravel bar opposite the eroded riverbank and willow harvested from a sustainable source downstream.
- The coppicing and removal of trees and vegetation on site is to be undertaken in accordance with the Tree Constraints Plan.
- Planting of approximately twenty trees to replace those that have been removed or coppiced is to be carried out across the site, in areas shown on the drawings. Exact locations are to be agreed with the Employer's Representative.
- Installation and / or replacement of fencing around the works.

Relevant Contact Details

Project Sponsor	Ben Wilson
Project Executive	Melissa Mahavar Snow
NRW Project Manager	Ruairi Barry
NRW Environmental Project Manager	N/a
ECW	N/a
Contractor	TBC
Consultant Project Manager	Philip Smith (Arup)
Consultant Ecologist	Arup
Other Specialists	Rhodri Thomas (Arup - Environmental Lead)

Environmental Action Plan

Ref no	Objective	Action	Responsibility	Reference to further information	Progress and Further Action	Sign off and date
Pre-construction						
Humans						
A1.1	Minimise disruption to local residents	Access likely to be through a farmers field near the junction of the A544 and A548 which will require temporary relocation of the public footpath. Temporary closure or a safe crossing of the access track will need to be facilitated. A Traffic Management Plan is recommended to minimise disturbance to local residents and the traffic accessing the site.	<i>Contractor</i>			
		Consultation required with residents regarding access and proposed works.				
A1.2	To communicate information about the proposed	Inform the local community, landowners and other key stakeholders on the proposed	<i>NRW</i>			

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	scheme	scheme objectives and program of works; including NRW contact name and number.				
		Inform adjacent and local landowners / tenants of the nature and duration of construction and provide contact name and number. Contractor to arrange site access through NRW.	<i>Contractor</i>			
A1.3	To ensure no damage to the local road network, including access route.	Undertake a pre-construction survey of local roads along the route that will be impacted by works. Temporary construction access requirements to be reviewed and updated following appointment of a Contractor.	<i>Contractor</i>			
Archaeology						
A2.1	Identify all potential risks to archaeological features	Desk review of Historic Wales and Archwilio Records has indicated there are no heritage constraints at the site.	<i>NRW</i>			

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Surface water bodies						
A3.1	Maintain water quality of surrounding watercourses – River Elwy, Clwyd to Melai	<p>Compliance with relevant Guidance for Pollution Prevention: in particular, GPP 5: Works and maintenance in or near water</p> <p>Any fuel / plant storage or refuelling to undertaken in accordance with relevant GPPs. Refer to B5.1 for details.</p> <p>Prepare a silt and water quality management plan that takes into consideration the demolition and stabilisation works.</p>	Contractor	http://www.netregs.org.uk/environmental-topics/pollution-prevention-guidelines-ppgs-and-replacement-series/guidance-for-pollution-prevention-gpps-full-list/	Guidance to be integrated into Contractor Risk Assessment Method Statement (RAMS).	
		<p>Sediment sampling and testing is proposed prior to construction to establish if there are elevated levels of pollutants in the sediment stored behind the weir. Additional mitigations will be implemented to manage the release of silt should high levels of nutrients be found.</p> <p>Sediment sampling and testing for likely chemicals is proposed</p>	NRW	<p>Arup, <i>Silt Sampling Interpretive Technical Note and Waste Assessment</i>, June 2022</p>	Sediment sampling has been undertaken which has determined that the riverbed gravels are suitable for re-use on site or inert waste disposal.	

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		prior to construction. If elevated levels of chemicals on the EQSD list are found, then additional construction mitigations would be implemented to minimise sediment disturbance.				
A3.2	To prevent flooding caused by obstructions in a main river or works to flood defences.	<p>Construction Risk Assessments and Method Statements should implement safe systems of work to include consideration of flood forecasts, inclement weather and local river levels during construction.</p> <p>The Contractor will be required to obtain a temporary FRAP prior to commencing works.</p> <p>Integrate any conditions / requirements of the FRAP applications (temporary and permanent works).</p>	Contractor	<p>NRW Flood Maps:</p> <p>https://maps.cyfoethnaturiolcymru.gov.uk/Html5Viewer/Index.html?configBase=https://maps.cyfoethnaturiolcymru.gov.uk/Geocortex/Essentials/REST/sites/Flood_Risk/viewers/Flood_Risk/virtualdirectory/Resources/Config/Default</p>		
		A flood modelling study is being conducted for the permanent works.	NRW	Arup, Flooding Technical Note (290013-ARP-CP-LF-RP-CX-	Flood study complete. NRW communicating detriment to affected landowners.	

