

A417 Missing Link TR010056

6.7 Environmental Statement - Updates and Errata (Rev 1)

Planning Act 2008

APFP Regulation 5(2)(a) Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6

January 2022

Infrastructure Planning

Planning Act 2008

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

A417 Missing Link

Development Consent Order 202[x]

Environmental Statement - Updates and Errata (Rev 1)

Regulation Number:	5(2)(a)
Planning Inspectorate	TR010056
Scheme Reference	
Application Document Reference	6.7
Author:	A417 Missing Link

Version	Date	Status of Version
C01	May 2021	Application Submission
C02	January 2022	Deadline 2

Table of contents

		Pages
1 Introdu	uction	1
2 Enviro	nmental Statement Updates	1
3 Enviro	nmental Statement Errata	9
Table of T	ables	
Table 2-1	Environmental statement chapter updates	2
Table 3-1	Environmental statement chapter errata	10
Table 3-2	Environmental statement chapter updates and errata – Deadline 2	14

1 Introduction

1.1 Purpose of this document

- 1.1.1 This document (Document Reference 6.7) has been prepared to detail updates to and errata in the Environmental Statement (ES) (Document Reference 6.2, APP-032 to APP-049) for the A417 Missing Link (hereafter referred to as 'the scheme'), which was submitted as part of the Development Consent Order (DCO) application in June 2021.
- 1.1.2 It is intended that during the Examination, further points of clarification or amendments which arise through (but not limited to) the Written Questions, Written Representations and the Issue Specific Hearings would be added to this document which would remain live throughout. It will be submitted, where appropriate, at each of the prescribed Deadlines as set out by the Planning Inspectorate.
- 1.1.3 A strikethrough has been used for text which is now removed from the appropriate chapter and section of ES chapters, whilst text in red is new and altered text.

2 Environmental Statement Updates

2.1.1 Table 2-1 Environmental statement chapter updates has been produced to detail any amendments, including updates, to the ES (Document Reference 6.2, APP-032 to APP-049) which have been identified through the Examination and provides updates and amendments as appropriate.

 Table 2-1
 Environmental statement chapter updates

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 1 Introduction (APP-032)	Paragraph 1.3.16 of National Planning Policy Framework to be updated in line with the revised National Planning Policy Framework published in July 2021.	Paragraph 1.3.16 of ES Chapter 1 - Introduction is amended to: In addition, the NPPF originally published in March 2012 and most recently updated in June 2019 July 2021, sets out the government's planning policies for England and provides a framework within which locally prepared plans can be produced. The NPPF is 'an important and relevant' matter to be considered in decision making for NSIPs. The NPPF is supplemented by the Planning Practice Guidance (PPG) web-based resource launched in February 2014. The PPG is updated by the Ministry of Housing, Communities and Local Government as necessary.
Volume 6.2 Environmental Statement Chapter 14 Climate (APP- 045)	Paragraph 14.3.3 to be updated for the sixth carbon budget.	Paragraph 14.3.3 of ES Chapter 14 is amended to: The Climate Change Act 2008 requires that five-yearly carbon budgets are set and not exceeded to ensure that regular progress is made towards the target. The first three carbon budgets were set in 2009, with the fourth and fifth following in 2011 and 2016 respectively, as outlined in Table 14-1. The UK Government agreed with the recommendation from the Climate Change Committee on the sixth carbon budget on Tuesday 20 April 2021. The stated intention is that this new target will be enshrined in UK law by the end of June 2021. The sixth carbon budget was legislated for in June 2021.
Volume 6.2 Environmental Statement Chapter 14 Climate (APP- 045)	Paragraph 14.3.4 to be updated for the Carbon Budget Order 2021.	Paragraph 14.3.4 of ES Chapter 14 is amended to: The third, fourth and fifth carbon budgets, as set out in the Carbon Budgets Order 2009, the Carbon Budget Order 2011 and the Carbon Budget Order 2016, are based on an 80% reduction as legislated by the Climate Change Act 2008. The recommended sixth carbon budget as set out in the Carbon Budget Order 2021, is based on the target for 100% reduction in emissions by 2050, it requires a 78% reduction in GHG emissions between 1990 and 2035. GHG emissions from the scheme are reported against the latest legislated carbon budgets, in line with the requirements of DMRB LA 114 and the NPSNN (Paragraph 5.17).

Document reference	Reason for amendment to the ES	Amendment to the ES					
Volume 6.2 Environmental Statement Chapter 14 Climate (Document Reference 6.2, APP- 045) to include the sixth carbon budget (2033 - 2037) and to show the reduction below 1990 levels. Table 14-1 UK third, fourth and fifth	Table 14-1 of ES Chapter 14 Climate (Document Reference 6.2, APP- 045) is amended to include the 6th carbon budget. Table 14-1 UK third, fourth, and fifth and sixth carbon budgets (as legislated by the Climate Change Act 2008 and set out in the Carbon Budget Order 2009, the Carbon Budget Order 2011, and the Carbon Budget Order 2016 and the Carbon Budget Order 2021)						
	carbon budgets (as legislated by the Climate Change Act 2008 and set out in the Carbon Budgets Order 2009, the Carbon Budget Order 2011 and the	Carbon budget	Carbon budget level Million tonnes of carbon dioxide equivalents (MtCO₂e)	Reduction below 1990 levels			
	Carbon Budget Order 2016)	Third carbon budget (2018 - 2022)	2,544 MtCO₂e	37% by 2023			
		Fourth carbon budget (2023 - 2027)	1,950 MtCO₂e	51% by 2025			
		Fifth carbon budget (2028 - 2032)	1,725 MtCO₂e	57% by 2030			
		Sixth carbon budget (2033 - 2037)	965 MtCO₂e	78% by 2035			

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental	Decarbonising transport: a better, greener Britain	14.3 Legislative and policy framework
Statement Chapter 14	On 14th July 2021, the Department for Transport (DfT) published Decarbonising	Add under National policy heading.
Climate (APP- 045)	transport: a better, greener Britain, a plan to decarbonise the entire transport system	Decarbonising transport: a better, greener Britain
	in the UK. Section 14.3 Legislative and policy framework to include new policy.	The decarbonisation plan sets out the Government's commitments and the actions needed to decarbonise the entire transport system in the UK. This plan considers GHG emissions produced from use of the UK's transport system and details how the UK will enhance resilience to climate change risks across road, rail, ports, and aviation, harbour authorities and road and rail organisations.
		The decarbonisation plan outlines a number of commitments by the Government to remove all emissions from road transport to achieve net zero target by 2050.
		Commitments that will have a direct impact on road user emissions from the Scheme will include:
		 An end to the sale of new petrol and diesel cars and vans by 2030 All new cars and vans to zero emissions at the tailpipe by 2035 All new L-category vehicles to be fully zero emissions at the tailpipe by 2035 The end of the sale of all non-zero emissions HGVs by 2040
		In addition, the Government is providing support for at least 4,000 zero emission buses and has committed to holding a consultation on a date to end the sale of new non-zero emissions motorbikes.
		This plan states that major infrastructure projects outlined in the "ambitious roads programme reflects – and will continue to reflect – that in any imaginable circumstances the clear majority of longer journeys, passenger, and freight, will be made by road; and that rural, remote areas will always depend more heavily on roads." This supports the Road Investment Strategy (RIS2) which this project sits within.

