

# A1 Birtley to Coal House

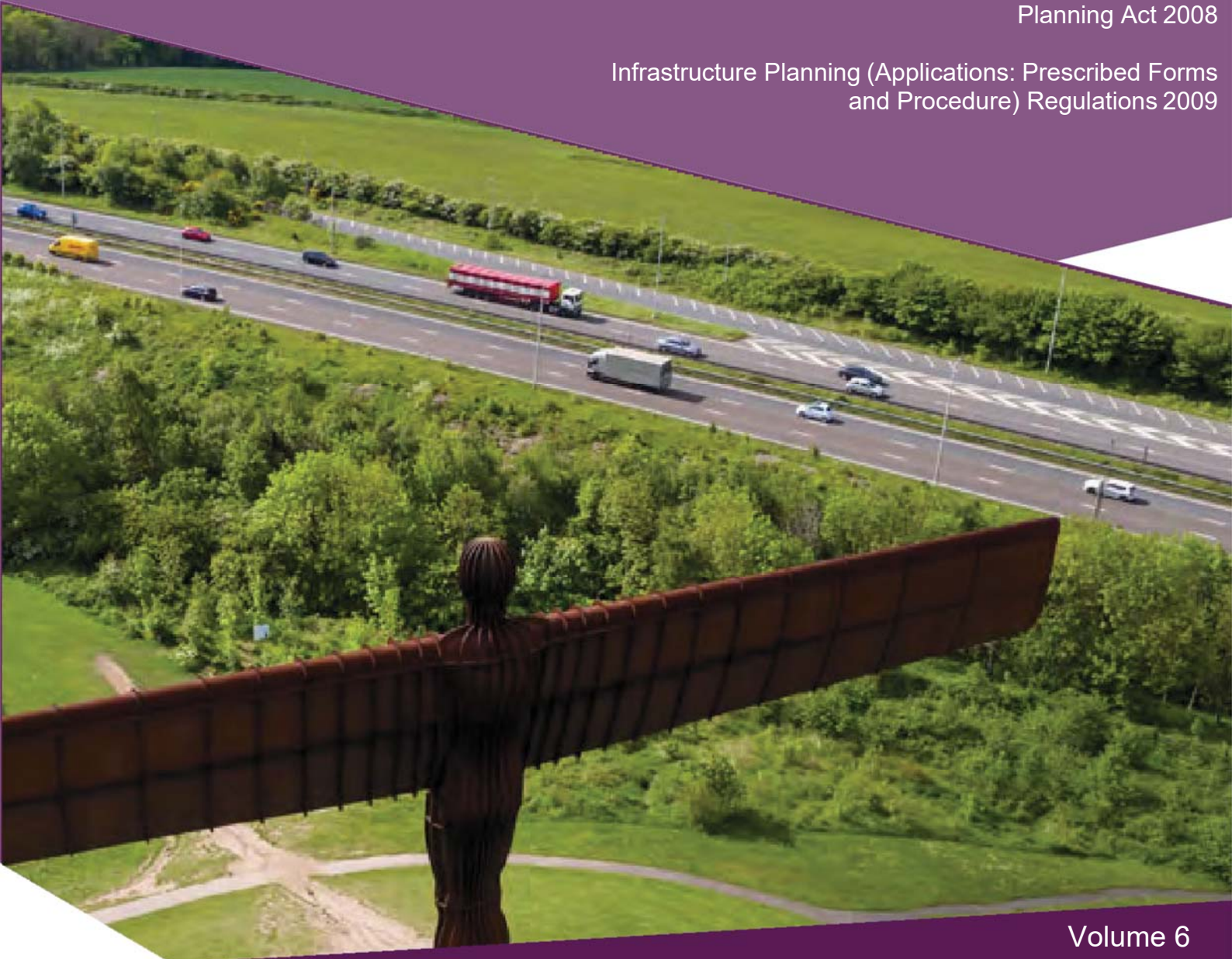
## Scheme Number: TR010031

### 6.3 Environmental Statement – Appendix 10.1 Material Resources

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms  
and Procedure) Regulations 2009



Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedures) Regulations 2009**

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

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**Environmental Statement -  
Appendix**

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<b>Regulation Reference:</b>	APFP Regulation 5(2)(a)
<b>Planning Inspectorate Scheme Reference</b>	TR010031
<b>Application Document Reference</b>	TR010031/APP/6.3
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<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 0	14 August 2019	Application Issue

