

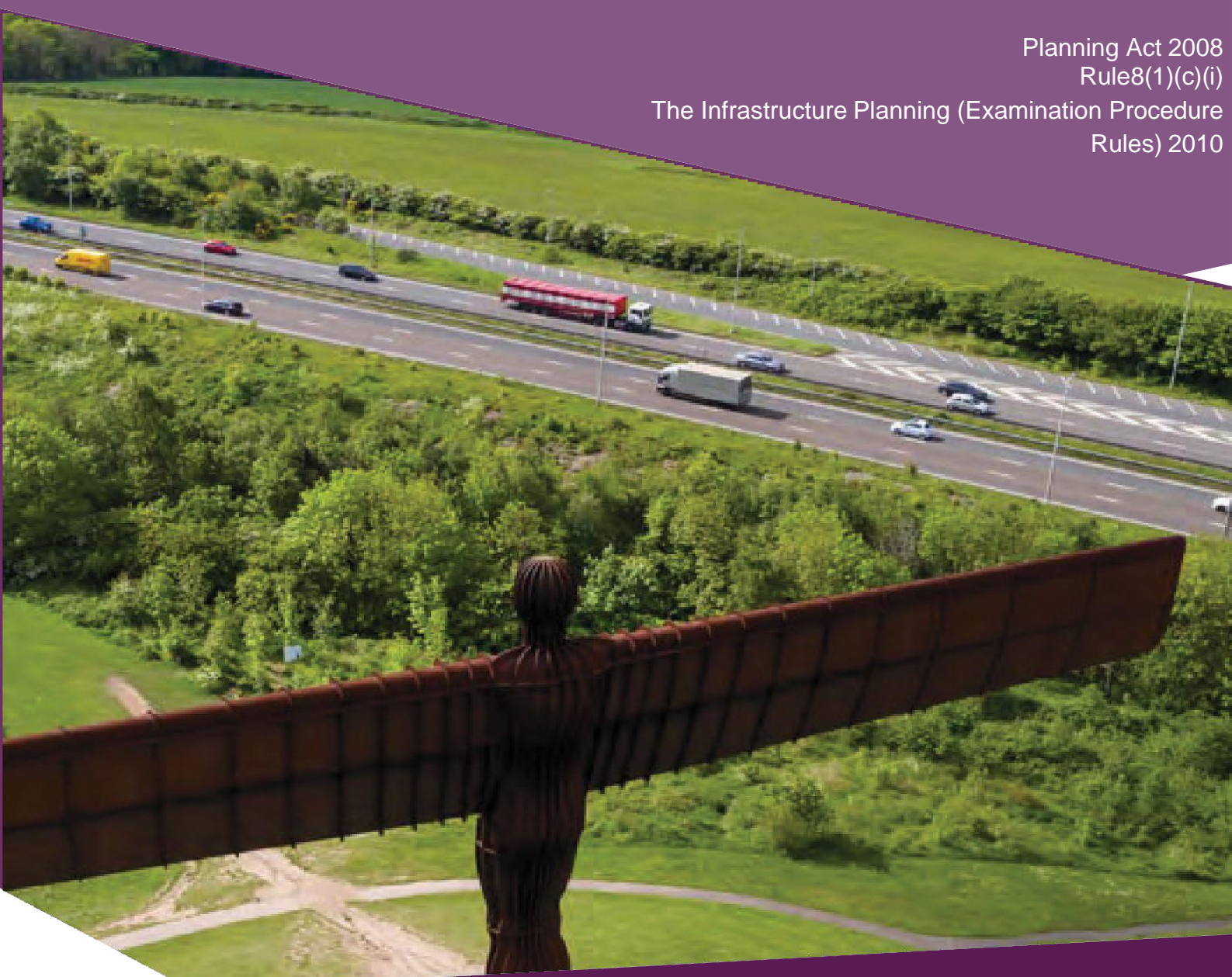
## A1 Birtley to Coal House

### Scheme Number: TR010031

Applicant's Responses to ExA's Third Written Questions  
- Appendix 3.0B - **Measures within the Outline Construction  
Environmental Management Plan in relation to the Additional  
Land and Allerdene Three Span Viaduct Option**

Planning Act 2008  
Rule8(1)(c)(i)