Document reference	Reason for amendment to the ES	Amendment to the ES
	Reason for amendment to the ES Net zero highways: Our 2030 / 2040 / 2050 plan On 20th July 2021, National Highways published its Net zero highways: our 2030 / 2040 / 2050 plan. This responds to the government's Decarbonising transport: a better, greener Britain. Section 14.3 Legislative and policy framework to include new policy.	Add under National policy heading. Net zero highways: Our 2030 / 2040 / 2050 plan Net zero highways: our 2030 / 2040 / 2050 plan, responds to the Government's Decarbonising Transport: A Better, Greener Britain. The plan sets out how England's motorways and A-roads will be decarbonised, so they can continue to bring significant benefits to people and businesses in a net-zero economy. National Highways recognises that it has a key role in the development and maintenance of a strategic road network that will facilitate the journey to net zero emissions. The plan maps how the company will progress rapidly in this area, focusing on innovation and zero carbon solutions while using offset only as a very last resort. In summary: By 2025: National Highways has made a Greening Government Commitment to reduce its own carbon emissions by 75% compared with the 2017/18 baseline. By 2030: National Highways will be net-zero for its own carbon emissions. This includes switching to light-emitting diode (LED) lighting, changing its vehicle fleet to electric and planting up to 3 million additional trees on its own land next to roads. By 2035: National Highways will bring together best practice and latest technologies to construct the first net-zero road scheme. By 2040: All construction and maintenance activities carried out on the strategic road network will be net-zero.
		By 2050: The vehicles on the strategic road network will be zero emission.

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 14 Climate (APP- 045)	Paragraph 14.4.21 to be updated for the sixth carbon budget (2033 - 2037).	Paragraph 14.4.21 of ES Chapter 14 is updated to include the 6th carbon budget: An estimate of the likely magnitude of GHG emissions associated with the scheme has been assessed against the legislated national UK carbon budgets. The UK Government has currently passed into law carbon budgets up to 2032: • The third carbon budget period (2018 to 2022) allows the UK to emit 2,544 MtCO ₂ e. • The fourth carbon budget (2023 to 2027) allows the UK to emit 1,950 MtCO ₂ e. • The fifth carbon budget (2028 to 2032) allows the UK to emit 1,725 MtCO ₂ e. • The sixth carbon budget (2033 - 2037) allows the UK to emit 965 MtCO ₂ e.

Document reference	Reason for amendment to the ES	Amendment to the ES						
Volume 6.2 Environmental Statement	Table 14-18 Assessment of scheme net emissions (up to 2032) against UK Government carbon budgets to reflect	Table 14-18 Ass Government ca		eme net emissions	(up to 2 (<mark>)32</mark> 2037) a	against U	IK
Chapter 14 Climate (APP- 045)	the sixth carbon budget is now included in the assessment.	Project stage	Estimated total (cumulative) GHG emissions	GHG emissions over carbon		cumulative sions per i budget	relevant o	
			over carbon budgets (tCO₂e) ('Do-Something' scenario)		Third (2018 - 2022)	Fourth (2023 - 2027)	Fifth (2028 - 2032)	Sixth ⁴ (2033 - 2037)
		Construction (over a period of 42 months, assumed to commence in early 2023- 2026)	74,114	74,114	n/a	74,114	n/a	n/a
		Operation (modelled from 2026 through to 2037)	2,373,212	152,565	n/a	22,158	61,196	69,211
		Total	2,447,356	226,709	n/a	96,302	61,196	69,211
		¹ -The sixth carbo law by June 202	•	n committed to by g	overnme	nt and is ex	xpected to	become

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 14 Climate (APP- 045)	Paragraph 14.10.12 to reflect the sixth carbon budget is now included in the assessment.	Paragraph 14.10.12 If the DCO is granted, construction is expected to start in early 2023 and the scheme is expected to be open to traffic in 2026. Therefore, the construction period for the scheme falls wholly within the fourth carbon budget. Operation of the scheme would commence in 2026 and is assessed against the fourth, and fifth and sixth carbon budgets, up to 2032 2037. Operational and maintenance emissions between 2033 and 2037 (the period for the sixth carbon budget) are provided in Table 14-18, however emissions after 2032 are not assessed as this new target has yet to be legislated. The UK Government has indicated it intends to enshrine the sixth carbon budget in UK law by the end of June 2021.
Volume 6.2 Environmental Statement Chapter 14 Climate (APP- 045)	Paragraph 14.10.13 to reflect the sixth carbon budget is now included in the assessment.	Paragraph 14.10.13 Significant effects The construction and operation phases of the scheme which fall within legislated carbon budget periods are expected to have an insignificant impact on the ability of the UK Government to meet its carbon budgets. Construction of the scheme is estimated to contribute approximately 0.00380% of the fourth carbon budget. Operation of the scheme is estimated to contribute approximately 0.00114% of the fourth carbon budget, and 0.00355% of the fifth carbon budget and 0.00717% of the sixth carbon budget. It is considered that this magnitude of emissions from the scheme in isolation would not have a material impact on the ability of the UK Government to meet its carbon budgets, and therefore is not anticipated to give rise to a significant effect on climate, in line with the position set out within Section 5.18 of the NPSNN.

3 Environmental Statement Errata

- 3.1.1 Table 3-1 Environmental statement chapter errata has been produced to detail any errors or omissions within the ES which have been identified through the Examination and provides corrections as appropriate.
- Table 3 4 Environmental statement chapter updates and errata Deadline 2 has been produced to detail any errors or omissions within the ES which have been identified at Deadline 2 of the Examination and provides corrections as appropriate.