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## 1. MATERIAL RESOURCES

1.1.1. The below tables provide a breakdown of material applications and waste arisings.

**Table 1-1 - Material application: Allerdene embankment option**

Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
Steel	Reinforcement	4,350	ROM	Sheffield	205
Steel	Bridge Beams	1,806	Cleveland Bridge UK	Darlington	50
Steel	Sheet Piling/ Retaining Structures	1,180	Sheet Piling UK	Preston	210
Steel	Gantries	315	Britons	Nottingham	250
Steel	Bridge Parapets	150	Varley and Gulliver	Birmingham	320
Steel	Safety Fencing	250	Hill and Smith	West Midlands	320
Steel	600NB 12.5mm w/t steel pipe (NGN works)	24	Unknown	Unknown	Unknown
Steel	450NB 9.5mm w/t steel pipe (NGN works)	6	Unknown	Unknown	Unknown
Steel	300NB steel pipe 9.5mm w/t (NGN works)	4	Unknown	Unknown	Unknown
Steel	200NB 8.5mm w/t steel pipe (NGN works)	1	Unknown	Unknown	Unknown
Aluminium	Lighting Columns	60	SAPA	Co Louth, Ireland	450

<b>Item</b>	<b>Use</b>	<b>Quantity (T)</b>	<b>Likely Supplier</b>	<b>Likely Source</b>	<b>Approximate distance from Scheme (km)</b>
Ductile Iron	Manhole Covers and Frames	40	Saint Gobain	Ilkeston	250
Timber	Fencing	180	Burn Fencing	Goole	180
Timber	Temporary Formwork	250	M H Southern	Jarrow	12
Aggregates	Drainage	15,200	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Road Construction	20,000	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Structural Fills	39,200	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Granular Drainage Layer	47,700	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Piling Platforms	23,850	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	MOT Type1 (NGN Works)	10,000	Unknown	Unknown	Unknown
Aggregates	6F2 (NGN Works)	10,000	Unknown	Unknown	Unknown
Earthworks	Imported Class 2 for Embankment	226,300	Unknown	Unknown	Unknown
Earthworks	Imported Topsoil	69,500	Unknown	Unknown	Unknown
Concrete	RC Structures	54,650	CEMEX	Newcastle Plant, Pottery	10

Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
				Lane, Newcastle on Tyne	
Concrete	Pavements	45,500	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	Drainage and Kerbing	2,780	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	Rigid Inclusions	92,600	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	CSB	3,350	Cemex/ Extrudakerb	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	NGN Works	1,000	Unknown	Unknown	Unknown
Cement	Grouting to Mine Workings	50,000	Lafarge	Unknown	Unknown
Precast Concrete Products	Drainage - Manholes	140	Stanton Bonna	Ilkeston	250
Precast Concrete Products	Kerbing	350	Marshalls	Maltby, Rotherham	195
Precast Concrete Products	Concrete Sleeves & caisson shaft (NGN Works	293	Unknown	Unknown	Unknown

Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
Plastics	Drainage pipes	90	Polypipe	Doncaster	175
Plastics	180NB HDPE pipe (NGN Works)	1	Unknown	Unknown	Unknown
Bituminous Products	Road Surfacing	124,900	Tarmac	Coxhoe Plant, Raisby Hill, Coxhoe	25
Bituminous Products	Tarmac (NGN Works)	2,000	Unknown	Unknown	
<b>Total</b>		<b>848,019</b>			

**Table 1-2 - Material application: Allerdene viaduct option**

Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
Steel	Reinforcement	4,800	ROM	Sheffield	205
Steel	Bridge Beams	5,906	Cleveland Bridge UK	Darlington	50
Steel	Sheet Piling/Retaining Structures	1,180	Sheet Piling UK	Preston	210
Steel	Gantries	315	Britons	Nottingham	250
Steel	Bridge Parapets	400	Varley and Gulliver	Birmingham	320
Steel	Safety Fencing	250	Hill and Smith	West Midlands	320
Steel	600NB 12.5mm w/t steel pipe (NGN works)	24	Unknown	Unknown	Unknown
Steel	450NB 9.5mm w/t steel pipe (NGN works)	6	Unknown	Unknown	Unknown

<b>Item</b>	<b>Use</b>	<b>Quantity (T)</b>	<b>Likely Supplier</b>	<b>Likely Source</b>	<b>Approximate distance from Scheme (km)</b>
Steel	300NB steel pipe 9.5mm w/t (NGN works)	4	Unknown	Unknown	Unknown
Steel	200NB 8.5mm w/t steel pipe (NGN works)	1	Unknown	Unknown	Unknown
Aluminium	Lighting Columns	60	SAPA	Co Louth, Ireland	450
Ductile Iron	Manhole Covers and Frames	40	Saint Gobain	Ilkeston	250
Timber	Fencing	180	Burn Fencing	Goole	180
Timber	Temporary Formwork	520	M H Southern	Jarrow	12
Aggregates	Drainage	15,200	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Road Construction	20,000	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Structural Fills	43,700	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	Piling Platforms	13,140	Tarmac	Thrislington East Quarry, Ferryhill	30
Aggregates	MOT Type1 (NGN Works)	10,000	Unknown	Unknown	Unknown
Aggregates	6F2 (NGN Works)	10,000	Unknown	Unknown	Unknown



Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
Earthworks	Imported Class 2 for Embankment	40,000	Unknown	Unknown	Unknown
Concrete	RC Structures	87,300	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	Pavements	45,500	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	Drainage and Kerbing	2,780	CEMEX	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	CSB	3,300	Cemex/Extrudakerb	Newcastle Plant, Pottery Lane, Newcastle on Tyne	10
Concrete	NGN Works	1,000	Unknown	Unknown	Unknown
Cement	Grouting to Mine Workings	50,000	Lafarge	Unknown	Unknown
Precast Concrete Products	Drainage - Manholes	140	Stanton Bonna	Ilkeston	250
Precast Concrete Products	Kerbing	350	Marshalls	Maltby, Rotherham	195
Precast Concrete Products	Concrete Sleeves &	293	Unknown	Unknown	Unknown

Item	Use	Quantity (T)	Likely Supplier	Likely Source	Approximate distance from Scheme (km)
	caisson shaft (NGN Works)				
Plastics	Drainage pipes	90	Polypipe	Doncaster	175
Plastics	180NB HDPE pipe (NGN Works)	1	Unknown	Unknown	Unknown
GRP	Permanent Formwork	420	EMJ	Filey, North Yorkshire	150
Bituminous Products	Road Surfacing	124,900	Tarmac	Coxhoe Plant, Raisby Hill, Coxhoe	25
Bituminous Products	Tarmac (NGN Works)	2,000	Unknown	Unknown	205
<b>Total</b>		<b>483,799</b>			

**Table 1-3 - Waste arising: Allerdene embankment option**

Item	Source	Quantity (T)	Likely Disposal Method	Likely Disposal Destination	Approximate distance from Scheme (km)
Timber	Existing Timber Fencing Removed during Site Clearance	180	Off site Recycling facility	JBT Waste, Birtley	3
Timber	Timber wastage on temporary Formwork	80	Off site Recycling facility	JBT Waste, Birtley	3
Earthworks Cut	Unsuitable Earthworks	10,168	Removed to landfill	Unknown	Unknown

Item	Source	Quantity (T)	Likely Disposal Method	Likely Disposal Destination	Approximate distance from Scheme (km)
	Materials Cut from Scheme (Class U1/2)				
Earthworks Cut	Class 4 material	50,806	Recovery and re-use off site	Unknown	Unknown
Earthworks	Earthworks-Arisings from Piling operations	2,375	95 % Re used on site as suitable fill	A1B2CH Site	0
		125	5% disposed to landfill	Landfill	Unknown
Earthworks	Earthworks-Arisings from Pile cap excavations	1,425	95 % Re used on site as suitable fill	A1B2CH Site	0
		75	5% disposed to landfill	Landfill	Unknown
Steel	Existing Safety Fencing Removed during Site Clearance	250	Off site Recycling facility	JBT Waste, Birtley	3
Steel	Existing Signage removed during site clearance	50	Off site Recycling facility	JBT Waste, Birtley	3
Steel	Existing structures to be demolished-Steel Beams	255	Off site Recycling facility	Thompsons of Prudhoe	20
Steel	Existing Structures to be	580	Off site Recycling facility	Thompsons of Prudhoe	20

Item	Source	Quantity (T)	Likely Disposal Method	Likely Disposal Destination	Approximate distance from Scheme (km)
	demolished-Steel Reinforcement				
Steel	Reinforcement wastage/cut offs on RC structures	15	Off site Recycling facility	JBT Waste, Birtley	3
Concrete	Concrete removed during demolition of structures	8,000	Crushed on site for use in hardstanding's or removed off site to recycling/crushing facility	Thompsons of Prudhoe	20
Concrete	Concrete Wastage on Piling	80	Removed off site to recycling/crushing facility	Thompsons of Prudhoe	20
Concrete	Concrete Wastage on RC structures	140	Removed off site to recycling/crushing facility	Thompsons of Prudhoe	20
Pavement-Road Planings	Road planings from cold milling Operations	52,530	Re used on site in lieu of imported capping materials or in piling platforms	A1B2CH Site	0
Pavement - Sub base	Sub base removed during pavement re construction	7,200	Re used on site in piling platforms or laydown areas	A1B2CH Site	0