Ref no	Objective	Action	Responsibility	Reference to further information	Progress and Further Action	Sign off and date
				0004), 22 September 2023	Obtain FRAP for the permanent works.	
Ecology						
A4.1	To minimise the risk of spreading Invasive Non-Native Species (INNS)	<p>A Preliminary Ecological Appraisal (PEA) has been prepared by AECOM. This confirmed presence of INNS (Japanese Knotweed and Himalayan Balsam).</p> <p>Non-native invasive species assessment (ISA) and management plan for the Site is recommended to be undertaken. This should include appropriate biosecurity measures required to avoid spread of INNS.</p>	NRW			
		<p>The Contractor shall prepare a Biosecurity Risk Assessment to evaluate potential risks and implement relevant biosecurity precautions. The transfer of amphibian and fish diseases as well as INNS shall be minimised by undertaking cleaning and disinfection of</p>	Contractor's Environmental Lead	<p>Check Clean Dry protocol: http://www.nonnative-species.org/checkcleandry/index.cfm</p> <p>Chalara (Ash die-back):</p>		

Ref no	Objective	Action	Responsibility	Reference to further information	Progress and Further Action	Sign off and date
		<p>equipment. All debris, plant fragments and mud should first be scrubbed off footwear and rinsed with water.</p> <p>Disinfection shall comprise soaking in a bleach solution (1 measure of household bleach to 9 measures of water) for 15 minutes or using Virkon solution (1mg/ml) for 1 minute. Fabrics can be washed on a 40' C cycle (with detergent, ensuring sufficient rinsing). All used disinfectants should be disposed of appropriately.</p> <p>To minimise the risk of spreading Phytophthora at woodland sites, scrub all visible soil and debris from footwear using water, spray with Propeller and leave until it has evaporated. Vehicle access along shall be kept to a minimum and mud should be cleaned from car wheels, wheel arches and footwells of cars.</p> <p>Biosecurity advice on ash dieback disease. Chalara, can</p>		<p>https://www.forestryresearch.gov.uk/tools-and-resources/pest-and-disease-resources/ash-dieback-hymenoscyphus-fraxineus/chalara-a-manual-1-introduction-and-contents/</p> <p>https://www.gov.uk/government/publications/chalara-management-plan</p> <p>Amphibian Disease: https://www.arguk.org/info-advice/advice-notes/324-advice-note-4-amphibian-disease-</p>		

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		be found via the link in the further information column.		<u>precautions-a-guide-for-uk-fieldworkers-pdf-2</u>		
A4.2	To prevent killing or injury of otters	<p>The PEA identified suitable habitat for otter.</p> <p>An Otter survey was undertaken in March 2022.</p> <p>As works will not commence within 24 months from the date of the otter survey it is recommended that a pre-construction ecological survey is conducted to ensure that the status of otter in the vicinity of the Site has not changed.</p>	NRW	<p>AECOM, PEA</p> <p>Alison Johnston, Otter Survey Note, March 2022</p>		
		<p>Pre-clearance / construction checks will be undertaken, in accordance with best practice survey guidance for otter resting / breeding places, within 50m of the works.</p> <p>Works should be restricted to daylight hours and any artificial lighting that may be required should be directed away from the woodland and watercourse.</p>	Contractor's Environment Lead			

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		Open excavations, if required, should be covered overnight or a means of escape for mammals provided.				
A4.3	To prevent killing or injury of breeding birds (including destruction of nests or eggs).	<p>The PEA identified that presence of breeding birds is likely.</p> <p>Any vegetation that may support breeding birds (e.g. woodland or scrub) which requires clearance, should be removed outside the nesting season (typically considered to be March to August, inclusive).</p> <p>Pre-construction breeding bird checks to be carried out by a SQE (including areas used for access) if vegetation clearance required in nesting season. Removal should be carried out under the watching brief of a suitably experienced ecologist.</p> <p>A targeted survey to identify the presence of kingfisher is recommended.</p> <p>It is recommended that works at night are avoided. However,</p>	<i>Contractor's Environment Lead</i>			

