

A303 Sparkford to Ilchester Dualling Scheme TR010036

6.8 Environmental Statement: Addendum

Planning Act 2008
February 2019



Infrastructure Planning

Planning Act 2008

**A303 Sparkford to Ilchester Dualling
Scheme**

Development Consent Order 201[X]

Environmental Statement: Addendum

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1 Introduction

1.1 Purpose of the Environmental Statement Addendum

- 1.1.1 An Environmental Statement (ES) was submitted to the Planning Inspectorate in July 2018 as part of a Development Consent Order (DCO) application (TR010036) for the A303 Sparkford to Ilchester Dualling scheme (hereafter referred to as 'the scheme'). The ES set out the findings of the full Environmental Impact Assessment (EIA) that was carried out for the scheme. The previously submitted ES is hereafter referred to as the '2018 ES'.
- 1.1.2 This ES Addendum has been produced to update the findings of the 2018 ES in light of the proposed alterations to the red line boundary of the scheme. The proposed alterations to the red line boundary are described in Chapter 2 of this ES Addendum. The purpose of this ES Addendum is to ensure that the environmental impacts of those proposed amendments have been appropriately assessed with any likely significant environmental effects identified, and to satisfy the requirements of the Infrastructure Planning (EIA) Regulations 2017 (as amended).
- 1.1.3 The proposed amendments to the scheme extents can be seen in Figure A2.1 in Appendix B of this ES Addendum, which also depicts the proposed revised red line (the red line boundary). The proposed amendments are summarised as follows, with further details provided in Section 2.6 below:
- Removal of the cement bound granular material (CBGM) auxiliary compound.
 - Amendments to the layout, siting and size of the main construction compound with the CBGM plant proposed in the revised main site compound.
 - Amendment to the permanent access to Blackwell Farm.
 - Amendment to the shape of the proposed Public Right of Way joining Gason Lane to ensure it fully aligns with the verge of Gason Lane.
- 1.1.4 This ES Addendum provides information regarding the proposed changes to the scheme design. However, it is not a duplication of the 2018 ES and should be read in conjunction with the 2018 ES. For further detail regarding the structure of this ES Addendum, please see Section 1.5 below.

1.2 Overview of the scheme

- 1.2.1 The A303 Sparkford to Ilchester Dualling was announced as part of the Road Investment Strategy¹ (RIS) for the 2015/16 to 2019/20 road period. The existing route suffers from congestion and queueing, particularly during the summer months and at weekends. The proposed scheme is to provide a continuous dual carriageway on the A303 linking the Podimore Bypass and the Sparkford Bypass. The scheme would involve the removal of at-grade

¹ Department for Transport (2015) *Road Investment Strategy: 2015 to 2020* [online] available at: <https://www.gov.uk/government/collections/road-investment-strategy> (last accessed January 2019).

junctions and direct accesses. Any new junctions would be constructed to grade separated standards, or to compact grade separated standards depending upon anticipated traffic flows.

- 1.2.2 The route follows the existing corridor of the A303 very closely. It is generally considered to be an online solution although is often deliberately aligned just to the side of the existing carriageway in order to allow re-use of the existing route for local access, avoid property or facilitate construction. At its maximum offset the route is typically 100 metres either north or south of the existing A303. Section 2.5 of Chapter 2 in the 2018 ES describes the scheme in full detail.

1.3 Scope of the ES Addendum

- 1.3.1 This ES Addendum only presents new assessment work where the proposed changes to the red line boundary are considered to have resulted in a material change to the content of the 2018 ES. Where there are no changes to the chapters from the 2018 ES, the original conclusions in the 2018 ES are unaffected.
- 1.3.2 Further details on the EIA methodology can be found in Chapter 4 of the 2018 ES (APP-041). The significance criteria adopted in this ES Addendum are the same as those outlined in Section 4.4 of the 2018 ES (APP-041).

1.4 Structure of the ES Addendum

- 1.4.1 This ES Addendum is structured as follows:
- ES Addendum Main Text (Volume 6.8)
 - Appendix A – Technical Notes corresponding to each Technical Appendix that has required updating
 - Appendix B – Figures that supersede those included in the 2018 ES
 - The revised ES Addendum Non-Technical Summary (Volume 6.4 Revision B)
- 1.4.2 The main text of this ES Addendum considers each chapter of the 2018 ES in turn. Within each technical chapter the updated information is presented under the same section headings as the original assessment of the 2018 ES. The ES Addendum should therefore be read in conjunction with, and as an addendum to, the 2018 ES.
- 1.4.3 A summary of the changes to the 2018 ES is provided in Table 1.1. Where no change to the technical chapter and associated figures and appendices presented within the 2018 ES is necessary, no additional text regarding that topic has been included within this ES Addendum. Figures from the 2018 ES have been superseded where a direct reference to them has been made in this ES Addendum.

Table 1.1 Summary of the changes made to the 2018 ES

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-038	6.1 Environmental Statement: Chapter 1 Introduction	Chapter 1 of the ES Addendum sets out the purpose of the document, outlines the approach taken, and the ES Addendum structure.
APP-039	6.1 Environmental Statement: Chapter 2 The scheme	With the exception of the changes to the scheme design and red line boundary resulting in the need for this ES Addendum as noted in Section 2.6 below, the description of the scheme in the 2018 ES remains valid.
APP-040	6.1 Environmental Statement: Chapter 3 Assessment of alternatives	No change required and this chapter of the 2018 ES remains valid.
APP-041	6.1 Environmental Statement: Chapter 4 Environmental assessment methodology	No change required and this chapter of the 2018 ES remains valid.
APP-042	6.1 Environmental Statement: Chapter 5 Air Quality	Changes are as follows: <ul style="list-style-type: none"> • Construction stage study area • Number of construction stage receptors No change to the overall significance of effects are reported.
APP-043	6.1 Environmental Statement: Chapter 6 Cultural Heritage	Changes are as follows: <ul style="list-style-type: none"> • Assessment study area • Number of receptors Changes to the overall significance of effects have been reported.
APP-044	6.1 Environmental Statement: Chapter 7 Landscape	Changes are as follows: <ul style="list-style-type: none"> • Assessment study area • Number of visual receptors Changes to the overall significance of effects have been reported.
APP-045	6.1 Environmental Statement: Chapter 8 Biodiversity	Changes are as follows: <ul style="list-style-type: none"> • Assessment study area • Potential impacts No change to the overall significance of effects are reported.
APP-046	6.1 Environmental Statement: Chapter 9 Geology and soils	No change required and this chapter of the 2018 ES remains valid. An Unexploded Ordnance survey has been undertaken within the new areas included within the red line boundary, this identified no risk within these areas.
APP-047	6.1 Environmental Statement: Chapter 10 Material assets and waste	No change required and this chapter of the 2018 ES remains valid.
APP-048	6.1 Environmental Statement: Chapter 11 Noise and vibration	Changes are as follows: <ul style="list-style-type: none"> • Number of noise receptors No change to the overall significance of effects are reported.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-049	6.1 Environmental Statement: Chapter 12 People and communities	Changes are as follows: <ul style="list-style-type: none"> • Amendments to agricultural land take • Receptors identified in Local Impact Area No change to the overall significance of effects are reported.
APP-050	6.1 Environmental Statement: Chapter 13 Climate	No change required and this chapter of the 2018 ES remains valid.
APP-051	6.1 Environmental Statement: Chapter 14 Combined and cumulative effects	Changes are as follows: <ul style="list-style-type: none"> • Summary sections for the environmental topics No change to the overall significance of effects are reported.
APP-052	6.1 Environmental Statement: Chapter 15 Summary	A summary section has been completed to detail the changes between the summary of the ES Addendum and the summary of the 2018 ES.
APP-053	6.1 Environmental Statement: Chapter 16 Glossary	The glossary has been updated to include the references necessary for this ES Addendum.
Appendices		
APP-054	6.3 Environmental Statement Appendix 4.1 Scoping Opinion	No change required and this appendix of the 2018 ES remains valid.
APP-055	6.3 Environmental Statement Appendix 4.2 Scoping Opinion Schedule of Comments and Responses	No change required and this appendix of the 2018 ES remains valid.
APP-056	6.3 Environmental Statement Appendix 4.3 Road Drainage and the Water Environment Assessment Summary	No change required and this appendix of the 2018 ES remains valid.
APP-057	6.3 Environmental Statement Appendix 4.4 HAWRAT Assessment	No change required and this appendix of the 2018 ES remains valid.
APP-058	6.3 Environmental Statement Appendix 4.5 Water Framework Directive Screening and Scoping Assessment	No change required and this appendix of the 2018 ES remains valid.
APP-059	6.3 Environmental Statement Appendix 4.6 Flood Risk Assessment	No change required and this appendix of the 2018 ES remains valid.
APP-060	6.3 Environmental Statement Appendix 4.7 Drainage Strategy Report	No change required and this appendix of the 2018 ES remains valid.
APP-061	6.3 Environmental Statement Appendix 4.8 Assessment of Major Accidents and Natural Disasters	No change required and this appendix of the 2018 ES remains valid.
APP-062	6.3 Environmental Statement Appendix 4.9 Environmental Consultation Meeting Minutes	No change required and this appendix of the 2018 ES remains valid.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-063	6.3 Environmental Statement Appendix 5.1 SATURN Traffic Data	No change required and this appendix of the 2018 ES remains valid.
APP-064	6.3 Environmental Statement Appendix 5.2 Local Air Quality Monitoring	No change required and this appendix of the 2018 ES remains valid.
APP-065	6.3 Environmental Statement Appendix 5.3 Model Verification	No change required and this appendix of the 2018 ES remains valid.
APP-066	6.3 Environmental Statement Appendix 5.4 Local Air Quality Receptor Results	No change required and this appendix of the 2018 ES remains valid.
APP-067	6.3 Environmental Statement Appendix 6.1 Cultural Heritage Desk Based Assessment	The changes presented in Appendix A1 are as follows: <ul style="list-style-type: none"> • Assessment study area • Number of receptors Changes to the overall significance of effects have been reported.
APP-068	6.3 Environmental Statement Appendix 6.2 Statement of Significance	No change required and this appendix of the 2018 ES remains valid.
APP-069	6.3 Environmental Statement Appendix 7.1 Arboricultural Constraints Report	The changes presented in Appendix A2 are as follows: <ul style="list-style-type: none"> • Assessment study area
APP-070	6.3 Environmental Statement Appendix 7.2 Landscape Character Areas	No change required and this appendix of the 2018 ES remains valid.
APP-071	6.3 Environmental Statement Appendix 7.3 Arboricultural Impact Assessment	The changes presented in Appendix A3 are as follows: <ul style="list-style-type: none"> • Tree constraints
APP-072	6.3 Environmental Statement Appendix 7.4 Visual Baseline and Impact Schedules	The changes presented in Appendix A4 are as follows: <ul style="list-style-type: none"> • Number of receptors
APP-073	6.3 Environmental Statement Appendix 7.5 Photomontage Methodology	No change required and this appendix of the 2018 ES remains valid.
APP-074	6.3 Environmental Statement Appendix 8.1 Protected Species Legislation and Policy	No change required and this appendix of the 2018 ES remains valid.
APP-075	6.3 Environmental Statement Appendix 8.2 National Vegetation Classification Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-076	6.3 Environmental Statement Appendix 8.3 Hedgerow Technical Report	The changes presented in Appendix A5 are as follows: <ul style="list-style-type: none"> • Assessment study area