Table 3-1 Environmental statement chapter errata

Document reference	Reason for amendment to the ES				Am	nendment to the	e ES				
Volume 6.2 Environmental Statement Chapter 2 – The Project (APP-033)	Paragraphs 2.5.7 to 2.5.10 provides detail on the expected future baseline scenario, including expected changes to landscape, ecological and heritage assets, and climate change. However, there is no mention of the future baseline of flood risk, although this is assessed within ES Chapter 13 Road Drainage and the Water Environment (Document Reference 6.2, APP-044).	Based on the curr change, such as s in ES Chapter 4 E changes to road d	Paragraph 2.5.10 of ES Chapter 2 – The Project is amended to: lassed on the current land use, the future baseline in the absence of the scheme is unlikely to change significantly by 2041. Subtle changes are expected due to climate hange, such as some movements of certain species and local population changes; however, the overall habitats and species composition in the study area (as defined in ES Chapter 4 Environmental Assessment Methodology (Document Reference 6.2)) are expected to be broadly similar to that of the existing baseline. Potential hanges to road drainage and water environment receptors in the future would not be noticeable, as discussed in Chapter 13 Road Drainage and the Water invironment (Document Reference 6.2). Therefore, the future baseline would remain the same as set out in the existing baseline.								
	Paragraph 5.10.30 erroneously reports that Receptor 17 has the largest increase in concentration as 0.6 ug/m³, instead of 0.9 ug/m³.	Receptors 17, 19	aragraph 5.10.30 of ES Chapter 5 is amended to: eceptors 17, 19 and 22 are located in the Cheltenham AQMA. Receptor 17 has the largest increase in concentration (0.6 0.9μg/m³) as a result of the scheme. The ghest predicted concentration due to the scheme in the Cheltenham AQMA is at receptor 22 (31.6μg/m³). There are no modelled exceedances in the Cheltenham OMA								
Volume 6.2 Environmental Statement Chapter 5 Air Quality (APP-APP-036)	Paragraph 5.10.24 - omission of Receptor 71 from discussion of results.	In this discussion local authority mo 61µg/m3 was record the road. There are risk of exceedance	Paragraph 5.10.24 of ES Chapter 5 is amended to: In this discussion region eight nine receptors (see Table 5-6) have been selected to represent the scale of impacts associated with the scheme. Scheme-specific and local authority monitoring showed that roadside concentrations of annual mean NO2 in the Birdlip AQMA were above the AQO. A maximum monitored concentration of 61µg/m3 was recorded at the roadside of the Air Balloon roundabout. It is not representative of receptor exposure in this location as properties are set back further from the road. There are no predicted exceedances of the NO2 annual mean objective in the baseline scenario at any of the receptor locations. There are two receptors at risk of exceedance at the Air Balloon Cottages (receptors 50 and 51). Receptor 71 shows a high rate of change (2.7 ug/m³). Although the annual mean NO2 concentrations still remain below the relevant air quality threshold and therefore there is no likely significant effect in accordance with DMRB LA105.								
Volume 6.2 Environmental Statement Chapter 5 Air	-										
Quality (APP-APP-036)	Omission of Receptor 71 from Table 5-6.	Receptor		Reference (m)	Figure sheet reference		nual mean NO2 (µg		Change (DS-DM) (μg/m3)	AADT change	
		46	X 394545	213635	20	2016 Base 25.7	2026 DM 22.9	2026 DS 12.6	-10.4	-16,448	
		50	393450	216124	9	43.2	39.9	23.6	-16.4	8,286	
		51	393457	216129	9	42.7	39.1	22.8	-16.3	8,286	
		53	393752	215136	9	10.7	8.6	9.5	0.8	2,235	
		55	393391	215756	9	23.1	19.5	13.6	-5.9	-14,681	
		71	393869	215412	9	10.7	8.6	11.3	2.7	45,149	
		73	394208	215344	9	10.1	8.2	10.2	2.0	43,054	
		96	392879	215807	9	25.3	22.8	22.4	-0.4	8,286	
		99	392968	215759	9	17.7	15.3	17.2	1.9	8,286	
Volume 6.2 Environmental Statement Chapter 6 – Cultural Heritage (APP- 037)	Paragraph 6.7.2 states an erroneous distance of 70m between the proposed scheme and Emma's Grove. This should be 50m.	Paragraph 6.7.2 of One designated rebarrows, known co	esource lies withi	n the DCO Bounda	ary, but outside of the for 1017079). This resour	ootprint of the so	cheme. This sci proximately 7 0	neduled monul m 50m to the s	ment consists of a grou south of the scheme at	o of three round ts closest point.	

Document reference	Reason for amendment to the ES Amendment to the ES											
Volume 6.2 Environmental	Table 6-6 Scheduled monuments (high value)											
Statement Chapter 6 –	Table 6-6 states an erroneous		able 6-6 Scheduled monuments (high value)									
Cultural Heritage (APP-037)	distance of 80m between the proposed scheme and Emma's	NHLE No.	Name	Distance from scheme	Setting	Nature of impact	Magnitude of impact	Significance of effect				
037)	Grove. This should be 50m.	1017079	Three bowl barrows, known as Emma's Grove barrows The barrows are located immediately to the east of the 'Air Balloon' roundabout and are hidden within a small copse. The wider setting of the barrows comprises an undulating rural landscape, featuring a mixture of historic and modern fields, boundaries, tracks and woodlands. The topography is such that long distance views are rare and this sense of hiddenness and discovery as an observer moves through the landscape, encountering other contemporary prehistoric monuments as they appear in view, is a key aspect of setting that adds to its significance. This 'mind visibility' is likely to have been important to the builders of the barrow is sensitive to changes to the landform within this setting, regardless of whether these changes are visible. Three bowl barrows, the scheme would alter the immediate setting of the barrows, although this would be ameliorated slightly by the removal of the Existing A417 immediately to the west. The scheme would remarks and entire to the wider rural landscape within which these barrows sit. This wider rural setting, which contains a number of other prehistoric funerary monuments, provides context to the barrow, of which the concept of movement through the landscape is a key aspect. The scheme would create a physical barrier in the landscape that would be highly intrusive in the setting of the barrows and as a result adversely affect the significance of the resource. This would equate to a moderate adverse effect according to the criteria in Table 6-4.									
Volume 6.2 Environmental Statement Chapter 8 Biodiversity (APP-039)	Paragraph 8.9.32 requires revision as it understates the total amount of woodland created by the scheme.	A total of Appl the new A417 the scheme for borders of a fi	9.32 of ES Chapte roximately 7.5ha of from Brockworth to the benefit of bareld to the south of	r 8 is amended f new broadlead to the Crickley F t species. Mixed Ullen Wood. Th	area of woodland loss). to: yed woodland species of native variety ch dill area to replace woodland lost during of the broadleaved woodland and a buffer of so his would provide a woodland edge buffer rove to create a tiered buffer of vegetation	onstruction and to ensure continuity of wo crub species of approximately 5ha in area for the ancient woodland. Similarly, addi	oodland habitat a a would also be	along this section of planted round the				
Volume 6.2 Environmental	Table 8-6 Summary of field survey methods used for each		e 8-6 is amended		used for each type of biodiversity reso	uree relevant to the coheme						
Statement Chapter 8 Biodiversity (APP-039)	type of biodiversity resource relevant to the scheme	Biodiversity survey	Field surve		Dates of survey	Reference/ Appendix						
	Table 8-6 should clarify what time of year the Extended Phase 1 Habitat survey was undertaken.	Extended Phase 1 habitat survey	Habitats within the st mapped, and potenti notable species esta the standard JNCC r	al for protected and blished following		ES Appendix 8.1 (Document Reference 6.4), and the 2017 Preliminary Ecological Appraisal report ²⁴ .						
Volume 6.2	Paragraphs 9.10.25 and 9.10.33	Daragraph 0	10 25 of ES Chant	er 0 is amende	1 to:							
Environmental Statement Chapter 9 –	contain an error where the significance of effect on surface water is reported as 'neutral and permanent slight adverse', when it should have been reported as	Although the Tier 2: GQRA have identified localised areas where elevated contamination levels may pose a risk to the controlled water receptors application of essential mitigation no significant effects on controlled waters during construction have been identified. Therefore, overall the effect from contamination on groundwater during construction is assessed as neutral and slight adverse and not significant. For surface water this is ass										