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		<p>if this is unavoidable, any artificial lighting used, including during low light levels in the daytime, should be minimised and only directed towards absolutely necessary (i.e. downward pointing) to reduce the potential impacts to breeding, sheltering and roosting birds.</p> <p>As works will not commence within 12 months from the date of the PEA it is recommended that a pre-construction ecological survey is conducted to ensure that the status of breeding birds in the vicinity of the Site has not changed.</p>				
A4.4	To prevent killing or injury of Bats	<p>The PEA identified potentially suitable features for roosting bats.</p> <p>Any features (likely trees) with the potential to support roosting bats that are to be affected, should be subject to a preliminary bat roost appraisal in accordance with standard guidance for bat surveys</p>	NRW			

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		<p>(Collins 2016:10 and BS 8596:2005).</p> <p>The results of this assessment may lead to a requirement for further surveys, such as emergence/re-entry surveys and potentially the need for an NRW bat licence if a roost is confirmed within a tree that is unavoidable.</p> <p>Suitable habitat for foraging bats was also identified.</p>				
		<p>Works at night should be avoided. However, if this is unavoidable, any artificial lighting used, including during low light levels in the daytime, should be minimised and only directed towards absolutely necessary (i.e. downward pointing) to reduce the potential impacts to foraging bats.</p>	<i>Contractor's Environment Lead</i>			
A4.5	To prevent killing or injury of badgers	The PEA identified suitable habitat for badgers within the Survey Area.	<i>Contractor's Environment Lead</i>			

Ref no	Objective	Action	Responsibility	Reference to further information	Progress and Further Action	Sign off and date
		<p>A badger survey was undertaken in March 2022. This found no evidence of badgers in the immediate area, although they are known to present in the wider area.</p> <p>As works will not commence within 24 months from the date of the PEA it is recommended that a pre-construction ecological survey is conducted to ensure that the status of badgers in the vicinity of the Site has not changed.</p> <p>If the survey identifies one or more active badger setts that could be disturbed or directly affected by the proposed works, a Natural Resources Wales licence and appropriate mitigation is likely to be required.</p>				

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A4.6	To avoid effects on other protected species.	<p>If any protected species are encountered during the works, all work in the vicinity should stop immediately and a SQE contacted for advice on how to proceed.</p> <p><i>Fish</i></p> <p>The river is likely to support a range of fish species, potentially including Section 7 (of the Environment (Wales) Act 2016) species (e.g., brown trout).</p> <p>The Contractor shall be required to develop method statements, a Pollution Incident Response Plan and Silt and Water Quality Management Plan for NRW approval in advance of any in-river works. Tracking within the watercourse must be kept to an absolute minimum.</p> <p>At least 3 weeks prior to any in-river de-watering activity the contractor must inform the NRW PM of the date in which</p>	<i>Contractor's Environment Lead</i>			

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		<p>the activity is to be undertaken in order for the NRW PM to arrange NRW Fisheries Staff to be on site.</p> <p>Undertake Fish Rescue during any in-river de-watering activities. Contractor to provide at least 3 weeks' notice prior to when de-watering is necessary.</p>				
A4.7	To avoid effects on locally protected sites	<p>The weir is located within the River Elwy, which comprises two of the Local Wildlife Sites (LWS).</p> <p>Works should be undertaken in accordance with Guidance for Pollution Prevention – Working or Maintenance in or Near Water (GPP5), especially within the Afon Elwy LWS and in order to protect the extent of the LWS downstream of the weir.</p> <p>Works should otherwise avoid direct impacts to habitats within the boundaries of the Afon Elwy</p>	<i>Contractor</i>			

Ref no	Objective	Action	Responsibility	Reference to further information	Progress and Further Action	Sign off and date
		LWS.				
A4.8	Protection of vegetation to be retained	Retained vegetation to be protected during construction using temporary fencing. Access route through field should remain outside of the work exclusion zones as shown on the Tree Constraints Plans. This is to protect the root zones of the mature trees that border the northern bank of the river.	<i>Contractor</i>			
A4.9	Protection of trees to be retained	Reference is made to the Tree Constraints Plans for the works.	<i>Contractor</i>	<i>North-West Tree Consultancy. Tree Constraints Plans. November 2023.</i>		
Land use						
A5.1	To minimise deterioration to land quality.	A pre-construction photographic record should be made of all working areas and the site compound to ensure that they are reinstated to pre-	<i>Contractor</i>			