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-077	6.3 Environmental Statement Appendix 8.4 Bat Technical Report	The changes presented in Appendix A6 are as follows: <ul style="list-style-type: none"> • Potential impacts
APP-078	6.3 Environmental Statement Appendix 8.5 Barn Owl Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-079	6.3 Environmental Statement Appendix 8.6 Breeding Bird Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-080	6.3 Environmental Statement Appendix 8.7 Reptile Technical Report	The changes presented in Appendix A7 are as follows: <ul style="list-style-type: none"> • Potential impacts
APP-081	6.3 Environmental Statement Appendix 8.8 Dormouse Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-082	6.3 Environmental Statement Appendix 8.9 Great Crested Newt Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-083	6.3 Environmental Statement Appendix 8.10 Water Vole and Otter Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-084	6.3 Environmental Statement Appendix 8.11 Invertebrate Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-085	6.3 Environmental Statement Appendix 8.12 Brown Hairstreak Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-086	6.3 Environmental Statement Appendix 8.13 Macroinvertebrate Technical Report	No change required and this appendix of the 2018 ES remains valid.
APP-087	6.3 Environmental Statement Appendix 9.1 Preliminary Sources Study Report	No change required and this appendix of the 2018 ES remains valid.
APP-088	6.3 Environmental Statement Appendix 9.2 Annex A to the Preliminary Sources Study Report	No change required and this appendix of the 2018 ES remains valid.
APP-089	6.3 Environmental Statement Appendix 9.3 Ground Investigation Location Plan and Schedule of Investigations	No change required and this appendix of the 2018 ES remains valid.
APP-090	6.3 Environmental Statement Appendix 11.1 Baseline Noise Survey Results	No change required and this appendix of the 2018 ES remains valid.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-091	6.3 Environmental Statement Appendix 11.2 Construction Activities and Plant for Noise Assessment	No change required and this appendix of the 2018 ES remains valid.
APP-092	6.3 Environmental Statement Appendix 11.3 Construction Assessment for Residential Properties	No change required and this appendix of the 2018 ES remains valid.
APP-093	6.3 Environmental Statement Appendix 12.1 Non-Motorised User Survey Results	No change required and this appendix of the 2018 ES remains valid.
APP-094	6.3 Environmental Statement Appendix 12.2 Demographic Profile	No change required and this appendix of the 2018 ES remains valid.
APP-095	6.3 Environmental Statement Appendix 12.3 Communities Supplementary Information	The changes presented in Appendix A9 are as follows: <ul style="list-style-type: none"> Assessment of impacts
APP-096	6.3 Environmental Statement Appendix 12.4 Agricultural Impact Assessment Baseline Report	The changes presented in Appendix A8 are as follows: <ul style="list-style-type: none"> Revised drawings
APP-097	6.3 Environmental Statement Appendix 12.5 Driver Stress in Operation	No change required and this appendix of the 2018 ES remains valid.
APP-098	6.3 Environmental Statement Appendix 13.1 Carbon Assessment Report	No change required and this appendix of the 2018 ES remains valid.
Figures		
APP-099	6.2 Environmental Statement Figure 1.1 Location Plan	No change required
APP-100	6.2 Environmental Statement Figure 2.1 Red Line Boundary Plan	Figure 2.1 has been replaced with the new Figure A2.1 provided in this ES Addendum.
APP-101	6.2 Environmental Statement Figure 2.2 Environmental Constraints	A revised Environmental Constraints Plan has been provided as Figure A2.2. Changes are as follows: <ul style="list-style-type: none"> Red line boundary
APP-102	6.2 Environmental Statement Figure 2.3 General Arrangement Plans	No change to the General Arrangement Plans. Figure 2.3 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-103	6.2 Environmental Statement Figure 2.4 Rights of Way and Access Plans	No change to the Rights of Way and Access Plans. Figure 2.4 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-104	6.2 Environmental Statement Figure 2.5 Steart Hill Overbridge and Hazlegrove Junction Underbridge General Arrangement	No change required
APP-105	6.2 Environmental Statement Figure 2.6 - Proposed Lighting Layout at Hazlegrove Junction	No change required
APP-106	6.2 Environmental Statement Figure 2.7 - Outline Drainage Works Plans	No change required
APP-107	6.2 Environmental Statement Figure 2.8 - Environmental Masterplan	A revised Environmental Masterplan is provided as Figure A2.4. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Construction dust buffer • Number of receptors
APP-108	6.2 Environmental Statement Figure 2.9 Temporary Works Plan	A revised Temporary Works Plan is provided as Figure A2.3. Changes are as follows: <ul style="list-style-type: none"> • Revised red line boundary • Areas of construction compounds
APP-109	6.2 Environmental Statement Figure 5.1 Construction Dust Buffer	A revised Construction Dust Buffer is provided as Figure A3.1. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Construction dust buffer • Number of receptors
APP-110	6.2 Environmental Statement Figure 5.2 Local Affected Road Network	No change required
APP-111	6.2 Environmental Statement Figure 5.3 Summary of Traffic Data	No change required
APP-112	6.2 Environmental Statement Figure 5.4 Air Quality Receptors	No change to the air quality receptors. Figure 5.4 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-113	6.2 Environmental Statement Figure 5.5 Operational Regional Air Quality Study Area 2023 and 2038	No change to the operational regional air quality study area. Figure 5.5 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-114	6.2 Environmental Statement Figure 5.6 Air Quality Constraints	No change to the air quality constraints. Figure 5.6 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-115	6.2 Environmental Statement Figure 5.7 Scheme Specific Air Quality Monitoring Sites and Model Verification	No change to the air quality monitoring sites and model. Figure 5.7 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-116	6.2 Environmental Statement Figure 6.1 Heritage Assets with the Potential for Likely Significant Effects	A revised Heritage Assets with the Potential for Likely Significant Effects is provided as Figure A4.1. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Number of receptors
APP-117	6.2 Environmental Statement Figure 7.1 Zone of Theoretical Visibility	A revised Zone of Theoretical Visibility is provided as Figure A5.1. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary
APP-118	6.2 Environmental Statement Figure 7.2 Topographical Plan	No change to the Topographical Plan. Figure 5.7 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-119	6.2 Environmental Statement Figure 7.3 Landscape Constraints Plan	No change
APP-120	6.2 Environmental Statement Figure 7.4 Landscape Character Areas	No change
APP-121	6.2 Environmental Statement Figure 7.5 Visual Receptor Plan	A revised Visual Receptor Plan is provided as Figure A5.2. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Number of receptors
APP-122	6.2 Environmental Statement Figure 7.6 Key Views	No change

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-123	6.2 Environmental Statement Figure 7.7 Visual Impact Plan	A revised Visual Impact Plan is provided as Figure 5.3. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Number of receptors • Assessment of effects for receptors
APP-124	6.2 Environmental Statement Figure 7.8 Photomontages	No change
APP-125	6.2 Environmental Statement Figure 7.8A View 10 Existing	No change
APP-126	6.2 Environmental Statement Figure 8.1 Phase 1 Habitat Map	No change to the Phase 1 Habitat Map. Figure 8.1 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-127	6.2 Environmental Statement Figure 9.1 Baseline Information Used to Inform the Geology and Soils Assessment	No change to the baseline information used to inform the geology and soils assessment. Figure 9.1 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-128	6.2 Environmental Statement Figure 11.1 Operational Noise Study Area	No change
APP-129	6.2 Environmental Statement Figure 11.2 Construction Noise Study Area	No change
APP-130	6.2 Environmental Statement Figure 11.3 Noise Levels in the Do Minimum Opening Year	No change to the noise levels in the do minimum opening year. Figure 11.3 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-131	6.2 Environmental Statement Figure 11.4 Noise levels in the Do Minimum Design Year	No change to the noise levels in the do minimum design year. Figure 11.4 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-132	6.2 Environmental Statement Figure 11.5 Noise Levels in the Do Something Opening Year	No change to the noise levels in the do something opening year. Figure 11.5 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-133	6.2 Environmental Statement Figure 11.6 Noise Levels in the Do Something Design Year	No change to the noise levels in the do something design year. Figure 11.6 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-134	6.2 Environmental Statement Figure 11.7 Short-term Noise Change	No change to the short-term noise change. Figure 11.7 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-135	6.2 Environmental Statement Figure 11.8 Long-term Noise Change	No change to the long-term noise change. Figure 11.8 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-136	6.2 Environmental Statement Figure 12.1 Local Impact Area Plan	A revised Local Impact Area Plan is provided as Figure A8.1. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Local Impact Area buffer
APP-137	6.2 Environmental Statement Figure 12.2 Existing Non-Motorised User Facilities	No change
APP-138	6.2 Environmental Statement Figure 12.3 Residential Properties in the Local Impact Area	A revised Residential Properties in Local Impact Area Plan is provided as Figure A8.2. Changes are as follows: <ul style="list-style-type: none"> • Red line boundary • Local Impact Area buffer • Residential receptors
APP-139	6.2 Environmental Statement Figure 12.4 Businesses in the Local Impact Area	No change to the businesses in the local impact area. Figure 12.4 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.

APP Reference	Document	Summary of changes included in the ES Addendum, where required
APP-140	6.2 Environmental Statement Figure 12.5 Community Resources in the Local Impact Area	No change to the community resources in the local impact area. Figure 12.5 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-141	6.2 Environmental Statement Figure 14.1 Zones of Influence	No change to the zones of influence. Figure 14.1 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-142	6.2 Environmental Statement Figure 14.2 Haynes Publishing and Proposed Scheme with Relevant Zones of Influence	No change to the Haynes publishing and proposed scheme with relevant zones of influence. Figure 14.2 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-143	6.2 Environmental Statement Figure 14.3 Solar Farm and Proposed Scheme with Relevant Zones of Influence	No change to the solar farm and proposed scheme with relevant zones of influence. Figure 14.3 remains valid with the exceptions of the red line boundary. This figure has not been updated for the purposes of this ES Addendum.
APP-144	6.2 Environmental Statement Confidential Badger Technical Report - This report contains confidential information therefore, this document is only available on request to those who have a legitimate need to view the information.	No change required and this appendix of the 2018 ES remains valid.
APP-145	6.4 Environmental Statement Non-Technical Summary	The Non-Technical Summary has been revised to include details of the ES Addendum, and is superseded by Non-Technical Summary, Volume 6.4 Revision B.
APP-146	6.5 Environmental Statement Statement of Statutory Nuisances	No change required and this document of the 2018 ES remains valid.
APP-147	6.6 Environmental Statement Habitat Regulations Assessment of No Significant Effects Report	No change required and this document of the 2018 ES remains valid.
APP-148	6.7 Environmental Statement Outline Environmental Management Plan	No change required and this document of the 2018 ES remains valid.

2 The Scheme

2.1 Introduction

2.1.1 The contents of Chapter 2 of the 2018 ES (APP-039) remain unchanged and valid, with the exception of the additions and changes outlined below.

2.2 Scheme location

2.2.1 The proposed updates to the red line boundary of the scheme can be seen in Figure A2.1 in Appendix B of this ES Addendum, which also depicts the scheme extents.

2.2.2 The key environmental designations located within 2 kilometres of the scheme extents or just outside are shown on Figure A2.2 of Appendix B, Environmental Constraints Plan.

2.3 Scheme description

2.3.1 In summary, the proposed amendments are as follows:

- Removal of the cement bound granular material (CBGM) auxiliary compound.
- Amendments to the layout, siting and size of the main construction compound with the CBGM plant proposed in the revised main site compound.
- Amendment to the permanent access to Blackwell Farm.
- Amendment to the shape of the proposed Public Right of Way joining Gason Lane to ensure it fully aligns with the verge of Gason Lane.

2.3.2 The section of highway that is to be upgraded would remain as 5.6 kilometres long. The footprint of the proposed red line boundary for the scheme (which includes areas required temporarily during construction) would be amended to 119.02 hectares, whilst the scheme during operation would be 71.42 hectares, see the Temporary Works Plan, Figure A2.3, of Appendix B which supersedes Figure 2.9 of the 2018 ES (APP-108).

Environmental design

2.3.3 The environmental design has been updated in line with the proposed changes to the scheme design. The updated environmental design is shown on Figure A2.4 Environmental Masterplan of Appendix B which supersedes Figure 2.8 of the 2018 ES.

Temporary works to facilitate the construction of the scheme

Temporary site compounds

Temporary auxiliary compounds

2.3.4 The CBGM auxiliary compound identified in Section 2.5.213 of the 2018 ES (APP-039) is proposed to be removed from the red line boundary and would cease to be utilised as an alternative to the main site compound for the

storage of plant and materials to supply the eastern sections of the scheme. In addition, the batching plant for batching the CBGM would be undertaken within the proposed relocation of the main site compound.

- 2.3.5 The CBGM auxiliary compound location as outlined in the 2018 ES was deemed to cause substantial inconvenience to a working dairy farm and therefore this activity is proposed to be relocated to the revised main site compound.