Document reference	Reason for amendment to the ES				Amend	dment to the ES							
Volume 6.2	Table 9-9 Summary of effects	Table 9-9 of ES Chapter 9	is amended as	follows.									
Environmental	during construction	Table 9-9 Summary of ef	fects during c	onstruction									
Statement Chapter 9 – Geology and Soils (APP- 040)	Table 9-9 contains an error where the receptor sensitivity of the Tributary of Norman's Brook was	Potential impact	Receptor	Description	Receptor sensitivity	Desiç	gn and mitigation mo	easures	Magnitude of impact	Residual significance of effect			
	reported as 'medium', when it should have been reported as	Contaminated soil, leachate/ groundwater/ direct discharge	Groundwater	Inferior Oolite and Great Oolite - Principal Aquifers	High	available information o	on potential sources in	er 2: GQRA, informed by cluding desk study, and	Negligible	Slight adverse			
	'high'. Table 9-9 contains an error where	and pollution of aquifers Vertical and lateral migration of		Superficial deposits - Secondary A aquifer	Medium	ground investigations (and groundwater chem concern have been ide	nical testing) have been	en completed. Areas of	Negligible	Neutral			
	I	leachate/ groundwater contamination and/or direct		Lias Group - Secondary (undifferentiated) aquifer	Low		sments, remediation measures may be e presented in a remediation strategy.		Negligible	Neutral			
		Contact with soil contamination Contaminated soil, leachate/ groundwater/ direct discharge and impact on surface watercourses Pollution migration through new drainage installed as part of slope stabilisation measures Pollution migration along piles/ underground structures	Surface water	Tributary of Horsbere Brook	Medium	EMP (ES Appendix 2.1 appropriate hazardous response and environn	ne impact would be controlled through measures set out in the MP (ES Appendix 2.1 EMP (Document Reference 6.4)) including propriate hazardous materials storage and handling, pollution sponse and environmental management, materials management			Neutral Slight adverse			
				Tributary of Norman's Brook	Medium High	and dealing with known and unexpected contamination. Pollution control systems would be targeting areas of concern identified through the risk assessments. The drainage design would prevent/reduce the risk of discharging		Negligible	Neutral Slight adverse				
				River Frome and its tributaries	High	surface water runoff at	ollutants into the aquifers via drainage pathwa urface water runoff at its source. Further detal esign are reported in Appendix 13.10 Drainag eference 6.4).		Negligible	Slight adverse			
				Tributary of River Churn		associated MMP (ES A Plan (Document Refer suitable for end use, i.e	ials reused within the scheme in accordance with EMP an iated MMP (ES Appendix 2.1 Environmental Managemen Document Reference 6.4)) and therefore only materials le for end use, i.e. those that would not pose an unaccept controlled waters, would be reused.		Negligible	Neutral Slight adverse			
						FWRA to be completed for individual struct foundations or ground improvement works confirmed subject to the design at detailed		re proposed, to be					
Volume 6.2		Table 9-10 of ES Chapter 9 is amended as follows.											
Environmental		Table 9-10 of E3 Chapter 9 is afficied as follows. Table 9-10 Summary of effects during operation											
Statement Chapter 9 – Geology and Soils (APP- 040)		Potential impact			ption	Receptor sensitivity	Design and Mitigation measures	Magnitude of impac		nificance of ect			
	Secondary (undifferentiated	Exposure to soil contamination	On-site user	Maintenance workers		Medium	N/A	Negligible	Slight beneficial				
	aquifer)" as groundwater receptors			Highway users		Low	_	No change	Neutral				
	during the operational phase of the scheme.		Off-site user	71 '		Very High	_	No change	Neutral				
	Table 9-10 contains an error where		:	WCH (Public open space	,	High	NI/A	Negligible	Slight beneficial				
	the receptor sensitivity of the	Leaching and migration of contam due to rainwater infiltration from so	oils	r Inferior Oolite and Great Aquifer	Oolite – Principal	High	N/A	Negligible	Slight adverse				
	Tributary of Norman's Brook was	used in construction to groundwat and lateral migration to surface wa		Superficial deposits – Se	condary A aquifer	Medium	7	Negligible	Slight adverse				
	reported as 'medium', when it should have been reported as	areas of landscaping Surface run-off to surface water in		Lias Group – Secondary aquifer)	(undifferentiated	Low		Negligible	Neutral				
	'high'. Table 9-10 contains an error where the residual significance of effect was reported as 'neutral' for the	areas of landscaping from soils us construction	sed in Surface water	Tributary of Horsebere B	rook	Medium		Negligible	Neutral Slight adverse				
				Tributary of Norman's Br	ook	Medium High		Negligible	Neutral Slight adverse				
	Tributary of Horsbere Brook,			River Frome and its tribu	taries	High		Negligible	Slight adverse				
	Tributary of Norman's Brook and the Tributary of River Churn, when it should have been reported as			Tributary of River Churn		Medium		Negligible	Neutral Slight adverse				
	'slight adverse'.												

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 13 Road Drainage and the Water Environment (APP-044)	Paragraphs 13.5.7 omitted to include the nine months of surface water quality and flow data, between August 2020 and April 2021.	Paragraphs 13.5.7 of ES Chapter 13 is amended to: The findings presented in this chapter are based upon the data available at the time of writing including data collected to end of October 2020 for groundwater and December 2020 for surface water and springs and nine months of surface water quality and flow data, between August 2020 and April 2021. Any data collected following these dates would be used to refine the conceptual models to support the detailed design phase and would form part of the ongoing dialogue with the EA and others.
Volume 6.2 Environmental Statement Chapter 13 Road Drainage and the Water Environment (APP-044)	Paragraph 13.5.13 requires revision to provide clarity that the determination of groundwater conditions across the scheme is with exception of two areas, Ch.0+000 to CH. 0+500 and CH.2+100 to 2+600.	Paragraph 13.5.13 of ES Chapter 13 is amended to: The intrusive ground investigations field work to determine the site-specific ground conditions across the majority of the scheme have now been completed and groundwater monitoring is currently ongoing, due for completion by end of June 2021. These are described in section 13.7 Baseline conditions. This is with an exception of scheme section approximately Groundwater monitoring was not completed in two sections of the scheme alignment: Ch.0+000 to CH. 0+500 and CH.2+100 to 2+600. Ch. 0+500 was not monitored as the scheme does not require significant excavations in this section (see para 13.5.14 for further details). Ch. 2+100 to 2+600 was not monitored due to, where no land access was granted at the time of the field works. Ground investigations commenced in February 2021 and were completed in March 2021. Subsequent groundwater monitoring will continue until March 2022. Information obtained from these investigations will be considered at detailed design. Based on the hydrogeological conceptual model derived for the scheme informed by groundwater monitoring data obtained from scheme sections located on either end of the non-investigated section, the scheme would not intercept groundwater as the groundwater table is at least 30m below the scheme. Therefore, the available information on groundwater levels is considered sufficient to inform the assessments.
Volume 6.2 Environmental Statement Chapter 13 Road Drainage and the Water Environment (APP-044)	Paragraph 13.10.14 requires clarity as to the reason behind reporting the sensitivity of Tributary of Norman's Brook as 'high', instead of 'medium' value, even though it is not designated as a WFD catchment.	Paragraph 13.10.14 of ES Chapter 13 is amended to: With the sensitivity of the receptor being high, and magnitude of impacts of negligible, the effect would be slight adverse and not significant. A precautionary approach has been taken, assigning the watercourse a value of high based on the potential for species protected under legislation.