The Infrastructure Planning (Examination Procedure  
Rules) 2010



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Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Examination Procedure Rules) 2010**

**The A1 Birtley to Coal House  
Development Consent Order 20[xx]**

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Questions - Appendix 3.0B - Measures within the  
Outline Construction Environmental Management  
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Allerdene Three Span Viaduct Option**

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<b>Rule Number:</b>	Rule 8(1)(c)(i)
<b>Planning Inspectorate Scheme Reference</b>	TR010031
<b>Application Document Reference</b>	Applicant's Responses to ExA's Third Written Questions - Appendix 3.0B - Measures within the Outline Construction Environmental Management Plan in relation to the Additional Land and Allerdene Three Span Viaduct Option
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## CONTENTS

<b>1</b>	<b>Introduction.....</b>	<b>1</b>
	<b>Table 1 – Specific Measures Relevant to Managing and Limiting the Impacts from the Use of the Additional Land .....</b>	<b>1</b>
	<b>Table 2 – Specific Measures Relevant to Managing and Limiting the Impacts from Allerdene Three Span Viaduct Option .....</b>	<b>3</b>

## 1 Introduction

1.1.1 In response to the Examining Authority's Third Written Questions Q 3.0.2 b) two tables have been produced which list all of the specific measures within **Table 3-1 Register of Environmental Actions and Commitments (REAC)** of the **Outline Construction Environmental Management Plan (CEMP) [REP6-08 and 19]**, an updated version of which has been submitted as part of Deadline 8 (09 June 2020), that would be relevant for managing and limiting the impacts from:

- The use of the additional land during construction (Table 1)
- The Allerdene Three Span Viaduct Option (Table 2)

**Table 1 – Specific Measures Relevant to Managing and Limiting the Impacts from the Use of the Additional Land**

REAC Reference	Action within the REAC Relates to:
<b>General</b>	
G1	Updates and approval of the CEMP.
G2	The main contractor will sign up to and adhere to the National Considerate Constructor's Scheme.
G3	Communication with the public/community during construction including production of a Communication Plan.
G4	Site working hours.
G5	The main contractor will consult with the local authority regarding any evening or night-time works.
G6	Mitigation measures in relation to lighting.
G7	Installation of wheel wash facilities.
G8	Programming of material deliveries.
G9	Use of the most efficient plant, vehicles and equipment.
G12	The final layout of the construction compound to be sited at Junction 67.
G13	A 3m topsoil bund to be provided at the additional land.
G14	Reinstatement of land lost during construction to its pre-existing condition.
<b>Air Quality</b>	
A1	Measures to minimise emissions of dust.
A2	Site plant, machinery and equipment being well maintained, in good working order and switched off when not in use.
<b>Cultural Heritage</b>	
CH11	Intrusive groundwork within Lamesley Conservation Area.
<b>Landscape and Visual</b>	
L1	Measures to reduce magnitude and duration of visual impacts.
L2	Measures to minimise impacts on soil quality.
L3	Minimising vegetation removal and protecting / minimising impacts on retained vegetation.
L12	Management of the area of existing woodland off Banesley Lane and



<b>REAC Reference</b>	<b>Action within the REAC Relates to:</b>
	east of the existing housing and its improvement.
L15	Works being carried out in accordance with <b>Figure 7-6 Landscape Mitigation Design</b> of the ES [APP-061], the Environmental Masterplan, the Outline CEMP and the Manual of Contract Documents for Highways Works Series 3000 and Series 600. Monitoring of landscape planting.
L16	Post construction monitoring.
L17	Treatment and storage of topsoil including imported topsoil and topsoil depths.
L18	Measures to reinstate the existing hedgerow.
<b>Biodiversity</b>	
B2	Measures to achieve ecological enhancements.
B5	Pre-construction badger surveys.
B6	Timing of vegetation clearance and measures to be taken to protect bird species during vegetation clearance.
B8	Measures to protect reptiles.
B9	Monitoring of the freshwater environment and associated consents.
B13	The use of fencing and barriers to protect habitats and fauna.
B18	The strategy for the treatment of Invasive Non-Native Species (INNS) and INNS Management Plan.
B20	The protection of retained trees affected by construction will be in line with guidelines provided in BS 5837 Trees in relation to construction.
B22	Retention of deadwood and tree stumps to provide habitats for a wide range of species.
<b>Geology and Soils</b>	
GS2	Measures to minimise impacts on soil quality.
GS4	Measures to mitigate risks to human health (construction workers and surroundings site visitor/occupants).
GS5	Measures to minimise explosion risks associated with confined spaces.
GS6	Measures during construction to minimise risks associated with ground collapse and ground related structural damage.
<b>Material Resources</b>	
M1	Measures to be investigated during detailed design which have the potential to avoid and mitigate adverse impacts from material resources consumption, and the generation and disposal of waste.
M2	Reuse of material resources from Scheme demolition activities.
M5	Investigation of the potential reuse of materials on other schemes in the North East.
M6	A site waste management plan will be produced and maintained.
M7	Measures to maximise reuse of materials.
M8	Locally sourced materials and suppliers will be used where practicable.
<b>Noise and Vibration</b>	
N5	Noise and vibration measures to be implemented during construction.
N6	Management and logging of environmental noise and vibration comments/complaints.