Temporary main site compound

- 2.3.6 As referenced in the 2018 ES at paragraph 2.5.202 (APP-039), the scheme described in the 2018 ES included the location of the main construction compound in an area of land approximately 4.9 hectares in size to the south of the existing A303 and north of the B3151.
- 2.3.7 The proposed change involves the relocation of the main construction compound into land adjacent to the west. The size of this proposed construction compound would be approximately 9.9 hectares, an increase of approximately 5 hectares for the main construction compound. The area of the previously proposed main site compound would be significantly reduced in size to reflect this change, with the residual area of approximately 0.2 hectares being required for temporary works alongside the proposed dual carriageway.
- 2.3.8 The proposed changes would relocate the main site compound (Figure A2.3 of Appendix B) between the existing A303 and the B3151.
- 2.3.9 A new access point to the proposed main site compound would be constructed from the A303 (Figure A2.3 in Appendix B). The position and specification of the proposed junction amendments would conform with Design Manual for Roads and Bridges (DMRB) Volume 6 Section 2 Part 7 and would be constructed in accordance with the Specification for Highway Works². The proposed access would be temporary and would be restored to its previous state post-construction.
- 2.3.10 The proposed main site compound would accommodate all existing facilities as previously identified in the 2018 ES (paragraphs 2.5.204 – 2.5.210, APP-039). Additional uses of the proposed main site compound would include a batching plant for the batching of CBGM, which would be relocated from the CBGM auxiliary compound located to the west of Traits Lane (as identified in the 2018 ES, paragraphs 2.5.213 – 2.5.215, APP-039).
- 2.3.11 The relocation of the proposed main site compound is required because it has been identified through consultation that the Defence Infrastructure Organisation plan to install landing lights as part of planned improvements to Royal Naval Air Station (RNAS) Yeovilton. The landing lights would require a large exclusion zone and are due to be installed during the construction phase

²Highways England (2018) Manual of Contract Documents for Highways Works: Volume 1 – Specification for Highway Works [online] available at: <http://www.standardsforhighways.co.uk/ha/standards/mchw/vol1/index.htm> (last accessed January 2019).

of the scheme. Therefore, the adjacent field was determined to be the most appropriate location for the proposed main site compound.

Permanent changes to private means of access

2.3.12 As referenced in the 2018 ES at paragraph 2.5.113 (APP-039), Heavy Goods Vehicle (HGV) access to Blackwell Farm (located approximately half way along Traits Lane) is currently only available from the A303 junction with Traits Lane. The junction at the southern end of Traits Lane is not suitable for HGV access.

2.3.13 Access from the A303 to Traits Lane would be severed as a result of the construction of the proposed dual carriageway.

2.3.14 As a result of this loss of connection, the scheme described in the 2018 ES included a new private access track to Blackwell Farm, leading from Blackwell Lane into the south of the property. This track occupied approximately 0.2 hectares.

2.3.15 The proposed change involves the removal of this track and improvement of the current junction between Blackwell Lane and Traits Lane which is approximately 225 metres to the west of the private access track included as part of the scheme in the 2018 ES, shown in Figure A2.1 of Appendix B. Proposed improvements to this junction would comprise widening the Traits Lane arm of the junction in order to facilitate HGV turning movements. This would require the acquisition of approximately 0.06 hectares of adjacent land for use as carriageway and associated verge.

2.3.16 This change in access is proposed in order to provide a better value design solution due to the reduction in material required, to reduce the overall permanent land take required for the scheme, to reduce the amount of agricultural land take by the scheme, and to respond to the concerns of local residents.

2.3.17 The proposed permanent changes to the highway are shown in Figure A2.3 of Appendix B.

Changes to public rights of way

Proposed Rights of Way

2.3.18 An additional 2.92 square-metres has been added to the proposed right of way which joins Gason Lane to the reference I on Figure 2.1 overleaf. This has been added to ensure the proposed right of way aligns with the alignment of Gason Lane.

Figure 2.1: Proposed non-motorised user routes (east)



3 Air Quality

3.1 Introduction

3.1.1 Chapter 5 of the 2018 ES (APP-042) describes the likely significant effects of the scheme on air quality. This ES Addendum chapter considers only the likely significant effects of the proposed red line boundary changes on air quality.

3.2 Competent expert evidence

3.2.1 The competent expert advice for air quality has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.2 of the 2018 ES (APP-042) remains unchanged and valid.

3.3 Legislative and policy framework

3.3.1 The legislative and policy framework for air quality has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.3 of the 2018 ES (APP-042) remains unchanged and valid.

3.4 Assessment methodology

3.4.1 The assessment methodology for air quality has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.4 of the 2018 ES (APP-042) remains unchanged and valid.

3.5 Assessment assumptions and limitations

3.5.1 The assessment assumptions and limitations for air quality have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.5 of the 2018 ES (APP-042) remains unchanged and valid.

3.6 Study Area

3.6.1 Following the advice set out in paragraph 3.45 of DMRB Volume 11 Section 3, Part 1 – Air Quality (HA207/07), sensitive features within 200 metres of any construction activities and site compounds have been identified to be included in the assessment of construction effects. The Construction Dust buffer is shown on Figure A3.1 of Appendix B. A total of 179 residential receptors have been identified within the construction phase study area of the proposed scheme design changes for this ES Addendum, compared to the 177 residential receptors previously identified in Paragraph 5.6.4 of the 2018 ES (APP-042). This is due to the proposed change in access arrangements for Blackwell Farm (as shown in Figure A2.1 of Appendix B), which would result in the removal of 2 residential receptors and the addition of 4 residential receptors to the assessment of air quality effects during construction.

3.6.2 No new designated sites have been identified within the updated study area.

3.6.3 For the operational stage assessment, in accordance with paragraph 3.12 of DMRB Volume 11 Section 3, Part 1 – Air Quality (HA207/07), certain criteria have been applied to the scheme Do-Minimum and Do-Something scenario traffic flows in order to identify which roads are likely to be affected by the scheme (referred to as the affected road network (ARN)) to a degree that they require consideration within the local air quality assessment. The changes to the red line boundary would not alter the traffic flows and therefore the operational stage ARN for the scheme, which remains the same as presented in the 2018 ES (APP-042).

3.7 Baseline conditions

3.7.1 The baseline air quality conditions have not altered due to the proposed amendments to the red line boundary. Therefore, the text within Section 5.7 of the 2018 ES (APP-042) remains unchanged and valid.

3.8 Potential impacts

3.8.1 The potential impacts for air quality as a result of the scheme have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.8 of the 2018 ES remains unchanged and valid.

3.9 Design, mitigation and enhancement measures

3.9.1 The design, mitigation and enhancement measures for air quality have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.9 of the 2018 ES (APP-042) remains unchanged and valid.

3.10 Assessment of likely significant effects

Construction

3.10.1 The proposed main compound location and removal of the CBGM auxiliary compound would not change the assessment of likely significant effects presented within the 2018 ES since the nearest receptors would be greater than 200 metres from the scheme.

3.10.2 However, the works proposed at the southern extent of Traits Lane increases the construction dust study area to include 4 new residential receptors. These sensitive receptors would not require specialist construction mitigation measures to be applied, beyond those measures presented within Section 5.9 of the 2018 ES (APP-042) and impacts are not concluded to be significant.

3.10.3 The proposed changes at the southern extent of Traits Lane would also require the temporary road closure of Traits Lane at the junction with Blackwell Road. Due to the short-term temporary nature of the closure and the very low traffic flows utilising Traits Lane, the conclusions reported within Paragraph 5.10.5 of the 2018 ES (APP-042) remain unchanged and are not expected to be significant.

Operation

3.10.4 Through the operation of the scheme the receptors now included within the air quality assessment study area due to the proposed changes to the red line boundary, would not be affected as they would not be within 200 metres of the ARN as defined in Section 5.6 of the 2018 ES (APP-042).

3.11 Monitoring

3.11.1 The monitoring requirements for air quality have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 5.11 of the 2018 ES (APP-042) remains unchanged and valid.

3.12 Conclusions

3.12.1 The proposed amendments to the scheme design, outlined in Chapter 2 of this ES Addendum (APP039), would result in no change to the conclusions of the assessment of air quality effects in the 2018 ES.

3.12.2 The figures supporting Chapter 5 of the 2018 ES, excluding those where changes have been described in Table 1.1, remain valid.

4 Cultural Heritage

4.1 Introduction

4.1.1 Chapter 6 of the 2018 ES (APP-043) considers the likely significant effects of the proposed scheme on the value of heritage assets within the study area, including listed buildings, scheduled monuments, a registered park and garden (RPG), and conservation areas, along with non-designated buildings, historic landscapes, and buried archaeological features and deposits. This ES Addendum chapter also considers the likely significant effects of the proposed scheme on the value of heritage assets within the study area.

4.2 Competent expert evidence

4.2.1 The competent expert advice for cultural heritage has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.2 of the 2018 ES (APP-043) remains unchanged and valid.

4.3 Legislative and policy framework

4.3.1 The legislative and policy framework for cultural heritage has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.3 of the 2018 ES (APP-043) remains unchanged and valid.

4.4 Assessment methodology

4.4.1 The assessment methodology for cultural heritage has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.4 of the 2018 ES (APP-043) remains unchanged and valid.

4.5 Assessment assumptions and limitations

4.5.1 The assessment assumptions and limitations for cultural heritage have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.5 of the 2018 ES (APP-043) remains unchanged and valid.

4.6 Study area

4.6.1 The definition of the study area identified for the assessment remain as identified within Section 8.6 of the 2018 ES (APP-043). Therefore, the text within section 8.6 of the 2018 ES (APP-043) remains unchanged and valid. However, the extent of the study area for the purposes of this ES Addendum is based upon the updated red line boundary.

4.7 Baseline conditions

Archaeological and historic background

- 4.7.1 The location of the proposed main site compound is situated immediately west of an Iron Age settlement revealed during the archaeological trench evaluation for the scheme, shown in Appendix A1. The settlement comprised 2 possible roundhouses within a small enclosure system. These archaeological remains are contained within the eastern part of the field, located outside and to the east of the proposed main site compound with the associated enclosure system seeming to be limited to this area also.
- 4.7.2 The 2018 ES (APP-043) had identified an Area of High Archaeological Potential (MM270), covering 1.4 kilometres squared. This area is located to the south of the western third of the scheme and contained the originally proposed main site compound. The revised main site compound also extends into this Area of High Archaeological Potential and associated with the Romano-British settlement immediately to the south-west, shown in Appendix A1. As the Iron Age settlement (MM141) appears to be contained to the east of the Area of High Archaeological Potential and given that the revised main site compound only just extends into the north-eastern corner, it is considered that there is a moderate potential for archaeological remains associated with both the Iron Age and Romano-British period to be present within the revised main site compound.

Heritage assets

- 4.7.3 Table 4.1 outlines all heritage assets, their value and sensitivity that have been reassessed as a result of the proposed amendments to the red line boundary. Note that the Cultural Heritage assessment undertaken for the 2018 ES (APP-043) did not identify the Eyewell (MM02) as a receptor. However, as a result of the proposed amendments to the provision of access at the junction on Traits Lane and Blackwell Road, this receptor would be approximately 5 metres from the red line boundary. Therefore, the Eyewell has been identified as an additional receptor in the study area, included within Table 4.1. Table A1.4 of Appendix A provides a list of all heritage assets that have been scoped in or out of the assessment. An explanation is also provided, which outlines the reason why the asset has either been reassessed or not assessed.