Table 3-2 Environmental statement chapter updates and errata – Deadline 2

Document reference	Reason for amendment to the ES				Amen	dment to the ES	•						
olume 6.2 nvironmental tatement Chapter 5 –	Questions (PD-008) Question 1.2.5	Additional Air Quality Monitoring Data as submitted in Appendix B in the Response to the Examining Authority's Written Questions (Document Reference 8.4, REP1-009): Table 1 Details of PM10 and PM2.5 local authority monitoring sites											
r quality	Chapter 5 [APP-036], in relation the PM10 and PM2.5, be	Local Authority an		Site Classification		National	grid references						
	published and made available to the Examination?"	Local Authority an	u ib	Site name	31	One ondomounou		X	Y				
	Background PM10 concentrations for 2017 the baseline year	Stroud Hardwicke	Hardwick	 e	Surbur	ban	3802		212842				
	are shown in Table 1-5 of Environmental Statement (ES) Appendix 5.4 Air quality baseline data (Document Reference	Stroud Haresfield	Haresfield		Rural		3813		210015				
	6.4, APP-336).		I										
	No forther particulate magitaring (DNAC) or DNC 5) was	Table 2 Local author	rity monitoring re	ring results for PM ₁₀									
	No further particulate monitoring (PM10 or PM2.5) was included in the ES as the assessment of PM10 and PM2.5 was	Local Authority	Site name			Nati	onal grid	references					
	scoped out at the scoping stage as the total concentrations in	and ID		2015	201	2016 2017		2018	2019				
	the study area are well below the relevant air quality objectives.	Stroud Hardwicke	Hardwicke	N/A	N/A	1	I/A	9.9	10.1				
	However, further monitoring results have been submitted as Appendix B in the Response to the Examining Authority's	Stroud Haresfield	Haresfield	N/A	N/A	1	I/A	9.9	8.6				
	Written Questions (ExQ1) (Document Reference 8.4, REP1-												
	009).	Table 3 Local author	rity monitoring re	esults for PM:	2.5								
		Local Authority	Site name				onal grid	references					
		and ID		2015	201	2016 2017		2018	2019				
		Stroud Hardwicke	Hardwicke	N/A		N/A N/A		7.1	6.4				
		Stroud Haresfield	Haresfield	N/A	N/A	1	I/A	7.1	5.8				
		Table 4 Duadiated D	Ma - b - alconod			. for 2040							
		Table 4 Predicted P Local Authority	M2.5 Dackground	pollutant con	icentrations	Annual mean PM2.5 concentration							
		Local Authority				(µg/m3)							
						Max		Min	Average				
		Cheltenham Boroug	h Council			10.3			9.2				
		Cotswold District Co	uncil			10.4							
		Gloucester City Cou	ncil			11.1		9.8					
		South Gloucestershi	re District Council			10.9		7.4	8.2				
		Stroud District Coun		10.6		7.5	8.3						
		Swindon Borough C		11.3		8.4	9.4						
		Tewkesbury Boroug		10.7		7.9	8.6						
				11.5		8.3	9.2						
		West Berkshire Cou				11.1 8.2							
		West Berkshire Cou West Oxfordshire Di				11.1		8.2	9.1				

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 5 – Air quality (APP-036)	Paragraph 5.1.1 Paragraph 5.1.1 under Section 5.11 Monitoring should be labelled correctly as 5.11.2.	Paragraph 5.1.1 of ES Chapter 5 – Air Quality is amended to: Paragraph 5.11.42.
Volume 6.2 Environmental Statement Chapter 5 – Air quality (APP-036)	Additional paragraph under Section 5.11 Monitoring required to reflect the need for operational monitoring of Ullen Wood Ancient Woodland and Veteran Trees (VT VT13, VT21, VT43 and VT98), in response to the Joint Council's Statement of Common Ground (see the Statement of Commonality, Appendix A (Document Reference 7.3, REP1-006).	New Paragraph 5.11.3 added for ES Chapter 5 – Air Quality: Air quality monitoring would be undertaken at appropriate locations to determine emissions during operation of the scheme and confirm the impact on Ullen Wood Ancient Woodland and veteran trees. Monitoring would be undertaken for 1 year from the first full year of operation. Should monitoring identify poorer air quality, remedial action would be required.
Volume 6.2 Environmental Statement Chapter 6 – Cultural heritage (APP- 037)	Paleoenvironmental Deposits- Examining Authority's Written Questions (PD-008) Question 1.7.8: "In paragraph 6.8.7 of ES Chapter 6 [APP-037] there is reference to paleoenvironmental deposits being affected by hydrological changes. There are however no further references to this within the context of this ES Chapter (other than a brief mention at 6.10.17 discounting any effect). Why is this considered sufficient consideration of the matter and please explain any effects?" The reference to impacts to paleoenvironmental deposits in Chapter 6 Cultural heritage -paragraph 6.8.7 is erroneous, as confirmed within the Response to the Examining Authority's Written Questions (ExQ1) (Document Reference 8.4, REP1-009).	Paragraph 6.8.7 of ES Chapter 6 – Cultural Heritage is amended to: Construction of the scheme has the potential for adverse impacts upon cultural heritage resources, including: • partial or total removal of heritage resources, including archaeological • remains, within the scheme footprint • compaction of archaeological deposits by construction traffic and structures • temporary impacts upon the settings of heritage resources • permanent impacts upon the setting of heritage resources • changes to key views and sight lines • impacts to paleoenvironmental deposits as a result of hydrological changes
Volume 6.2 Environmental Statement Chapter 6 – Cultural heritage (APP- 037)	Site missing from Archaeological Assessment - Womble Bond Dickinson (UK) LLP on behalf of Historic England, Responses to Examining Authority's Written Questions (REP1-139) Question 1.7.9: "Sites missing from the Archaeological Assessment (Appendix 6.2) include: 253 Iron Age Enclosure, linear and pits (GHER 4698)" The Iron Age Enclosure was erroneously omitted from paragraph 6.10.12 of ES Chapter 6 – Cultural Heritage (APP-037). The Iron Age Enclosure was assessed in ES Appendix 6.2 Archaeological Assessment (Document Reference 6.4, APP-341)	Paragraph 6.10.12 of ES Chapter 6 – Cultural heritage is amended to: The following non-designated resources that lie within or partially within the DCO Boundary coincide with features confirmed and investigated by geophysical survey and trial trenching. These are therefore considered as a component of buried archaeological remains, below. • 21- ridge and furrow • 116 - elongated mound (possible barrow) • 120 - linear earthwork bank • 132 - cropmark of late prehistoric and Roman trackways • 175 - rectilinear cropmark • 246 - ridge and furrow, circular enclosure and trackways • 248 - cropmarks south west of Harding's Barn, Cowley • 253 - Iron Age Enclosure, linear and pits