REAC Reference	Action within the REAC Relates to:
N7	Measures to be implemented to minimise construction generated vibration.
<b>Population and Human Health</b>	
PH5	Reinstatement of areas temporarily required for construction.
PH6	Retention of existing footpaths and walking, cycling and horse riding routes.
PH8	Measures to maximise the potential for the workforce and the project supply chain to be sourced locally.
PH9	The commitment that a Construction Traffic Management Plan (CTMP) will be put in place in line with the Outline CTMP.
PH12	Measures to be implemented to minimise impacts to agricultural land holdings.
PH13	Minimising land take and ensuring the remaining land area continues to be viable for keeping horses.
<b>Road Drainage and the Water Environment</b>	
W13	Drawings and any relevant survey data being provided to Highways England.
W14	A temporary surface water drainage strategy being provided in the CEMP.
W15	Measures to be implemented during the construction phase to minimise impacts on water quality.
W16	The development of a temporary surface water drainage strategy to ensure that there will be no increase in runoff.
W17	Measures to be implemented to minimise the risks to the water environment associated with localised flooding during construction.
W18	Assessment of the potential for disruption to off-site field drainage prior to the commencement of works by the main contractor.
W19	The protection of culverts.

**Table 2 – Specific Measures Relevant to Managing and Limiting the Impacts from Allerdene Three Span Viaduct Option**

REAC Reference	Action within the REAC Relates to:
<b>General</b>	
G1	Updates and approval of the CEMP.
G2	The main contractor will sign up to and adhere to the National Considerate Constructor's Scheme.
G3	Communication with the public/community during construction including production of a Communication Plan.
G4	Site working hours.
G5	The main contractor will consult with the local authority regarding any evening or night-time works.
G6	Mitigation measures for lighting.
G7	Installation of wheel wash facilities.

REAC Reference	Action within the REAC Relates to:
G8	Programming of material deliveries.
G9	Use of the most efficient plant, vehicles and equipment.
G10	Minimising construction on land designated as Green Belt.
G12	The final layout of the construction compound to be sited at Junction 67.
<b>Air Quality</b>	
A1	Measures to minimise emissions of dust.
A2	Measures to minimise impacts on soil quality.
<b>Landscape and Visual</b>	
L1	Measures to reduce magnitude and duration of visual impacts.
L2	Measures to minimise impacts on soil quality.
L3	Minimising vegetation removal and protecting / minimising impacts on retained vegetation.
L4	Planting strategy between chainage 10325 and 10785 to maintain and enhance landscape and visual screening.
L5	Landscape planting between chainage 10101 and 10170 to provide screening from the road.
L7	Provision of woodland planting south of Allerdene embankment option.
L8	Landscape mitigation design to allow greater views of the Angel of the North.
L9	Landscape planting between chainage 12560 and 12920 to mitigate the impacts of vegetation removal.
L10	Landscape planting between chainage 12960 and 13500 to mitigate the impacts of vegetation removal.
L12	Management of the area of existing woodland off Banesley Lane and east of the existing housing and its improvement.
L13	Enhancement measures for the attenuation pond to provide improved habitat connectivity and enhanced views.
L15	Works being carried out in accordance with <b>Figure 7-6 Landscape Mitigation Design</b> of the ES [APP-061], the Environmental Masterplan, the Outline CEMP and the Manual of Contract Documents for Highways Works Series 3000 and Series 600. Monitoring of landscape planting.
L16	Post construction monitoring.
L17	Treatment and storage of topsoil including imported topsoil and topsoil depths.
<b>Biodiversity</b>	
B1	Habitat creation for the Scheme.
B2	Measures to achieve ecological enhancements.
B5	Pre-construction badger surveys.
B6	Timing of vegetation clearance and measures to be taken to protect bird species during vegetation clearance.
B7	Measures to protect red squirrel and their dreys.
B8	Measures to protect reptiles.