Table 4.1 Reassessed heritage assets as a result of proposed revisions to the red line boundary

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of value	Value / sensitivity
GR01	MM01	Eyewell Group	Grade II	1039625; 1258875; 1258884	The asset group includes the grade II listed detached Eyewell House, associated outbuildings, and east boundary wall and gateway, all dating to 1924-1925. Despite the proximity to the current A303, the assets have a rural and tranquil setting which contributes to their value. Access to the property is via Traits Lane which joins the A303 to the north, however views the current A303 and along Traits Lane are heavily screened by large trees and sloping topography. The main façade of the property faces south, down the steep slope away from the A303, and key views from the property look across the surrounding rural and agricultural landscape. Views from the south looking north towards Eyewell House (see Figure 6.2 of the 2018 ES, APP-043), with the house set against a background of trees and farmland contributing to the value of heritage asset.	Medium
N/A	MM02	The Eyewell	Grade II	1039624	The asset is a medieval well cistern in a roadside bank. It is formed of a local lias stone enclosure with a slab lib and was likely a focal point for the old village of Queen Camel that was mostly destroyed by a fire in 1639. The roadside setting and location of the well is an integral part of the value of the asset.	Medium
N/A	MM03	Wales Dairy House	Grade II	1248857	The asset is a 17 th century detached farmhouse with subsequent 20 th century modifications, including porch. It was built using local lias stone with a double Roman clay tile roof. The rural and agricultural setting of the asset contribute to the value of the heritage asset.	Medium
N/A	MM18	The Blackwell	Grade II	1248858	The asset is a medieval well cistern on the river bank, consisting of a lias stone enclosure. It probably formed a focal point of the old village of Queen Camel which was largely destroyed by a fire in 1639. The roadside setting and location of the well is an integral part of the value of the asset.	Medium
GR07	MM40; MM46; MM48; MM49; MM53; MM54; MM64; MM93; MM149; MM150	Queen Camel Conservation Area Group	One grade I and 35 grade II in a Conservation Area	19738; 52363; 52353; 18506; 54443; 54439; 54437; 54428; 54633	The asset is a Conservation Area encompassing the majority of the medieval village of Queen Camel. There is 1 grade I listed building (the Church of St Barnabas) and 35 grade II listed buildings within the area, and further archaeological remains and features associated with the medieval village. The Conservation Area has a rural setting of quiet residential streets, which is integral to the character and value of the asset and is largely inward facing.	Medium

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of value	Value / sensitivity
GR08	MM41; MM56; MM57; MM59; MM60	West Camel Conservation Area Group	One grade I, 2 grade II* and 9 grade II in a Conservation Area	17817; 57192; 55874; 54638	The asset is a Conservation Area encompassing the majority of the medieval village of West Camel. There is 1 grade I listed building (the Church of All Saints), 2 grade II* listed buildings and 9 grade II listed buildings within the Conservation Area that would be assessed as a group within the Conservation Area. The Conservation Area has a rural setting of quiet residential streets, which is integral to the character and value of the asset and is largely inward facing.	Medium
N/A	MM276	Eyewell Farm	N/A	N/A	A farmhouse and associated buildings associated to the 17 th century with 20 th century modifications. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.	Medium
N/A	MM277	Stone barn fronting road, Wales Dairy	N/A	N/A	A 17 th century barn associated to a detached farmhouse. It was built using local lias stone with a double Roman clay tile roof. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.	Medium
N/A	MM64	The Mill	N/A	54438	Buried archaeological water mill. The asset is largely screened from the area which would contain the junction improvement works by trees and vegetation, and the rural setting contributes to the value of the asset.	Low
N/A	MM278	Stockwitch Farm	N/A	N/A	Historic farmstead with two storey farmhouse and single storey outbuildings. Majority of outbuildings have been converted to domestic accommodation. The farmstead retains its immediate rural setting to the north, However the historic rural setting to the south has been lost with the construction of RNAS Yeovilton.	Low
N/A	MM299	Roman unknown archaeological remains	N/A	N/A	This area is located to the south of the western third of the scheme and contained the originally proposed main site compound. The revised main site compound also extends into this Area of High Archaeological Potential and associated with the Romano-British settlement immediately to the south-west.	Low
N/A	MM300	Early medieval unknown archaeological remains	N/A	N/A	The location of the revised main site compound is situated immediately west of an Iron Age settlement revealed during the archaeological trench evaluation for the scheme. The settlement comprised 2 possible roundhouses within a small enclosure system. These archaeological remains are contained within the eastern part of the field, located to the east of the revised main site compound with the associated enclosure system seeming to be limited to this area also.	Low

4.8 Potential impacts

- 4.8.1 The potential impacts for cultural heritage have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.8 of the 2018 ES (APP-043) remains unchanged and valid.

4.9 Design, mitigation and enhancement measures

Design measures

- 4.9.1 Eyewell House and associated assets (MM01) would now be located 2.5 kilometres from the proposed cement bound granular mixture (CBGM) compound (this compound is shown on Figure A2.3 in Appendix B). As a result, mitigation that was specified in the 2018 ES (APP-043) in relation to Eyewell House and associated assets would no longer be required.

Construction mitigation

- 4.9.2 A programme of archaeological evaluation including geophysical survey and archaeological trenching is necessary in order to establish whether any archaeological remains associated with the adjacent Iron Age settlement, or the Romano-British settlement to the south-west, are present within this field. The archaeological trenching survey is to be undertaken in February 2019 and the results will be submitted during the DCO examination period. The results of the surveys will inform the mitigation strategy.
- 4.9.3 The Eyewell would be subject to protection measures during construction. These would include fencing surrounding the asset to prevent disturbance of the Eyewell. Protection measures, including type of fencing, location of fencing, method of erecting, maintaining and removing the protection measures would be agreed with South Somerset District Council.
- 4.9.4 The requirement for protection measures for heritage assets during construction is included within the Outline Environmental management Plan (APP--48) that has been produced to support the DCO application and would be developed into a full CEMP by the appointed contractor.

4.10 Assessment of likely significant effects

- 4.10.1 This section details likely significant effects with mitigation for heritage assets that have been reassessed as a result of the proposed changes to the red line boundary. Figure A4.1 of Appendix B, shows the updated plan of Heritage Assets with potential for likely significant effects to supersede Figure 6.1 of the 2018 ES (APP-116).
- 4.10.2 Table A1.4 of Appendix A provides a list detailing whether heritage assets have been identified for inclusion in the impact assessment undertaken for this ES Addendum, including an explanation for the decision.

Construction

4.10.3 Likely significant effects on heritage assets during construction are reported in Table 4.2. Where there is a temporary significant effect, but the permanent effect is not significant, and vice versa, the assessment for both temporary and permanent effects has been shown for completeness.

4.10.4 As a result of the proposed relocation of the CBGM auxiliary compound, the assessment of likely significant effects that had been concluded for Eyewell House and associated assets (MM01) in the original 2018 ES has been reassessed and is reported in Table 4.2.

Table 4.2: Temporary and permanent construction impacts

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/ sensitivity	Magnitude of impact	Significance of effect
GR01	MM01	Eyewell Group	Grade II	1029625 1258875 1258884	<p>Temporary – The location of a site compound for the duration of the construction phase, previously located 30 metres to the north of Eyewell House and associated assets, would be relocated to the proposed main site compound.</p> <p>The construction work, including additional noise and movement of plant, would have a limited impact on the setting of the asset, due to its orientation and taking into account the existing noise and traffic movements from the A303.</p> <p>Reduced Significant Adverse effects are predicted for Eyewell House and associated assets as a result of the relocation of the CBGM auxiliary compound to the proposed main site compound and removal of the compound from the red line boundary</p>	Medium	Minor	Slight Adverse
					<p>Permanent – The construction of the new alignment of the A303 would result in an increase in noise, however this would be in the context of the existing A303.</p>	Medium	No change	Neutral

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
N/A	MM02	The Eyewell	Grade II	1039624	Temporary – The asset is located within an area of permanent land acquisition to the north of the proposed junction improvements at Traits Lane and Blackwell Road. The Eyewell would be protected during construction to prevent damage. The loss of the setting within a green roadside verge would impact the ability to understand the value of the asset. Significant Adverse effects have therefore been identified for the Eyewell during construction.	Medium	Moderate	Moderate Adverse
					Permanent – The asset and its setting would be unchanged and therefore no significant adverse effects are predicted as a result.	Medium	No change	Neutral
N/A	MM03	Wales Dairy House	Grade II	1248857	Temporary – The construction works required for the junction improvements at Traits Lane and Blackwell Road would result in a temporary alteration to the setting of the heritage asset from vehicle movements, appearance of construction works and movement of plant.	Medium	Minor	Slight adverse

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
					Permanent - The construction and alteration of the existing junction would not be expected to alter the setting of the asset due to the contained setting of the asset, and its distance from the works.	Medium	No change	Neutral
N/A	MM18	The Blackwell	Grade II	1248858	Temporary - The construction works required for the junction improvements at Traits Lane and Blackwell Road would result in a temporary alteration to the setting of the heritage asset from vehicle movements, appearance of construction works and movement of plant.	Medium	Minor	Slight Adverse
					Permanent - The construction and alteration of the existing junction would not be expected to alter the setting of the asset, as it would retain its roadside setting.	Medium	No Change	Neutral

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
GR07	MM40; MM46; MM48; MM49; MM53; MM54; MM64; MM93; MM149; MM150	Queen Camel Conservation Area Group	One grade I and 35 grade II in a Conservation Area	19738; 52363; 52353; 18506; 54443; 54439; 54437; 54428; 54633	Temporary – There is the potential for an increase in noise during construction work, however this is in the context of the existing noise from the A303.	Medium	Negligible	Slight adverse
					The junction improvements at Traits Lane and Blackwell Road are considered likely to have a negligible impact on the Conservation Area as construction works would be contained 800 metres from Queen Camel.	Medium	No Change	Neutral
					Permanent – The alignment of the A303 would remain the same as the existing route at the westernmost end of the scheme. Therefore, it is considered that the scheme would have no change on the setting of the assets.			

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
GR08	MM41; MM56; MM57; MM59; MM60	West Camel Conservation Area Group	One grade I, 2 grade II* and 9 grade II in a Conservation Area	17817; 57192; 55874; 54638	<p>Temporary - There is the potential for an increase in noise during construction work, however this is in the context of the existing noise from the A303. During road closures traffic would be diverted through the eastern side of the Conservation Area. However, diversions would be for limited periods and avoid the majority of the asset.</p> <p>The junction improvements at Traits Lane and Blackwell Road are considered likely to have a negligible impact on the Conservation Area as construction works would be contained 1 kilometre from West Camel.</p>	Medium	Negligible	Slight adverse
					<p>Permanent – There would be no permanent change to the character or setting of the heritage asset.</p>	Medium	No change	Neutral
N/A	MM284	Eyewell Farm	N/A	N/A	<p>Temporary – The construction works required for the junction improvements at Traits Lane and Blackwell Road would result in a temporary alteration to the setting of the heritage asset from vehicle movements, appearance of construction works and movement of plant.</p>	Low	Minor	Slight Adverse

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
					Permanent - The construction and alteration of the existing junction would not be expected to alter the setting of the asset.	Low	No change	Neutral
N/A	MM282	Stone barn fronting road, Wales Dairy	N/A	N/A	Temporary - The construction works required for the junction improvements at Traits Lane and Blackwell Road would result in a temporary alteration to the setting of the heritage asset from vehicle movements, appearance of construction works and movement of plant.	Low	Minor	Slight Adverse
					Permanent - The construction and alteration of the existing junction would not be expected to alter the setting of the asset.	Low	No change	Neutral
N/A	MM64	The Mill	N/A	54438	Temporary – The construction works required for the junction improvements at Traits Lane and Blackwell Road would result in a temporary alteration to the setting of the heritage asset from vehicle movements, appearance of construction works and movement of plant.	Low	Minor	Slight adverse
					Permanent - The construction and alteration of the existing junction would not be expected to alter the setting of the asset, as it would retain its rural setting.	Low	No change	Neutral

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
N/A	MM285	Stockwitch Farm	N/A	N/A	Temporary – rural setting to the north of the asset would be disturbed by the appearance of the worksite and increase in noise and plant movements. This would be limited due to the distance of the asset from the proposed worksite.	Low	Minor	Slight adverse
					Permanent – there would be no change to the setting of the heritage asset following reinstatement of the land to the north of the heritage asset.		No change	Neutral
N/A	MM299	Roman unknown archaeological remains	N/A	N/A	Temporary – There are no significant temporary effects predicted to occur during the construction phase. Any unknown archaeological assets would be permanently removed and therefore impacts would be permanent.	Low	No change	Neutral
					Permanent – The construction of the scheme and associated infrastructure has the potential to result in permanent removal or truncation of Roman archaeological remains. To offset negative impacts, following results of archaeological trench evaluation. If remains are present and it is not possible to retain them in situ an appropriate archaeological level of recording would be undertaken in accordance with an agreed WSI.		Major	Large Adverse

Group no.	MM no.	Name	Designation	NHLE/HER No(s).	Description of impact	Value/sensitivity	Magnitude of impact	Significance of effect
N/A	MM300	Early medieval unknown archaeological remains	N/A	N/A	<p>Temporary – There are no significant temporary effects predicted to occur during the construction phase. Any unknown archaeological assets would be permanently removed and therefore impacts would be permanent.</p> <p>Permanent – The construction of the scheme and associated infrastructure has the potential to result in permanent removal or truncation of Roman archaeological remains.</p> <p>To offset negative impacts, following results of archaeological trench evaluation. If remains are present and it is not possible to retain them in situ an appropriate archaeological level of recording would be undertaken in accordance with an agreed WSI.</p>	Low	No change	Neutral
							Major	Large Adverse

4.10.5 Table 4.3 presents an assessment of effects on all relevant heritage assets during operation of the scheme as a result of the proposed changes to the red line boundary.