Document reference	Reason for amendment to the ES				Amendme	ent to the ES							
Volume 6.2 Environmental Statement Chapter 6 – Cultural heritage (APP- 037)	Non-Designated Heritage Assets – Womble Bond Dickinson (UK) LLP on behalf of Historic England, Responses to Examining Authority's Written Questions (REP1-139) Question 1.7.10:	Paragraph 6.10.7											
,	"The numbers in the ES appear to be incorrect as there are only 11 sites listed in Table 6-8 not 18."	Table 6-8 Permanent direct impacts on non-designated resources within DCO Boundary											
	"The Plans in ES 2.12 Heritage Designation Plans is to a legible scale and the heritage resources are clearly marked and	Archaeological Assessment Ref no.	Description	Period	Туре	Value	Nature of impact	Magnitude of impact	Significance of effect				
	they are numbered. Although 36 resources are identified in Chapter 6 there are 37 resource marked within the DCO boundary on the plans. It is unclear where or what the other 79 resources are that are said to be within the DCO boundary."	22451/5815	Prehistoric enclosure north east of Emma's Grove	Iron Age	Buried archaeological remains	Medium	The resource would be removed entirely by construction	Major adverse	Slight adverse due to the total loss of a low value resource,				
	"Table 6-8 also does not include Cowley Roman Settlement (GHER 5758) or a Prehistoric enclosure north east of Emma's Grove (GHER 22451/ 3815) These were omitted from the						activities within the DCO Boundary.		mitigated by preservation by record.				
	Archaeological Assessment and previous versions of the PEIR. During pre-application consultation Historic England raised both sites as being potentially important. This omission was identified by us in our response to the PEIR consultations on 8 November 2019 and 12 November 2020 and also through discussions and e-mail correspondence. Cowley Roman site is mentioned in the ES Chapter at 6.10.14 bullet point 3, but this is a brief summary of the evaluation and not an assessment of its significance"												
	The references to 11 and 18 resources in Chapter 6 Cultural Heritage paragraph 6.10.7 and Table 6-8 are erroneous. Both instances should state 12 resources, as Prehistoric enclosure north east of Emma's Grove was erroneously omitted.												
Volume 6.2 Environmental Statement Chapter 6 – Cultural heritage (APP- 037)	Heritage Resources – Womble Bond Dickinson (UK) LLP on behalf of Historic England, Responses to Examining Authority's Written Questions (REP1-139) Question 1.7.10: "At 6.7.10 the ES Chapter 6 states there are 116 heritage resources within the DCO boundary. These 116 sites are not identified anywhere in the Chapter or its appendices."	255 non-designated heritage resources are present within the study area, of which 116 36 lie within the DCO Boundary for the scheme. Of these, 27 are sites recorded in the Gloucestershire Historic Environment Record (HER), and the others represent individual artefact find-spots recorded by the Portable Antiquities Scheme (PAS).											
	The reference to 116 heritage resources is erroneous. This should state 36.												
Volume 6.2 Environmental Statement Chapter 6 – Cultural heritage (APP- 037)	Mis-graded Asset – Womble Bond Dickinson (UK) LLP on behalf of Historic England, Responses to Examining Authority's Written Questions (REP1-139) Question 1.7.10: "Peak Camp (GHER 4754), although mentioned within Chapter 6, it is missed off the mapping (ES 2.12 Heritage Designations Plans). At 6.10.9 it is stated to be a resource of Medium value. The site as a Neolithic settlement is reckoned due to its rarity to be of national importance and schedulable (Paragraph 4.1 Scheduling Selection Guide Settlements to 1500, Historic England 2018). Because of this it is of high value"	located to take advantage of views to the west from the escarpment, and towards a contemporary prehistoric enclosure on Crickley Hill. These views today contain modern infrastructure including the A417, M5 and other modern development that forms the urban curtilage of Gloucester to the west. Despite this, the location of Peak Camp, and views from it make a positive contribution to its significance.											
	Peak Camp is agreed to be upgraded to 'high' value. This change does not change the assessment outcomes in ES Chapter 6 Cultural Heritage.												

Document reference	Reason for amendment to the ES	Amendment to the ES								
Volume 6.2 Environmental	Scope of the ES- Examining Authority's Written Questions (PD-008) Question 1.8.5:	Table 7-12 of ES Chapter 7 Table 7-12 Visual receptor								
Statement Chapter 7 Landscape and visual	B. Visual receptors: • "For the Community of Birdlip, Table 7-12 notes that "Darks of the community in the second disease d	Receptor	Representative viewpoint number	Receptor scoped in/out	Reason					
(APP-038)	large changes which may appear dominant or form a noticeable feature in views or their visual resource at close proximity from locations to the north and east of Birdlip". Can the Applicant provide a justification for not including the assessment within the main ES chapter, as it has currently been scoped out and is reported in Appendix 7.5 [APP-352], despite the assessment indicating that it is of a medium sensitivity with a potentially moderate adverse effect during construction, which therefore may require scoping into the assessment in order to consider mitigation measures? • For the community of Cold Slad, Table 7-12 indicates that this is to be scoped in, however the assessment is presented within Appendix 7.5 [APP-352] and the accompanying text appears to indicate that the Applicant has decided to scope this out. Can the Applicant provide clarification as to the intended location of this assessment?" Table 7-12 of ES Chapter 7 Landscape and Visual erroneously states that the community of Birdlip may experience large	Community of Birdlip	VP39	Scoped in out	Parts of the community may experience direct views, large changes which may appear dominant or form a noticeable feature in views or their visual resource at close proximity from locations to the north and east of Birdlip. The community of Birdlip are unlikely to experience large changes which may appear dominant or form a noticeable feature in views or their visual resource from this distance and as a result of intervening vegetation and landform. The visual amenity for the Community of Birdlip was assessed. The assessment determined that there would be no significant visual effects during construction or operation for the Community of Birdlip. The content of the visual assessment has been moved to ES Appendix 7.5 Visual Assessment Tables (Document Reference 6.4).					
		Community of Cold Slad	VP13 and VP14	Scoped in out	The community may experience direct views, large changes which may appear dominant or form a noticeable feature in views or their visual resource at close proximity from locations along Cold Slad lane, limited to gaps in vegetation and between properties. The visual amenity for the Community of Cold Slad was assessed. The assessment determined that there would be no significant visual effects during construction or operation for the Community of Cold Slad. The content of the visual assessment has been moved to ES Appendix 7.5 Visual Assessment Tables (Document Reference 6.4).					
	changes in views which may appear dominant or form a noticeable feature in views. This should state that the community of Birdlip would have limited views of the proposed development.									
	Table 7-12 of ES Chapter 7 Landscape and Visual erroneously states that the community of Cold Slad is scoped into the assessment. This should state 'scoped out'.									
	These errors and their amendments were confirmed within the Response to the Examining Authority's Written Questions (ExQ1) (Document Reference 8.4, REP1-009).									