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		construction conditions as a minimum.				
Nuisance						
A6.1	To minimise disturbance to local residents and businesses	Liaise with residents and businesses in close proximity to works.	<i>NRW</i>			
During construction						
Humans						
B1.1	Ensure safety of pedestrians using the footpath	Implement fencing as required to protect local pedestrians.	<i>Contractor</i>			
B1.2	To minimise disruption to the local road network.	Implement agreed traffic management plan.	<i>Contractor</i>			
Surface water bodies						
B2.1	Maintain water quality of surrounding watercourses – River Elwy, Clwyd to Melai.	The Contractor shall implement their approved Pollution Incident Response Plan and Silt and Water Quality Management Plan. Tracking within the watercourse must be	<i>Contractor</i>	<i>CIRIA C741 'Environmental Good Practice On Site'; Fourth Edition (2015).</i>		

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		<p>kept to an absolute minimum.</p> <p>Ensure that equipment and any fuel storage facilities are protected by secure fences and locked where possible to prevent accidental spillages as a result of vandalism;</p> <p>Drip trays to be used underneath standing equipment;</p> <p>Any drip tray with a mixture of water and contaminant will be emptied into a 25l plastic container using a funnel. The container will be disposed of at the end of construction or when full;</p> <p>Emergency spill kits and trained personnel will be available;</p> <p>All vehicles, including fuel bowzers, will carry emergency spill kits;</p> <p>Bulk fuel will be stored in a double bunded tank inside the compound. The tank will be covered to prevent rainwater build up in the bund. Filling</p>		<p>http://www.netregs.org.uk/environmental-topics/pollution-prevention-guidelines-ppgs-and-replacement-series/guidance-for-pollution-prevention-gpps-full-list/</p> <p><i>PPG 1 Understanding your Environmental Responsibilities – Good Environmental Practices.</i></p> <p><i>GPP 5 Works and Maintenance In or Near Water.</i></p> <p><i>PPG 6 Working at Construction and Demolition Sites.</i></p>		

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		<p>hose and nozzle will be kept within the bunded area and locked when not in use. Diesel and petrol in clearly marked suitable containers will be stored in bunded areas inside the secure storage container. There should be no refuelling outside of the site compound. All refuelling to be done over hardstanding away from watercourses;</p> <p>Any stockpiles of clay will be managed to shed rainwater and avoid run off to watercourses;</p> <p>All stockpiles should be sealed to contain runoff; and</p> <p>All mechanical plant to use minimal safe fuel quantities for in-watercourse works.</p>		<p><i>PPG 7 Safe Storage – The Safe Operation of refuelling Facilities.</i></p> <p><i>GPP 8 Safe Storage and Disposal of Oils.</i></p> <p><i>GPP 13 Vehicle Washing and Cleaning.</i></p> <p><i>GPP 20 Dewatering Underground Ducts and Chambers.</i></p> <p><i>GPP 21 Pollution Incident Response Planning.</i></p> <p><i>GPP 22 Dealing with Spills.</i></p>		

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				Guidance for Pollution Prevention (GPP) documents NetRegs Environmental guidance for your business in Northern Ireland & Scotland		
Ecology						
B3.1	To minimise the risk of spreading invasive species	<p>Biosecurity measures will be employed as required to ensure that no invasive species are imported to the site.</p> <p>Biosecurity measures to be integrated into Contractor RAMS and adhered to on site.</p> <p>Any disturbed / removed invasive species must be treated appropriately, to ensure none are illegally spread from the site.</p>	<i>Contractor</i>			

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		Undertake early clearance of INNS using a specialist contractor	<i>NRW</i>			
B3.2	To avoid killing or injury of otters	If any otter breeding / resting areas are found during pre-construction checks, further survey work and mitigation measures may be required, in addition to a European Protected Species (EPS) Licence from NRW.	<i>Contractor's Environmental Lead</i>			
B3.3	To prevent killing or injury of breeding birds (including destruction of nests or eggs).	Vegetation clearance within the breeding bird season (March-August inclusive) should be avoided to prevent damage or destruction of occupied nests or harm to breeding birds. If this cannot be achieved, works within the core bird nesting season will require an inspection for breeding birds and their occupied nests by a suitably experienced ecologist no more than 24 hours prior to any works commencing. If nesting birds are found during the pre-construction checks, a	<i>Contractor's Environmental Lead</i>			