Table 4.3: Operational impact assessment

Group no.	MM no.	Name	Designation	NHLE / HER no(s).	Description of impact	Value / sensitivity	Magnitude of impact	Significance of effect
GR01	MM01	Eyewell Group	Grade II	1029625 1258875 1258884	There is the potential for an increase in traffic noise to be experienced at the asset during operation. However, this would be in the context of the existing A303 noise, reducing the impact on the setting of the asset.	Medium	Negligible	Slight adverse
N/A	MM02	The Eyewell	Grade II	1039624	No change would be expected to the setting of the asset.	Medium	No change	Neutral
N/A	MM03	Wales Dairy House	Grade II	1248857	No change would be expected to the setting of the asset.	Medium	No change	Neutral
N/A	MM18	The Blackwell	Grade II	1248858	No change would be expected to the setting of the asset.	Medium	No change	Neutral
GR07	MM40; MM46; MM48; MM49; MM53; MM54; MM64; MM93; MM149; MM150	Queen Camel Conservation Area Group	One grade I and 35 grade II in a Conservation Area	19738; 52363; 52353; 18506; 54443; 54439; 54437; 54428; 54633	There is the potential for an increase in traffic noise to be experienced at the asset during operation. However, the asset lies approximately 700m from the A303 and any increase in noise from the scheme during operation would be in the context of the existing A303 noise, reducing the impact on the setting of the asset.	Medium	Minor	Slight adverse
GR08	MM41; MM56; MM57; MM59; MM60	West Camel Conservation Area Group	One grade I, 2 grade II* and 9 grade II in a Conservation Area	17817; 57192; 55874; 54638	There is the potential for an increase in traffic noise to be experienced at the asset during operation. However, the asset lies approximately 700m from the A303 and any increase in noise from the scheme during operation would be in the context of the existing A303 noise, reducing the impact on the setting of the asset.	Medium	Negligible	Neutral

Group no.	MM no.	Name	Designation	NHLE / HER no(s).	Description of impact	Value / sensitivity	Magnitude of impact	Significance of effect
N/A	MM284	Eyewell Farm	N/A	N/A	No change would be expected to the setting of the asset.	Medium	No Change	Neutral
N/A	MM282	Stone barn fronting road, Wales Dairy	N/A	N/A	No change would be expected to the setting of the asset.	Medium	No Change	Neutral
N/A	MM64	The Mill	N/A	54438	No impact is expected during operation.	Low	No Change	Neutral

4.11 Monitoring

4.11.1 The monitoring requirements for cultural heritage have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 6.11 of the 2018 ES (APP-043) remains unchanged and valid.

4.12 Conclusions

4.12.1 Medium to high value assets have been identified within the study area, that have the potential to be impacted by the scheme, including assets that were originally scoped out during the previous scoping exercise. These include the following designated heritage assets: Eyewell (MM02), Wales Dairy House (MM03) and Blackwell (MM18). Additional non-designated assets identified to be included in the assessment include Eyewell Farm (MM276); Stone barn, Dairy Wales (MM277), The Mill, and Queen Camel (MM64). Queen and West Camel Conservation Areas (GR07 and GR08 respectively) were scoped into the 2018 ES detailed assessment (APP-43) and remain relevant following the scheme changes.

4.12.2 The proposed amendments to the scheme design, outlined in Chapter 2 of this ES Addendum (APP-039), would result in changes to the likely significance of effect for identified heritage assets. The assessment has reported reduced Significant Adverse effects for Eyewell House and associated assets (MM01), as a result of the proposed relocation of the CBGM auxiliary compound to the proposed main site compound and removal of the compound from the red line boundary.

4.12.3 In addition to the Significant Adverse effects for identified heritage assets in the 2018 ES (APP-043), temporary Significant Adverse effects have been identified for the Eyewell (MM02) during construction. This is due to the proposed junction improvements at Traits Lane and Blackwell Road.

4.12.4 No likely significant permanent construction effects or likely significant operational effects have been identified for any heritage assets within the 1-kilometre study area in relation to the proposed junction improvements at Traits Lane and Blackwell Road. It can be confirmed that The Eyewell (MM02) would not be disturbed, nor would its setting upon the grass verge be lost.

4.12.5 The proposed main site compound increases the likelihood of effects upon unknown buried archaeology but this is not considered to change the significance of the effect.

4.12.6 The figures, excluding those where changes have been described in Table 1.1, supporting Chapter 4 of the 2018 ES (APP-041) remain valid for this ES Addendum.

5 Landscape

5.1 Introduction

- 5.1.1 Chapter 7 of the 2018 ES (APP-044) considers the likely significant effects of the proposed scheme upon the surrounding landscape character and visual receptors. This ES Addendum chapter considers only the likely significant effects of the proposed red line boundary changes on the surrounding landscape character and visual receptors.
- 5.1.2 Appendix A2 addresses the changes to the Arboricultural Constraints Report (Appendix 7.1 of the 2018 ES (APP-069)) as a result of the proposed changes to the scheme design and red line boundary as described in Chapter 2 of this ES Addendum (APP-039). Similarly, Appendix A3 addresses the changes to the Arboricultural Impact Assessment (Appendix 7.2 of the 2018 ES (APP-070)).

5.2 Competent expert evidence

- 5.2.1 The competent expert advice for landscape has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 7.2 of the 2018 ES (APP-044) remains unchanged and valid.

5.3 Legislative and policy framework

- 5.3.1 The legislative and policy framework for landscape has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 7.3 of the 2018 ES (APP-044) remains unchanged and valid.

5.4 Assessment methodology

- 5.4.1 The assessment methodology for landscape has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 7.4 of the 2018 ES (APP-044) remains unchanged and valid.

5.5 Assessment assumptions and limitations

- 5.5.1 The assessment assumptions and limitations for landscape have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 7.5 of the 2018 ES (APP-044) remains unchanged and valid.

5.6 Study Area

- 5.6.1 The definition of the study area identified for the assessment remain as identified within Section 12.6 of the 2018 ES (APP-044). Therefore, the text within Section 12.6 of the 2018 ES (APP-044) remains unchanged and valid. However, the extent of the study area for the purposes of this ES Addendum is based upon the proposed changes to the red line boundary and can be seen in Figure A5.1 of Appendix B, Zone of Theoretical Visibility which supersedes Figure 7.1 of the 2018 ES (APP-117).

5.7 Baseline conditions

Landscape Character

5.7.1 The location and extent of each Landscape Character Area (LCA) within the study area can be found in Figure 7.4 of Volume 6.2 of the 2018 ES (APP-120) and should be read in conjunction with Figure A2.2 of Appendix B showing the proposed changes to the temporary works areas including a revised compound layout. No new LCAs have been identified within the updated study area.

Visual Baseline

5.7.2 In addition to the visual receptors reported in Paragraph 7.7.29 of the 2018 ES (APP-044), 1 further visual receptor group, addressing a residential property and Public Right of Way (PRoW), has been identified due to the proposed changes to the access to Blackwell Farm. This receptor group is situated on the corner of Traits Lane and Blackwell Road, as shown in Figure A5.2 of Appendix B, Visual Receptor Plan.

5.8 Potential impacts

5.8.1 The potential impacts for landscape have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 7.8 of the 2018 ES (APP-044) remains unchanged and valid.

5.9 Design, mitigation and enhancement measures

5.9.1 The design, mitigation and enhancement measures for landscape have not changed due to the proposed amendments to the scheme design. However, the measures are now required for new areas due to the proposed amendments to the scheme design. The Environmental Masterplan has been updated to show the design measures required from a landscape perspective, shown in Figure A2.4. The text within Section 7.9 of the 2018 ES (APP-044) remains unchanged and valid.

5.10 Assessment of likely significant effects

Construction

Landscape

LCA 6 West Camel and Wales

5.10.1 The proposed removal of the CBGM auxiliary compound and the proposed changes to the main site compound reduces the area of construction compounds lying within LCA 6. This would reduce the effect from construction activities upon LCA 6. However, the proposed changes to the main site compound would still appear at odds within the landscape context and the elevation would exacerbate the disruption, especially to tranquillity.

5.10.2 The proposed reduction in compound area within LCA 6 would not affect the overall assessment score which would remain as a Moderate Adverse effect as reported in Paragraph 7.10.11 in the 2018 ES (APP-044).

LCA 7 Yeovilton

5.10.3 The proposed main site compound would now fall partly within the extents of the north east corner of this LCA and partly within LCA 6 whereas before the compound fell entirely within the extents of LCA 6.

5.10.4 Previously an indirect effect was described (Paragraph 7.10.12 of the 2018 ES (APP-044)) due to the presence of the main site compound within the directly adjacent LCA 6. However, in light of the proposed scheme updates the position of the proposed revised main site compound would lie within LCA 7. Therefore, there would be a direct impact upon LCA 7 due to the presence of the compound and associated features and activity, including the provision of a CBGM batching plant, being at odds with surrounding landscape context. Given the activities proposed there would likely be a decrease in both visual and audible tranquillity as a result of the proposed new compound location.

5.10.5 The proposed placement of the site compound in the north east of the LCA is likely to result in a Moderate magnitude of impact within a Low sensitivity LCA. This would result in a Slight Adverse effect on the LCA overall during construction. This is an increase from the Negligible significance of effect reported in Paragraph 7.10.13 of the 2018 ES (APP-044).

Visual

5.10.6 The additional visual receptor group now being considered in the assessment as a result of the proposed updates to the scheme design is of High sensitivity and would experience Moderate Adverse effects during construction as described in Table 5.1 below, which has been extracted from Appendix A4. In addition, the proposed removal of the CGMB auxiliary compound from the red line boundary has changed the proposed views for 9 receptor groups as seen in Appendix A4, however the significance of effect would remain the same for these receptor groups.

5.10.7 The additional receptor brings the total number of receptors being considered to 46. Including this additional visual receptor, 15 out of the 46 would experience significant effects. Of these receptors 1 would experience a Very Large Adverse effect, 6 would experience Large Adverse effects and the remaining 8 would experience Moderate Adverse effects (Paragraph 7.10.16 of the 2018 ES (APP-044)). There would therefore be 1 additional significant adverse effect to those reported in Chapter 7 of the 2018 ES (APP-044). Figure A5.3 of Appendix A, Visual Impacts Plan, shows the location of each visual receptor and the corresponding assessment scores for both construction and operation.

Table 5.1 Effects upon visual receptors during construction

Visual receptor number	Visual receptor	Existing view	Proposed view during construction	Effects on visual receptors
46	Representative of view from Eye Well Bungalow residential receptor and PRow WN 23/36 (High sensitivity)	<p>Short distance view from Eye Well Bungalow, looking south, comprises an orchard in the southern extents of the property boundary, fence lines and a low hedgerow along the eastern and western property boundaries. The existing junction of Traits Lane with Blackwell Road is currently perceptible in the view. The background of the view is comprised of field boundary vegetation.</p> <p>The view looking north from PRow WN 23/36 comprises immediate views of properties adjacent to Traits Lane, including a low boundary hedgerow, a fence line and an orchard in the immediate foreground. Narrow views up Traits Lane are also afforded. Long distance views can be seen over the low hedge on the eastern side of Traits Lane, across arable fields with mature vegetation and Queen Camel Radio Station forming the background of the view in the far distance. In the middle distance of the view boundary hedgerows, several electricity pylons and associated overhead lines traverse the fields.</p> <p>There are no views available of the A303.</p>	<p>It is expected that there would be a noticeable change in the view during construction. This would be due to the proximity of construction activities and plant required for the junction widening, as well as the encroachment into the southern section of the garden of Eye Well Bungalow, which would bring works closer in view looking south from the property. Small lengths of hedgerow and fence lines would also be temporarily removed from the property as part of the widening works.</p> <p>Short distance direct views would be available from the PRow WN 23/36 to the construction area and associated activities. Given the localised scale and temporary nature of the works, overall it is considered there would be a Moderate magnitude of impact resulting in a Moderate Adverse effect from this receptor group.</p>	Moderate Adverse

Operation

Landscape

LCA 6 West Camel and Wales

5.10.8 The proposed reduced area of construction compounds lying within LCA 6 would not change the significance of effect reported in Paragraph 7.10.32 of the 2018 ES (APP-044) which would remain Slight Adverse during Year 1 and Negligible during Year 15.