Document reference	Reason for amendment to the ES			Amend	ment to the ES						
Volume 6.2 Environmental Statement Chapter 8 Biodiversity (APP-039)	Change lowland meadow habitat references Correspondence with Natural England has confirmed that the habitat referred to as lowland meadow to the north of Shab Hill within ES Chapter 8 Biodiversity has originated from arable reversion, undertaken since 2002 under an Environmental Stewardship agreement. Therefore, whilst the habitat approximates to MG5a grassland, it is not semi-natural, unimproved grassland and does not meet definition of lowland meadow priority habitat. Therefore, updates to the impact assessment and valuation have been amended.	A field north of Shab Hill was surveyed due to the species-rich nature of the grassland with a high cover of forbs and species orchids, common spotted orchids and yellow rattle (<i>Rhinanthus minor</i>), noted during other species surveys. This field was as neutral grassland of NVC community MG5a (crested dog's-tail (<i>Cynosurus cristatus</i>) and common knapweed (<i>Centaurea nig</i> described as an atypical example. It has maintained good floristic condition of high botanical value due to sympathetic agricu management and exhibits characteristics of a hay meadow. Correspondence with Natural England has confirmed that this groriginated from arable reversion undertaken since 2002 under an Environmental Stewardship agreement. Therefore, whilst the approximates to MG5a grassland, it is not semi-natural, unimproved grassland and does not meet definition of lowland mead habitat.									
	ES Chapter 8 Biodiversity erroneously states that the total area of this neutral species-rich grassland to the north of Shab Hill is 4.5ha. This should state 5.32ha.	meadow species Paragraph 8.9.42 A field of high borecorded to the nof neutral species	rich grassland of h -rich semi-improve 2 tanical value know orth of Shab Hill. T s-rich grassland ha	righ botanical value (MG5a NVC) and neutral grassland priority hab re to contain an abundance of or the topsoil containing the seed abitat creation (including attenual and included in Annex D LEMP)	rchids and assess bank from this field ation basins) or en	ced as approxima d would be stored hancement within	y importance. ting to NVC comn d and retained in on the scheme. Me	nunity MG5a was order to use it in areas othodologies will be			
		Paragraph 8.10.87 Grassland The scheme would result in the following direct losses of grassland types, valued as being of local importance and above: Calcareous grassland – unimproved - national importance (HPI) (0.09ha). Calcareous grassland – semi-improved - county importance (2.44ha). Neutral grassland - semi-improved, species-rich grassland - national county importance (HPI) (4.5 5.32ha). Neutral grassland - semi-improved (other) - local importance (4.48ha). Neutral grassland poor semi-improved - local importance (36.17ha).									
		Paragraph 8.10.97 There are localised areas of neutral species-rich grassland to be lost within the DCO Boundary. Most notably, a grazed and meadow, measuring approximately 4.5 5.32ha, of high botanical value to the north of Shab Hill. This species-rich grassland arable reversion under an Environmental Stewardship agreement. It. It which is categorised as species-rich approximates to categorised as species-rich MG5a NVC community and, contains an abundance of orchids. and is considered to be an are meadow habitat of principal importance. This meadow falls within the main alignment of the scheme and its loss would be topsoil and seed bank from this field would be stored and retained in order to use it in areas of nearby habitat creation with									
		national importan	.32ha of neutral sp	pecies-rich grassland habitat to tages of the construction progran The habitat loss would represer	nme, would result	in permanent/irre	eversible damage	that would negatively			
		1	tral semi-improved vities. The residua	I species rich grassland would but the second to the second telegraph to the second telegraph to the second telegraph the second telegraph telegraph.	,			•			
		Table 8-21 Sumi	mary of assessm	ent of likely significant consti	ruction effects						
		Ecological Description of receptor potential impact mitigation, and enhancement measures Importance of reversibility in									
		Species-rich neutral grassland		The topsoil and seed bank from this field would be stored and retained in order to use it in areas of nearby habitat creation within the scheme.	National County	Permanent/ irreversible	Major adverse	Large Moderate adverse (significant)			

Document reference	Reason for amendment to the ES	Amendment to the ES
Volume 6.2 Environmental Statement Chapter 8 Biodiversity (APP-039)	Calcareous grassland net gain Table 8-18 of ES Chapter 8 Biodiversity correctly states the net gain of calcareous grassland and neutral grassland (75.41ha and 7.6ha respectively). However, paragraphs 8.9.86 and 8.9.115 state marginally incorrect totals.	Paragraphs 8.9.86 and 8.9.115 of ES Chapter 8 Biodiversity are amended to: Paragraphs 8.9.86 Mitigation measures would include landscape planting designed to replace that lost and incorporate features beneficial to invertebrates throughout the scheme. Habitat creation would include the planting of 75.34 75.41ha of species-rich calcareous and 7.52 7.6ha of neutral grassland with species beneficial to insects including pollinators. Species mixes would seek to include plants that provide a food source for scarce species identified onsite and especially within the SSSIs such chalkhill blue (<i>Lysandra coridon</i>), green hairstreak (<i>Callophrys rubi</i>), marsh fritillary (<i>Eurodryas aurinia</i>), Duke of Burgundy fritillary (<i>Hamearis Lucina</i>) and the day flying cistus forester moth (<i>Adscita Geryon</i>). Paragraphs 8.9.115 The landscape design forester of priority habitate that are present within the Catavald AONE, Natural England and
		The landscape design focusses on provision of priority habitats that are present within the Cotswold AONB. Natural England and Gloucestershire Wildlife Trust's vision for the scheme was to increase the area of lowland calcareous grassland. The current area of unimproved and semi-improved calcareous grassland within the scheme boundary is approximately 4.9ha (of which 2.53ha would be lost). A total of 75.31-75.41ha would be created following construction of the scheme. Whilst some of this area would be to compensate for the loss of SSSI calcareous grassland and mitigate the impacts of further fragmentation of SSSI habitat or loss of foraging habitat, the very large increase in calcareous grassland area exceeds that created for mitigation and is considered an enhancement. Furthermore, a 25m wide corridor of calcareous grassland will be provided across the Gloucestershire Way crossing, providing a continuous habitat link for calcareous grassland flora and fauna to disperse through the landscape. This is an enhancement in comparison to the Existing A417 which has no such provision.
Volume 6.2 Environmental Statement Chapter 9 Geology and soils (APP- 040)	Question 1.6.1: "a) With reference to paragraph 9.7.24 in ES Chapter 9	Paragraph 9.7.24 of Chapter 9 Geology and Soils is amended to: The tributary of Norman's Brook is a watercourse running from east to west below Crickley Hill and is primarily groundwater fed. It is connected to the River Severn and rises from springs on the escarpment. A small stream was also noted above the escarpment, immediately south of Birdlip junction Radio Station, which is possibly associated with the Churn valley near Shab Hill.
	Paragraph 9.7.24 of ES Chapter 9 Geology and Soils erroneously refers to Birdlip Junction. This should refer to Birdlip Radio Station, as confirmed within the Response to the Examining Authority's Written Questions (ExQ1) (Document Reference 8.4, REP1-009).	