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		buffer around the nest will be implemented of at least 5 metres as agreed with the ecologist and further work within the immediate and surrounding area will be delayed until young have fledged and left the nest, and the nest is no longer in use.				
B3.4	To avoid effects on other protected species.	Should signs of any protected species be identified, all works will stop, NRW consulted, and a Protected Species Licence application submitted to enable works to progress.	<i>Contractor's Environmental Lead</i>			
		Toolbox Talks will be provided by a suitably experienced ecologist to all site personnel to inform them of ecological features at the Site. If any task lighting is required outside daylight hours (typically 30 minutes after sunrise and up to 30 mins before sunset),				

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		directional lighting (towards the ground) with minimal upward spill will be implemented, to avoid light spill into adjacent habitats to avoid disturbance to commuting and foraging protected species.				
B3.5	To prevent damage to trees	Measures to protect trees to be retained within and immediately adjacent to the Site and access route in line with the British Standard BS5837:2012 and the Tree Constraints Plans.	Contractor	North-West Tree Consultancy. Tree Constraints Plans. November 2023.		
B3.6	To avoid effects to Section 7 Species and Amphibians	Clearance of vegetation suitable for smaller species (long grass, hedges and scrub) will be avoided or kept to a minimum during the active season (March to October). If required during this time, clearance will be subject to a Toolbox Talk and Precautionary Methods of Working (2-stage clearance) written and overseen by a suitably experienced ecologist.	Contractor			

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Land use						
B4.1	To minimise deterioration to land quality.	Maintain the quality of the subsoil and topsoil within all working areas by following the mitigation measures outlined in B2.1.	Contractor	<i>British Standard 3882:2007: Specification for topsoil and requirements for use</i>		
Nuisance						
B5.1	To minimise noise disturbance to local residents.	<p>Working hours will be restricted as per the Works Information. Local residents will be consulted in advance by NRW on any requirements for out-of-hours work;</p> <p>Deliveries will only be made during working hours;</p> <p>Plant used during construction will be suitably sized for the works to limit noise and vibration;</p> <p>Plant will be of a good modern standard and maintained to ensure unnecessary vibration or noise from exhaust systems or loose panels is eliminated;</p>	Contractor	<i>British Standard guidelines BS5228:2009 – Code of practice for noise and vibration control on construction and open sites</i>		

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		<p>Any stationary plant (e.g. generators and compressors) will be positioned as far as practically possible away from residential properties and screened to reduce noise emissions;</p> <p>All plant will be shut down when not in use to eliminate any unnecessary noise;</p> <p>Where possible, quieter electrically powered plant will be used as opposed to diesel or petrol-driven equipment;</p> <p>Avoid unnecessary revving of engines and switch off equipment when not required;</p> <p>Use rubber linings in, for example, chutes and dumpers to reduce impact noise;</p> <p>Minimise drop height of materials; and</p> <p>Start-up plant and vehicles sequentially rather than all together.</p>				

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B5.2	To minimise the effect on air quality to the local residents	<p>Working areas will be kept neat and tidy;</p> <p>Ensure stockpiled material (temporary works) does not cause air pollution;</p> <p>Road going vehicles will be restricted to running on hard surfaces where feasible;</p> <p>Wheel cleaning facilities will be available (hose pipe, brush) and if required a jet wash will be employed;</p> <p>Vehicles travelling off site will be observed to minimise mud/debris on the road;</p> <p>Control measures will be in place for disposal of rubbish;</p> <p>Machinery/vehicles to be well maintained, regularly serviced and comply with MOT emissions standards;</p> <p>Deliveries to site will be controlled to avoid queuing;</p> <p>Engines will be switched off when not in use.</p>	Contractor			

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Post-construction						
Humans						
C1.1	To keep public informed of work progress.	Notify local residents / businesses once work is complete.	<i>NRW</i>			
C1.2	To ensure no damage to the local road and pedestrian path network, including access route.	Carry out post-construction survey and compare to pre-construction condition survey undertaken. Undertake any repairs as necessary.	<i>Contractor</i>			
Land use						
C2.1	To reinstate site compound all other working areas.	Access routes and working areas to be subject to post-construction inspection (against pre-construction survey details) to ensure that reinstatement has been carried out to an acceptable level.	<i>Contractor</i>			