LCA 7 Yeovilton

5.10.9 In Year 1 of operation, temporary haulage routes and compounds would have been returned to their previous use and conditions, where not permanently acquired for the scheme. Where hedgerows would be removed during construction to accommodate temporary works they would be reinstated. In Year 1 these would resemble whips planted in tubes, however by Year 15 these would have established to restore field boundaries and their pattern. Therefore, the significance of effect would be Slight Adverse during Year 1 of operation and Negligible during Year 15 of operation.

Visual

5.10.10 The additional visual receptor now being assessed as a result of the proposed updates to the scheme design would experience a Slight Adverse effect during Year 1 of operation and a Neutral effect during Year 15 as described in Table 5.2 below, which has been extracted from the Appendix A4.

5.10.11

Table 5.2 Effects upon visual receptors during operation

Visual receptor number	Visual receptor	Existing view	Proposed view during operation	Effects on visual receptors
46	Representative of view from Eye Well Bungalow residential receptor and PRow WN 23/36 (High sensitivity)	<p>Short distance view from Eye Well Bungalow, looking south, comprises an orchard in the southern extents of the property boundary, fence lines and a low hedgerow along the eastern and western property boundaries. The existing junction of Traits Lane with Blackwell Road is currently perceptible in the view. The background of the view is comprised of field boundary vegetation.</p> <p>The view looking north from PRow WN 23/36 comprises immediate views of properties adjacent to Traits Lane, including a low boundary hedgerow, a fence line and an orchard in the immediate foreground. Narrow views up Traits Lane are also afforded. Long distance views can be seen over the low hedge on the eastern side of Traits Lane, across arable fields with mature vegetation and Queen Camel Radio Station forming the background of the view in the far distance. In the middle distance of the view boundary hedgerows, several electricity pylons and associated overhead lines traverse the fields. There are no views available of the A303.</p>	<p>During operation it is predicted that overall there would be a minor change to the magnitude of impact in this view in Year 1. This would be due to the proposed new intersection appearing similar in nature, albeit slightly wider and closer than the baseline view given the works would bring the junction slightly closer to Eye Well Bungalow. This would result in a Slight Adverse effect in Year 1 as any replacement planting would have yet to establish, however any boundary fencing would have been fully reinstated.</p> <p>By Year 15, due to the replacement of lost elements along the property's boundaries (fence line and hedgerow) it is predicted that there would be a minor magnitude of change at worst due to the continued foreshortening of the property garden. This would lead to a Slight Adverse effect at worst.</p>	<p>Year 1: Slight Adverse Year 15: Slight Adverse</p>

5.11 Monitoring

5.11.1 The monitoring requirements for landscape have not changed due to the proposed amendments to the scheme design. However, the construction monitoring detailed in paragraph 7.11.1 of the 2018 ES (APP-044) is now

valid for the residential receptors in the vicinity of the proposed amended access to Blackwell Farm.

5.12 Conclusions

- 5.12.1 The proposed amendments to the scheme design, outlined in Chapter 2 of this ES Addendum, would result in a change to the conclusions of the assessment of effects in the 2018 ES (APP-044). The number of receptors experiencing adverse effects would increase. The proposed amendments to the scheme design would increase the number of receptors experiencing significant effects in construction, but not during operation.
- 5.12.2 LCA 7 would experience not significant Slight Adverse effects instead of the previously assessed Negligible Adverse effects during construction.
- 5.12.3 The additional visual receptor, 46, would experience significant Moderate Adverse effects during construction and not significant Slight Adverse effects during Year 1 and Year 15 of operation.
- 5.12.4 The figures and technical appendices supporting Chapter 7 of the 2018 ES (APP-044), excluding those where changes have been described in Table 1.1, remain valid.

6 Biodiversity

6.1 Introduction

6.1.1 Chapter 8 of the 2018 ES (APP-045) describes the likely significant effects of the scheme on biodiversity. This ES Addendum chapter considers only the likely significant effects of the proposed red line boundary changes on biodiversity.

6.2 Competent expert evidence

6.2.1 The competent expert advice for biodiversity has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 8.2 of the 2018 ES (APP-045) remains unchanged and valid.

6.3 Legislative and policy framework

6.3.1 The legislative and policy framework for biodiversity has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 8.3 of the 2018 ES (APP-045) remains unchanged and valid.

6.4 Assessment methodology

6.4.1 The assessment methodology for biodiversity has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 8.4 of the 2018 ES (APP-045) remains unchanged and valid.

6.5 Assessment assumptions and limitations

6.5.1 The assessment assumptions and limitations for biodiversity have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 8.5 of the 2018 ES (APP-045) remains unchanged and valid.

6.6 Study Area

6.6.1 The definition of the study area identified for the assessment remain as identified within Section 8.6 of the 2018 ES (APP-045). Therefore, the text within Section 8.6 of the 2018 ES (APP-045) remains unchanged and valid. However, the extent of the study area for the purposes of this ES Addendum is based upon the proposed changes to the red line boundary.

6.7 Baseline conditions

6.7.1 The baseline conditions for biodiversity have not changed due to the proposed scheme design amendments except the areas for different habitats within the red line boundary shown in Table 8.5 of the 2018 ES (APP-045). Therefore, the text presented in Section 8.7 of the 2018 ES (APP-045) remain valid with the exception of Table 8.5 of the 2018 ES (APP-045) which has been updated as shown in Table 6.1 below.

Table 6.1 Habitat area within the red line boundary

Site name / floral or faunal group	Description
Hedgerows	<ul style="list-style-type: none"> • There are 14,481 metres of hedgerow habitat within the scheme boundary.
Broadleaved Semi-Natural Woodland	<ul style="list-style-type: none"> • Within the scheme boundary, there are 3.06 hectares of this habitat type which represents 2.6% of the overall scheme extent.
Broadleaved and Mixed Plantation Woodland	<ul style="list-style-type: none"> • There are 0.98 hectares of plantation woodland within the scheme boundary. This represents 0.8% of the overall scheme extent.
Parkland	<ul style="list-style-type: none"> • There are 0.8 hectares of broadleaved parkland scattered trees within the scheme boundary. This represents 0.7% of the overall scheme extent. One veteran tree would be lost as a result of the scheme.
Calcareous grassland	<ul style="list-style-type: none"> • There are 0.06 hectares of calcareous grassland within the scheme boundary. This represents 0.05% of the overall scheme extent.
Poor semi-improved neutral grassland	<ul style="list-style-type: none"> • There are 20.68 hectares of semi-improved neutral grassland within the scheme boundary. This represents 17.4% of the overall scheme extent.
Improved Grassland	<ul style="list-style-type: none"> • Areas of improved grassland were present across the scheme red line boundary and were either grazed or frequently mown. • There are 22.86 hectares of improved grassland within the scheme red line boundary. This represents 18% of the overall scheme extent.
Arable	<ul style="list-style-type: none"> • Arable land was the dominant habitat within the surveyed area. The fields were subject to a regular management regime and had few field margins. There are 40.40 hectares of arable fields within the scheme red line boundary. This represents 38.3% of the overall scheme extent.
Amenity Grassland	<ul style="list-style-type: none"> • Areas of intensively managed amenity grassland were recorded surrounding residential and commercial properties throughout the surveyed area. There are 1.1 hectares of amenity grassland within the scheme red line boundary. This represents 0.9% of the overall scheme extent.
Ponds	<ul style="list-style-type: none"> • 62 ponds were identified within 500 metres of the surveyed area. They are present across the scheme red line boundary but are predominantly located to the north of the A303 and concentrated within the arable and improved grassland fields.
Wet Ditch	<ul style="list-style-type: none"> • There are 5 ditches within and adjacent to the scheme red line boundary. These are generally dry or with shallow water levels. They have limited aquatic vegetation and some marginal vegetation overgrowing into the ditches. They are predominantly field drains, bordered by hedgerows and poor semi-improved grassland. • There are 1,375 metres of ditch habitat within and adjacent to the scheme red line boundary.

6.8 Potential impacts

6.8.1 In addition to the potential impacts on ecological receptors identified within paragraphs 8.8.1 and 8.8.2 of the 2018 ES (APP-045), the proposed changes in the main compound location would require access for construction vehicles across a ditch, identified in the 2018 ES (APP-045) as a priority habitat. The ditch would be crossed at 2 points to allow access between two arable land

parcels. This would involve installing a cement pipe within the ditch and infilling with stone. This could potentially result in damage to the bank structure and habitat.

6.9 Design, mitigation and enhancement measures

Mitigation measures

Construction

6.9.1 In addition to the proposed mitigation measures detailed within paragraphs 8.9.25 to 8.9.30 of the 2018 ES (APP-045), it is proposed that works to install access across the ditch would be supervised by an Ecological Clerk of Works in order to ensure that access is positioned at the most appropriate place to minimise potential habitat degradation. Once works have been completed, the ditch habitat would be reinstated and enhanced. This would include removal of any material used to construct the crossing and planting of aquatic and marginal vegetation species in line with the landscape masterplan.

6.10 Assessment of likely significant effects

Construction

Designated Sites

6.10.1 The distance to designated sites remains sufficient that the relocation of concrete batching activities, proposed changes to the main site compound and changes to access arrangements to Blackwell Farm would not alter the effect of the scheme on designated sites which would remain Neutral during construction as reported in Paragraph 8.10.1, 8.10.2, 8.10.3 and 8.10.7 of the 2018 ES (APP-045).

Priority habitats

6.10.2 Table 8.9 from the 2018 ES (APP-045) has been amended to reflect the proposed changes to the red line boundary and proposed changes in access arrangements to Blackwell Farm shown in Table 6.2 below.

Table 6.2 Type and area of habitat affected during construction

Habitat type	Habitat loss
Hedgerows*	Native species rich intact: 7,116.6 linear metres
	Native species poor intact: 3010.88 linear metres
	Native species poor defunct: 454.23 linear metres
Broadleaved Semi-Natural Woodland*	1.63 ha
Broadleaved and Mixed Plantation Woodland*	0.85 ha
Parkland*	0.8 ha
Calcareous grassland*	0.06 ha
Ponds*	2 dry ponds
Arable	46.55 ha
Poor semi-improved grassland	20.68 ha
Improved grassland	21.41 ha
Amenity grassland	1.1 ha
Scrub	0.99 ha

***priority habitats**

Hedgerows

- 6.10.3 The additional removal of hedgerows would be required due to the proposed updates to the scheme design and red line boundary. Removal of 102 metres of species rich hedgerow would be required for works to facilitate access to Blackwell Farm. At the proposed main site compound location, 2 sections of species-poor hedgerow, each being 10 metres in length, extending southwards from the existing A303, require removal for access. All areas of hedgerow would be reinstated post construction. A 10-metre buffer would be retained between the remaining areas of hedgerow and any works.
- 6.10.4 The proposed changes to the scheme and red line boundary would result in an additional 30.5 metres of hedgerow requiring removal. The total hedgerow loss as a result of the full scheme is therefore calculated to be approximately 10.58 kilometres. Of this approximate total, 2.8 kilometres would be a permanent loss and 7.78 kilometres would be a temporary loss to be reinstated following construction.
- 6.10.5 Of the 10.58 kilometres of hedgerow requiring to be removed, approximately 7 kilometres is species-rich, with 4.58 kilometres of this species-rich hedgerow considered important under the Hedgerow Regulations. It is anticipated that a Moderate Adverse effect would remain likely during construction as reported in paragraph 8.10.14 of the 2018 ES (APP-045).
- 6.10.6 The Hedgerow Technical Report, Appendix 8.3 of Volume 6.3 of the 2018 ES (APP-076), has been updated to reflect the changes to the scheme design, shown in Appendix A5 of this ES Addendum.