Document reference	Reason for amendment to the ES				Amen	dment to the ES						
Volume 6.2	Clarification on Data - Examining Authority's Written	Tables 14-15 and 14 Table 14-15 Construc			Climate are amended	to:						
Environmental Statement Chapter 14 Climate (APP-045)	Questions (PD-008) Question 1.1.17: "In Chapter 14 of the ES [APP-045] Table 14-15 suggests total construction emissions of 74,114 tCO2e but paragraph 14.10.4 states this is 74,144. Confirm the correct figure"	Main stage of project life cycle			cycle		Emissions (tCO ₂ e)		f total ruction sions*			
	Table 14-15 and Table 14-18 erroneously report the total construction emissions as 74,114 tCO ₂ e. This should state		Pr	oduct stage	; including raw mater manufacture (A1	ial supply, transport and -A3)	40,698		55%			
	74,144 tCO ₂ e, as confirmed within the Response to the Examining Authority's Written Questions (ExQ1) (Document		Cons	Construction T		o/from works site (A4)	2,668		4%			
	Reference 8.4, REP1-009).	Construction stage		ss stage; luding:	Construction/ir	stallation processes (A5)	20,818		28%			
						ity to sequester carbon from 60 year assessment period)	9,960		13%			
					Construction stag	e total	74,114 74	1,144	100%			
		Table 14-18 Assessment of scheme net emissions (up to 2032) against UK Government carbon budgets										
		GH		GHG emi	d total (cumulative) ssions over carbon ets (tCO ₂ e) ('Do-	Net (cumulative) GHG emissions over carbon budgets (tCO _{2e}) ('Do-	emissions per relevant car budget (tCO₂e)					
			Something' scenario)		thing' scenario)	Something'-'Do-Minimum') Third	Fourth	Fifth	Sixth ¹		
						(2018 - 2022)	(2023 - 2027)	(2028 - 2032)	(2033 - 2037)			
		Construction (over of 42 months, assi commence in earl 2026)	umed to			74,114 74,144	n/a	74,114	n/a	n/a		
		Operation (modell 2026 through to				152,565	n/a	22,158	61,196	69,211		
		Total		2,447,356		226,709	n/a	96,302	61,196	69,211		
Volume 6.2 Environmental	Clarification on Terminology - Examining Authority's Written Questions (PD-008) Question 1.1.12:											
Statement Chapter 18 Glossary (APP-049)	"There are numerous instances where the phrase "at grade" is utilised. For clarity, what does this term mean and is it the	Glossary term					Description	on				
Clossary (var 1 646)	same in all instances where it appears (for example paragraph 6.2.81 of the Case for the Scheme)?"	At grade				Any element of the scheme, for example roads, crossings or footpaths that are at the same level as each other.						
	Addition of ' At-grade ' within the Applicant's response in the Response to the Examining Authority's Written Questions (ExQ1) (Document Reference 8.4, REP1-009).											

¹ The sixth carbon budget has been committed to by government and is expected to become law by June 2021.

Document reference	Reason for amendment to the ES					Amendment to the I	≣S .		
Volume 6.4	Missing reference to the Peak – National Trust Written Representation (REP1-098) Point 3 of Annex B:					cument Reference 6.2, APP-037	7) and Table 1-1 of ES Appe	ndix 6.1 Designa	ated Assets:
Environmental Statement Appendix 6.1	Representation (REF 1-090) Form 3 of Armex B.	•	sitivity) (Doci Scheduled m			P-340) is amended to:			
Designated Assets:	"3. The setting analysis in the EIA for Crickley Hill mentions modern intrusions but does not mention the inter-relationship of	NHLE	Name	Distance	iigii valao,	Setting	Nature of impact	Magnitude	Significance
Value (Sensitivity) (APP-340)	the natural and historic environment, which is such a critical			from scheme		J	·	of impact	
value (constantly) (value	the natural and historic environment, which is such a critical aspect of its significance and setting, underplays this site's visual and historic relationship to The Peak, Emma's Grove with its east-facing enclosure and other prehistoric monuments in the area, and its historic and visual relationship to views westwards. Considered as a whole, this group has national importance as evidence of how prehistoric peoples adapted the landscape as agricultural, social and religious practices changed. " Reference to the Peak was erroneously excluded from the setting description for Crickley Hill.		Crickley Hill camp	250m	of the Cots Hill's setting lowlands to south, down Hill itself, an Emma's Gr opposite the contempora activity at Connection that is likely of control of the A417. To substantiall resource. To range of mo city of Glou light industr distance, an and passes intrusions, to demonstrat Neolithic, B phases of the substantial of the resource.		visible from Crickley Hill in views to the south and woul alter some elements of the setting that contribute to its significance, in particular vietowards the contemporary prehistoric site, The Peak. The Change to its setting would affect the ability to understa Crickley Hill in its wider contant as a consequence its significance would be diminished. This would equate a slight adverse effect according to the criteria in Table 6-4.	Adverse d ews This and text,	Slight Adverse
		NHLE	Name	Designation		Description	Setting	Value (sensitivity)	References
		1003586	Crickley Hill camp	Scheduled	N/A	There is evidence of the first major occupation of Crickley Hill c. 3rd millennium BC with the remains of a causewayed enclosure at the top of the hill. The site is comprised of two lines of interrupted ditches cut off the low knoll, accompanied by a bank built of stones taken from the ditch; two entrances; and pits and post-sockets that outline where structures would have stood. The phasing of the infilling of the ditches suggests a lengthy but	position on the edge of the Cotswold escarpment, Crickley Hill's setting is one of long views over the lowlands to the west, shorter views to the south, down onto the slopes of Crickley Hill itself, and to the south east across Emma's Grove Barrows. Crickley Hill sits opposite	High	Dixon, P W, 1977, Crickley Hill and Gloucestershir e Prehistory, Gloucestershir e County Council, Gloucester.

Document reference	Reason for amendment to the ES	Amendment to the ES										
Volume 6.4 Environmental		The Archaeology		se in Appendix	1 of Ap	intermittent use of site. Use of the site con the Iron Age with the of a hill-top enclosed development of Cristin the 7th/6th cent saw the addition of rampart and ditched enclosure abutting previous Neolithic. occupation of the helasted no more that generations before was abandoned. A hillfort was construisite around a centuity with a central "great roundhouse c. 50 find diameter, surround sporadically placed round houses and square structures the probably granaries Crickley Hill has archaeological intest the settlement remission known to be preseduced.	attinued into the addition ure. The ickley Hill ury BC of a new ed the The hillfort in two extended at the ury later at second extended by dismaller small that were or stores.	monume to have element space in A417. To contribute sign resource takes in modern least the with its ilight ind the M5 idistance it approximent to these in setting of demons of the NAge and of the si makes a contribute signification resource.	aches and passe he site. Despite trusions, the of the site clearly trates the situation eolithic, Bronze I Iron Age phase te and as such a substantial tion to the ince of the	he e to ter		
Statement Appendix 6.2 Archaeological Assessment (APP-341)	"The hilltop location which favoured the establishment of Mesolithic and Neolithic communities prompted the choice of location for the radio station at Birdlip in the Second World War,		HER	NMR / HE reference	PAS	Description	Period	Туре	Significance	Lidar	Aerial photograph	
	which is a rare surviving example of its type and of 'Medium' significance in a national context." National Highways agrees with the National Trust to update the significance to 'Medium'.	124	17036	1586997		A Second World War radio station	WWII	Military	Low Medium	No data available	RAF/CPE/U/1897 RS 4446-4447 12- DEC-1946; RAF/543/673 F41 0001- 0003 24- AUG-1959; RAF/543/1913 F22 0036- 0038 17-OCT- 1962; OS/70291 V 380-381; 357-358 11-AUG-1970; OS/89088 V 014- 015 21- APR-1989	