<b>REAC Reference</b>	<b>Action within the REAC Relates to:</b>
B9	Monitoring of the freshwater environment and associated consents.
B12	Tree felling to be carried out in a way to reduce impacts to flora and fauna.
B13	The use of fencing and barriers to protect habitats and fauna.
B15	Measures to protect trees assessed as having bat roost potential.
B18	The strategy for the treatment of Invasive Non-Native Species (INNS) and INNS Management Plan.
B19	Remediation of the area south of Allerdene Bridge to grassland.
B20	The protection of retained trees affected by construction will be in line with guidelines provided in BS 5837 Trees in relation to construction.
B22	Retention of deadwood and tree stumps to provide habitats for a wide range of species.
B23	Creation of species rich grassland habitat in the vicinity of waterbodies.
B26	Design of culverts to mitigate the effects of fragmentation of fish populations.
<b>Geology and Soils</b>	
GS2	Measures to minimise impacts on soil quality.
GS4	Measures to mitigate risks to human health (construction workers and surroundings site visitor/occupants).
GS5	Measures to minimise explosion risks associated with confined spaces.
GS6	Measures during construction to minimise risks associated with ground collapse and ground related structural damage.
<b>Material Resources</b>	
M1	Measures to be investigated during detailed design which have the potential to avoid and mitigate adverse impacts from material resources consumption, and the generation and disposal of waste.
M2	Reuse of material resources from Scheme demolition activities.
M5	Investigation of the potential reuse of materials on other schemes in the North East.
M6	A site waste management plan will be produced and maintained.
M7	Measures to maximise reuse of materials.
M8	Locally sourced materials and suppliers will be used where practicable.
<b>Noise and Vibration</b>	
N1	Installation of a Thin Surface Course System (TSCS) across the Scheme.
N4	Construction of a concrete centre reserve along the full length of the Scheme.
N5	Noise and vibration measures to be implemented during construction.
N6	Management and logging of environmental noise and vibration comments/complaints.
N7	Measures to be implemented to minimise construction generated



REAC Reference	Action within the REAC Relates to:
	vibration.
<b>Population and Human Health</b>	
PH5	Reinstatement of areas temporarily required for construction.
PH6	Retention of existing footpaths and walking, cycling and horse riding routes.
PH8	Measures to maximise the potential for the workforce and the project supply chain to be sourced locally.
PH9	The commitment that a CTMP will be put in place in line with the Outline CTMP.
PH11	Programming of construction works in consultation with Network Rail and rail operators.
PH12	Measures to be implemented to minimise impacts to agricultural land holdings.
<b>Road Drainage and the Water Environment</b>	
W1	An attenuation pond being provided in the location of the former A1 carriageway.
W3	The design of attenuation storage.
W4	The attenuation pond at outfall 8 to be designed to provide water quality benefits and treatment.
W5	Vortex grit separators to be incorporated into all outfalls.
W6	Cut-off drains to be constructed at the base of all new embankments along the road.
W7	Pollution control devices (penstocks) to be installed at specific locations.
W10	The replacement of Allerdene Culvert.
W12	Obtaining a Flood Risk Activities permit and Ordinary Watercourse consent for works affecting watercourses.
W13	Drawings and any relevant survey data being provided to Highways England.
W14	A temporary surface water drainage strategy being provided in the CEMP.
W15	Measures to be implemented during the construction phase to minimise impacts on water quality.
W16	The development of a temporary surface water drainage strategy to ensure that there will be no increase in runoff.
W17	Measures to be implemented to minimise the risks to the water environment associated with localised flooding during construction.
W18	Assessment of the potential for disruption to off-site field drainage prior to the commencement of works by the main contractor.
W19	The protection of culverts.

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