Ponds and Ditches

- 6.10.7 The proposed changes in the main compound location would require access for construction vehicles across a ditch, identified in the 2018 ES (APP-045) as a priority habitat. The 2018 ES (APP-045) describes the ditch being isolated from other watercourses; having shallow water and bank side habitat not being structurally diverse, with limited aquatic vegetation and marginal vegetation overgrowing into the ditch. Therefore, it is considered to be low value for biodiversity.
- 6.10.8 With mitigation measures in place, as detailed within Section 6.9 above and due to the small area and low value of ditch to be affected (2 sections, each 10 metres in length), the impact assessment on ponds and ditches during construction remains as Neutral as reported in paragraph 8.10.21 in the 2018 ES (APP-045).

Protected species

Badgers

- 6.10.9 No badger (*Meles meles*) setts have been recorded within 30 metres of the area of the proposed main site compound as with the previously main site compound. Additionally, the bait marking surveys did not confirm the present of any badger territories extending over either of these areas.
- 6.10.10 The proposed works for access to Blackwell Farm are within the extent of a badger territory. However, no badger setts have been identified within 30 metres of the proposed works and no badger signs have been recorded at

this location over the course of ecological surveys completed for the scheme. Therefore, proposed changes to access arrangements for Blackwell Farm would not increase the effect of the scheme on badgers.

- 6.10.11 It is therefore concluded that the overall significance of effect on badgers for the scheme would remain as a Slight Adverse effect during construction as reported in paragraph 8.10.25 of the 2018 ES (APP-045).

Bats

- 6.10.12 No trees or buildings with bat roosting potential have been identified within proximity of the proposed main site compound.
- 6.10.13 In addition, during bat activity surveys, low levels of bat activity, comprising only common bat species, were recorded within the proposed compound location, with no bats at all recorded during surveys completed in April and May 2017. The hedgerow running north to south through this area would be subject to temporary habitat loss as two 10 metre sections would be removed during construction. However, this hedgerow was not found to be of value to foraging/ commuting bats. Higher levels of bat activity were recorded within the original CBGM compound (Refer to Figure E.9 of Appendix 8.4 Bat Technical Report of the 2018 ES (APP-077)). Therefore, the proposed changes would also provide a better solution for foraging and commuting bats.
- 6.10.14 There would be a temporary loss of 102 metres of species-rich hedgerow to accommodate the proposed changes to access provision to Blackwell Farm. However, this area of hedgerow is closely managed and likely to be of relatively low value to commuting bats. It would be reinstated once works have been completed.
- 6.10.15 Given the information presented above, it is considered that the overall significance of effect on bats during construction would remain Moderate Adverse as reported in paragraph 8.10.29 of the 2018 ES (APP-045).
- 6.10.16 The Bat Technical Report, Appendix 8.4 of Volume 6.3 of the 2018 ES (APP-077), has been updated to reflect the changes to the scheme design, shown in Appendix A6.

Breeding birds

- 6.10.17 The original CBGM auxiliary compound was found to support a high species richness and low species abundance of breeding birds. The proposed main site compound location was found to support low species richness and low species abundance.
- 6.10.18 In terms of notable species, a skylark (*Alauda Arvensis*) territory was recorded within the proposed main site compound location, although a territory for this species was also recorded in the adjacent field (the former main compound), which would now not be affected by works. Mistle thrush and skylark are Red List Birds of Conservation Concern (BOCC) and dunnock is an Amber List BOCC. Dunnock and skylark are also listed under Section 41 of the NERC Act 2006. No notable species were recorded at the original or proposed works areas for access to Blackwell Farm.

6.10.19 The proposed changes would result in an increased loss of hedgerow habitat, suitable for nesting birds (30 metres). However, given the lower value of the proposed main site compound location for breeding birds and notable species, the changes represent a slight betterment for breeding bird species.

6.10.20 Due to impacts on breeding bird species elsewhere on the scheme, it is anticipated that the significance of effect on breeding birds during construction would remain Slight Adverse as reported in 8.10.32 of the 2018 ES (APP-045).

Barn owls

6.10.21 The proposed compound location is unsuitable for foraging barn owls (*Tyto alba*) however, the proposed changes in proposed works for access to Blackwell Farm would result in a reduced loss of 0.2 hectares, of Type 2 barn owl foraging habitat.

6.10.22 The proposed changes presented in the ES Addendum would not affect barn owl roosting, resting, nesting or breeding sites, and it is anticipated that the significance of effect on breeding birds during construction would remain Moderate Adverse as reported in paragraph 8.10.36 of the 2018 ES (APP-045).

Great crested newts

6.10.23 The proposed site compound would require changes in temporary arable land take within 500 metres of the Downhead great crested newts (GCN), (*Triturus cristatus*), population. However, the existing A303 provides a barrier to dispersal of GCN between the Downhead breeding ponds and the (original and revised) compound locations and therefore this population would be unaffected by the changes.

6.10.24 The proposed site compound would require changes in temporary arable land take within 500 metres of a pond supporting GCN (although not a breeding pond). The area of arable land to be utilised for the scheme within the 500-metre buffer of the pond would be similar. Intensively managed arable land provides very poor terrestrial habitat for GCN and therefore, these changes would not affect the assessment of impacts of the scheme on GCN.

6.10.25 Due to the proposed changes caused by the updates to the scheme design, the significance of effect through construction on GCN would remain Slight Adverse as reported in paragraph 8.10.41 of the 2018 ES (APP-045).

Reptiles

6.10.26 The proposed main compound location would result in an increased land take of arable land. However, this habitat type is of negligible suitability for reptiles as a terrestrial habitat.

6.10.27 On balance the significance of effect would remain Slight Adverse as reported in paragraph 8.10.43 of the ES (APP-045).

6.10.28 The Reptile Technical Report, Appendix 8.7 of Volume 6.3 of the 2018 ES (APP-080), has been updated to reflect the changes to the scheme design, shown in Appendix A7.

Invertebrates

6.10.29 Areas of the scheme where design changes are proposed were scoped out of the invertebrate survey as these areas were assessed to be of low value for notable invertebrate species. Therefore, the significance of effect on invertebrate species would remain as Slight Adverse during construction, as reported in paragraph 8.10.44 (APP-045).

Riparian mammals

6.10.30 The ditch that runs through the proposed main site compound was scoped out of the water vole (*Anguis fragilis*) and otter (*Lutra lutra*) surveys due to the limited habitat available and poor connectivity of this ditch. The proposed changes to the scheme design would not affect any other watercourses therefore the significance of effect on riparian mammals during construction would remain Neutral as reported in paragraph 8.10.46 of the 2018 ES (APP-045).

Operation

6.10.31 The proposed changes to the scheme design are not anticipated to affect the operational assessment upon designated sites, habitats or protected species. Changes relating to the site compounds would only result in impacts during the construction phase, with habitats, including hedgerows, to be reinstated upon completion of construction activities. Ecological receptors surrounding the proposed access track to Blackwell Farm would not be subject to greater noise, vibration, lighting or air quality effects as the track would only be used by very low numbers of vehicles associated with the farm. Therefore, the assessment presented within Section 8.10.47 to 8.10.70 of the 2018 ES (APP-045) remain valid.

6.11 Monitoring

6.11.1 The monitoring requirements for biodiversity have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 8.11 of the 2018 ES (APP-045) remains unchanged and valid.

6.12 Conclusions

6.12.1 The proposed amendments to the scheme design, outlined in Chapter 2 of this ES Addendum, would result in no change to the conclusions of the assessment of effects in the 2018 ES (APP-045).

6.12.2 The figures and technical appendices, excluding those where changes have been described in Table 1.1, supporting Chapter 8 of the 2018 ES (APP-045) remain valid to this ES Addendum.

7 Noise and Vibration

7.1 Introduction

7.1.1 Chapter 11 of the 2018 ES (APP-048) considers the likely significant effects of the proposed scheme on noise and vibration. This ES Addendum chapter considers only the likely significant effects of the proposed red line boundary changes on noise and vibration.

7.2 Competent expert evidence

7.2.1 The competent expert advice for noise and vibration has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.2 of the 2018 ES (APP-048) remains unchanged and valid.

7.3 Legislative and policy framework

7.3.1 The legislative and policy framework for noise and vibration has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.3 of the 2018 ES (APP-048) remains unchanged and valid.

7.4 Assessment methodology

7.4.1 The assessment methodology for noise and vibration has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.4 of the 2018 ES (APP-048) remains unchanged and valid.

7.5 Assessment assumptions and limitations

7.5.1 The assessment assumptions and limitations for noise and vibration have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.5 of the 2018 ES (APP-048) remains unchanged and valid.

7.6 Study Area

7.6.1 The definition of the study area identified for the assessment remain as identified within Section 11.6 of the 2018 ES (APP-048). Therefore, the text within section 11.6 of the 2018 ES (APP-048) remains unchanged and valid. The operational study area remains as reported in the 2018 ES as traffic flows have not changed due to the proposed scheme amendments. However, the extent of the construction study area for the purposes of this ES Addendum is based upon the proposed red line boundary.

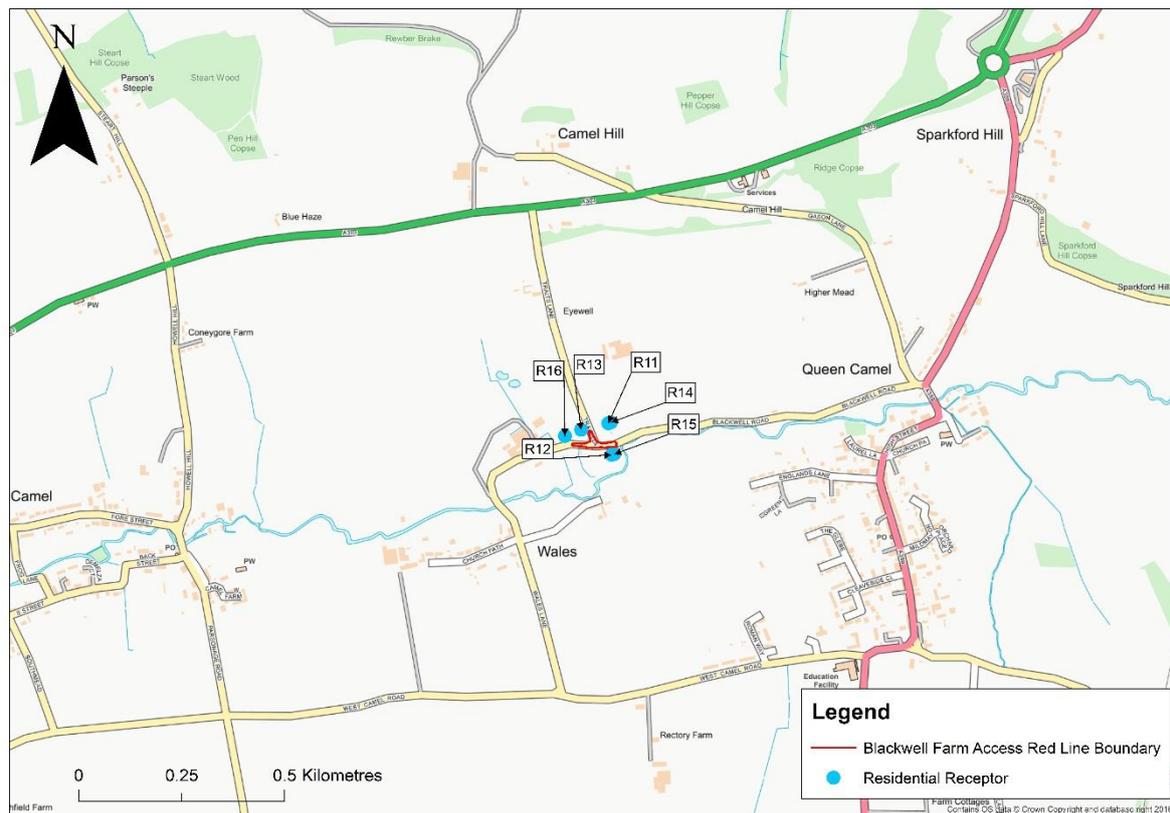
7.7 Baseline conditions

Soundscape and existing area

7.7.1 The proposed changes to the scheme design result in additional 4 residential receptors being identified within the updated construction noise study area,

see Figure 7.1 below. The closest of these receptors is within 10 metres of the works to the proposed amended Blackwell Farm access.

Figure 7.1 Residential receptors within 50 metres of the amended Blackwell Farm access



7.8 Potential impacts

7.8.1 The potential impacts for noise and vibration have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.8 of the 2018 ES (APP-048) remains unchanged and valid.