Item	Source	Quantity (T)	Likely Disposal Method	Likely Disposal Destination	Approximate distance from Scheme (km)
Pavement - Concrete	Concrete removed during pavement construction	5,220	Crushed on site for use in hardstanding's or removed off site to recycling/ crushing facility	Thompsons of Prudhoe	20
Granular	Granular materials- Wastage from contamination of piling platforms and laydown areas	640	80 % Re used on site as suitable fill	A1B2CH Site	0
		160	20% disposed to landfill	Landfill	Unknown
Vegetation	Vegetation removed during site clearance	100	Mulched and spread on site or removed off site for mulching/ logging	A1B2CH Site	0
General Construction Waste	General waste generated during construction activities	1,500	Off site waste segregation facility	JBT Waste, Birtley	3
Miscellaneous hazardous waste	NGN Works	0.1	Assumed landfill	Unknown	Unknown
<b>Total</b>		<b>141,954</b>			

**Table 1-4 - Waste arising: Allerdene viaduct option**

<b>Item</b>	<b>Source</b>	<b>Quantity (T)</b>	<b>Likely Disposal Method</b>	<b>Likely Disposal Destination</b>	<b>Approximate distance from Scheme (km)</b>
Timber	Existing Timber Fencing Removed during Site Clearance	180	Off site Recycling facility	JBT Waste, Birtley	3
Timber	Timber wastage on temporary Formwork	120	Off site Recycling facility	JBT Waste, Birtley	3
Earthworks Cut	Unsuitable Earthworks Materials Cut from Scheme (Class U1/2)	10,168	Removed to landfill	Unknown	Unknown
Earthworks Cut	Class 4 material	40,675	Recovery and re-use off site	Unknown	Unknown
Earthworks	Earthworks-Arisings from Piling operations	9,595	95 % Re used on site as suitable fill	A1B2CH Site	0
		505	5% disposed to landfill	Landfill	Unknown
Earthworks	Earthworks-Arisings from Pile cap excavations	7,315	95 % Re used on site as suitable fill	A1B2CH Site	0
		385	5% disposed to landfill	Landfill	Unknown
Steel	Existing Safety Fencing Removed during Site Clearance	250	Off site Recycling facility	JBT Waste, Birtley	3

<b>Item</b>	<b>Source</b>	<b>Quantity (T)</b>	<b>Likely Disposal Method</b>	<b>Likely Disposal Destination</b>	<b>Approximate distance from Scheme (km)</b>
Steel	Existing Signage removed during site clearance	50	Off site Recycling facility	JBT Waste, Birtley	3
Steel	Existing structures to be demolished- Steel Beams	255	Off site Recycling facility	Thompsons of Prudhoe	20
Steel	Existing Structures to be demolished- Steel Reinforcement	580	Off site Recycling facility	Thompsons of Prudhoe	20
Steel	Reinforcement wastage/cut offs on RC structures	20	Off site Recycling facility	JBT Waste, Birtley	3
Concrete	Concrete removed during demolition of structures	8,000	Crushed on site for use in hardstanding' s or removed off site to recycling/ crushing facility	Thompsons of Prudhoe	20
Concrete	Concrete wastage on piling	320	Removed off site to recycling/ crushing facility	Thompsons of Prudhoe	20
Concrete	Concrete Wastage on RC structures	290	Removed off site to recycling/	Thompsons of Prudhoe	20

Item	Source	Quantity (T)	Likely Disposal Method	Likely Disposal Destination	Approximate distance from Scheme (km)
			crushing facility		
Pavement-Road Planings	Road planings from cold milling Operations	52,530	Re used on site in lieu of imported capping materials or in piling platforms	A1B2CH Site	0
Pavement - Sub base	Sub base removed during pavement re construction	7,200	Re used on site in piling platforms or laydown areas	A1B2CH Site	0
Pavement - Concrete	Concrete removed during pavement construction	5,220	Crushed on site for use in hardstanding' s or removed off site to recycling/ crushing facility	Thompsons of Prudhoe	20
Granular	Granular materials- Wastage from contamination of piling platforms and laydown areas	640	80 % Re used on site as suitable fill	A1B2CH Site	0
		160	20% disposed to landfill	Landfill	Unknown
Vegetation	Vegetation removed during site clearance	100	Mulched and spread on site or removed off site for mulching/ logging	A1B2CH Site	0



<b>Item</b>	<b>Source</b>	<b>Quantity (T)</b>	<b>Likely Disposal Method</b>	<b>Likely Disposal Destination</b>	<b>Approximate distance from Scheme (km)</b>
General Construction Waste	General waste generated during construction activities	1,620	Off site waste segregation facility	JBT Waste, Birtley	3
Miscellaneous hazardous waste	NGN Works	0.1	Assumed Landfill	Unknown	Unknown
<b>Total</b>		<b>146,178</b>			

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