7.9 Design, mitigation and enhancement measures

7.9.1 The design, mitigation and enhancement measures for noise and vibration have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.9 of the 2018 ES (APP-048) remains unchanged and valid.

7.10 Assessment of likely significant effects

Construction

Site compounds

7.10.1 The site compound changes outlined within Chapter 2 detail the proposed relocation of the main compound west to the adjacent field. The enlarging of the main compound allows the relocation of the CBGM from the current CBGM auxiliary compound, Area G in Figure A2.3, to the new enlarged main

compound and removal of the CBGM auxiliary compound from the red line boundary.

7.10.2 The minimum distance between the proposed main site compound and the nearest receptor (which is located south of the revised main site compound location) is 290 metres, compared with 150 metres for the superseded proposals. The relocation would not result in noise levels from operation of the CBGM batching plant at the nearest receptors that would exceed the Lowest Observed Adverse Effect Level (LOAEL, defined to be 65 dB LAeq,16hour during daytimes as per Table 11.5 of the 2018 ES).

7.10.3 Noise and vibration due to construction works associated with the CBGM auxiliary compound were not found to result in significant adverse effects. The proposal to remove this compound from the red line boundary would therefore not change the assessment of significant effects as presented in Paragraph 11.10.18 of the 2018 ES (APP-048).

Assessment of 10 nearest receptors (daytime works)

7.10.4 The effects caused by linear road works, as described in section 11.10.5 and Table 11.13 of the 2018 ES (APP-048), also shown below in Table 7.1, are expected to increase the noise levels at the receptors adjacent to the proposed amended access to Blackwell Farm.

Table 7.1 Predicted construction noise levels - linear road works

Phase	Activity	L _{Aeq, 16h} dB at various distances from the works						Approximate distance (m) to be at or above daytime SOAEL
		10m	20m	50m	100m	200m	300m	
Enabling works	Tree/hedgerow clearance	84	78	68	61	53	49	37
	Site clearance	85	79	70	62	55	50	42
Earthworks	Topsoil strip	91	85	75	68	60	56	70
	Bulk earthworks	90	84	74	67	59	55	65
	Resoil	86	80	70	63	55	51	44
	Roadbox and capping	85	79	70	62	55	50	43
Drainage	Pavement drainage, ducting and chambers	84	78	69	61	54	49	37
Roadworks	Road pavement construction/a sphalting	90	84	75	67	60	55	67
	Road markings	82	76	67	59	52	47	31

7.10.5 Noise levels are expected to exceed the SOAEL threshold at the receptors shown in Figure 7.1 above, during construction of the farm access. Construction activities would not lead to significant adverse effects provided that the construction is completed in a period not exceeding 10 days of any 15 consecutive days or for a total number of days not exceeding 40 in any 6 consecutive months.

7.10.6 Subject to control of time periods of construction works as described above and in Paragraph 11.10.24 of the 2018 ES (APP-048) there would be no change to the assessment of likely significant effects from the 2018 ES (APP-048) and the effects would remain Not Significant.

Operation

7.10.7 The proposed amendments to the access track for Blackwell Farm are not anticipated to change the assessment of likely significant effects due to the change in traffic considered to be negligible as a balance between traffic exiting the A303 onto Traits Lane being stopped by the scheme and the additional traffic to Blackwell Farm along Blackwell Road and the bottom of Traits Lane.

7.11 Monitoring

7.11.1 The monitoring requirements for noise and vibration have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 11.11 of the 2018 ES (APP-048) remains unchanged and valid.

7.12 Conclusions

7.12.1 The proposed amendments to the scheme design, outlined in Chapter 2 of this ES Addendum (APP-039), would result in no change to the overall assessment of noise and vibration effects concluded in the 2018 ES (APP-048).

7.12.2 The figures and technical appendices supporting Chapter 11 of the 2018 ES (APP-048), excluding those where changes have been described in Table 1.1, remain valid.

8 People and Communities

8.1 Introduction

8.1.1 Chapter 12 of the 2018 ES (APP-049) considers the likely significant effects of the proposed scheme on people and communities. This ES Addendum chapter considers only the likely significant effects of the proposed red line boundary changes on people and communities.

8.2 Competent expert evidence

8.2.1 The competent expert advice for people and communities has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.2 of the 2018 ES (APP-049) remains unchanged and valid.

8.3 Legislative and policy framework

8.3.1 The legislative and policy framework for people and communities has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.3 of the 2018 ES (APP-049) remains unchanged and valid.

8.4 Assessment methodology

8.4.1 The assessment methodology for people and communities has not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.4 of the 2018 ES (APP-049) remains unchanged and valid.

8.5 Assessment assumptions and limitations

8.5.1 The assessment assumptions and limitations for people and communities have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.5 of the 2018 ES (APP-049) remains unchanged and valid.

8.6 Study Area

8.6.1 The definition of the study area identified for the assessment remain as identified within Section 12.6 of the 2018 ES (APP-049). Therefore, the text within section 12.6 of the 2018 ES (APP-049) remains unchanged and valid. However, the extent of the study area for the purposes of this ES Addendum is based upon the proposed changes to the red line boundary.

8.7 Baseline conditions

8.7.1 The proposed updates to the scheme design have resulted in a small adjustment to the Local Impact Area (LIA) as described in Paragraph 12.6.2 of the 2018 ES (APP-049) as being the area within 250 metres of the scheme, see Figure A8.1 of Appendix B, Local Impact Area Plan. The change to the

LIA has resulted in additional receptors being identified within the study area for the topics below.

Non-motorised users

8.7.2 In addition to those reported in Paragraph 12.7.3 of the 2018 ES (APP-049), following the proposed scheme updates 2 further Public Rights of Way (PRoW) have been identified to be within the 250 metres Local Impact Area, both PRoWs can be seen in Figure 12.2 of Volume 6.2 of the 2018 ES (APP-137). These are situated in the region of the proposed changes to the access for Blackwell Farm. Both of these are footpaths and the details can be found in Table 8.1 below. These footpaths facilitate the Non-motorised User (NMU) journeys described in Table 8.2 below.

Table 8.1 Description of NMU facilities and amenity within the study area for the scheme

Category	Description	Amenity	Location
Footpath WN 23/7	Footpath begins where Church Path intersects Wales Lane. From here it travels approximately 400m east.	Acceptable: NMUs required to begin the journey on a local rural road.	125m south of the scheme
Footpath WN 23/36	Footpath Begins opposite the southern end of Traits Lane and travels approximately 125m south to join Church Path.	Acceptable: NMUs required to end the journey on a local rural road.	10m south of the scheme

Table 8.2 Journeys potentially made by NMUs within the study area

Potential NMU journeys	Relevant NMU routes/ local roads	Description of potential NMU journeys within study area	Baseline amenity	NMU survey results
Wales to Queen Camel	Footpath WN 23/7 Footpath WN 23/36	NMUs can use Footpath WN 23/7 to travel between Wales, at the intersection of Wales Lane and Church Path, to join the top of Green Lane in Queen Camel. NMUs can also join this journey from the intersection of Traits Lane and Blackwell Road by taking Footpath WN 23/36 south.	Acceptable: NMUs required to begin the journey on a local rural road.	No counts undertaken.
Leland Trail	Footpath WN 23/7	Footpath WN 23/7 is one section of the 51km Leland Trail, a long-distance path travelling from Stourhead to Stoke-sub-Hamdon.	Acceptable: NMUs required to begin the journey on a local rural road.	No counts undertaken.

Demolition of private property and associated land take

Residential properties

8.7.3 The proposed changes to the scheme design have resulted in the Queen Camel (east) settlement being removed from the LIA and additional properties being added to the Queen Camel (west) settlement. The updates to the residential properties found within the LIA can be seen on Figure A8.2 of Appendix B.

Agricultural land

- 8.7.4 Approximately 103 hectares of land within the 119-hectare red line boundary is believed to be used for arable production, with an area of parkland to the eastern most extents of the scheme and smaller parcels of permanent pasture. This is an addition of approximately 4.9 hectares of farm land, Agricultural Land Classification (ALC) Grade 3 compared with that reported in Paragraph 12.7.38 of the 2018 ES, APP-049).
- 8.7.5 As reported in 12.7.29 of the 2018 ES (APP-049), the study area comprises numerous field parcels, predominantly separated by hedgerows and woodland. Altogether, there are 23 individual farms within the study area, which comprise landowners, tenants and occupants of land. Farm 06, 08 and 22 would have a different amount of land-take for the proposed red line boundary updates. The changes to the land-take at these farms can be seen in Appendix A8. The land-take for all the other farms would remain the same and can be seen in Appendix 12.4 of the 2018 ES (APP-096).

8.8 Potential impacts

- 8.8.1 The potential impacts for people and communities have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.8 of the 2018 ES (APP-096) remains unchanged and valid.

8.9 Design, mitigation and enhancement measures

- 8.9.1 The design, mitigation and enhancement measures for people and communities have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.9 of the 2018 ES (APP-096) remains unchanged and valid.

8.10 Assessment of likely significant effects

Construction

Non-motorised users

- 8.10.1 Temporary construction works could result in changes with respect to noise and dirt exposure and visual intrusions which could result in a slight deterioration of journey quality for additional PRowS and journeys reported in this ES Addendum.
- 8.10.2 The additional PRowS and journeys identified in Table 8.1 and Table 8.2 would not be directly affected by the scheme. Therefore, the assessment of effects for NMUs would not change and would remain as Slight Adverse as reported in Paragraph 12.10.4 of the 2018 ES (APP-096).

Driver Stress

- 8.10.3 The proposed main compound, 5 hectares larger than the previous main compound, would slightly increase the presence of construction plant, stock piles and construction infrastructure within these compounds which would result in a reduction in visual amenity for vehicle travellers on adjacent roads including the A303 and local roads. This could increase driver stress for

vehicle travellers. Construction plant would access the compounds from the A303 for the main compound which could cause additional driver frustration for vehicle travellers due to the presence of slow-moving HGVs. The greater presence of personnel walking to and from the compounds which are within close proximity of the works site, may also contribute to an increased fear of potential accidents. However, the proposed removal of the CBGM auxiliary compound, 3.7 hectares, would reduce the impacts upon driver stress. Therefore, on balance the changes to the construction compounds would not change the significance of effects which would remain as reported in Paragraph 12.10.8 of the 2018 ES (APP-049), with mitigation in place, a temporary worst-case Slight Adverse effect is predicted during construction.

Demolition of Private Properties and Associated Land Take

8.10.4 The proposed changes to access to Blackwell Farm would require land-take from Eyewell Bungalow on a permanent basis. This has been assessed as resulting in a Slight Adverse effect, as presented within Table 8.3 below. The overall effect resulting from land take from private property would not be altered as a result of these changes and would remain Moderate Adverse as reported in Paragraph 12.10.9 of the 2018 ES (APP-049).

Table 8.3 Effects for private property land take

Location of land take	Type of land take	Approximate amount of land take	Significance of effect
Eye Well Bungalow, south of the A303, located on Traits Lane	Permanent acquisition of outside space to the east of the property as part of the scheme footprint.	17m ² of the property's 988m ² total plot	<p>Land would be required during the construction stage to accommodate the scheme footprint. The land required is located to the east of the property and is currently used as garden space. It would be required on a permanent basis.</p> <p>The access route to the property would not be impacted, and the receptor has sufficient capacity to absorb the change (that is, land take). However, as the receptor is used on a daily basis by residents, the sensitivity of the receptor is considered to be medium.</p> <p>The magnitude of the impact would be minor. The land take would only impact one receptor and occurs purely within the scheme site. The land take is also 2% of the property's total plot.</p> <p>As the sensitivity of the receptor is medium, the overall effect for this impact is therefore Slight Adverse and not significant.</p>

Agricultural land

8.10.5 Agricultural land would be temporarily and permanently acquired during construction to facilitate works for the scheme. The area required would be larger than that reported in Paragraph 12.10.23 (APP-049), due to the proposed main site compound covering a greater area. There would be an increase in land take of approximately 1.13 hectares within Grade 3 agricultural land, including 0.02 hectares of permanent land take from Grade 3 agricultural land. Table 8.4 below identifies the land take from each ALC grade and the potential adverse effects on agricultural land as a national resource.

Table 8.4 Effects on agricultural land as a national resource

ALC land grade	Loss of land	Value (sensitivity)	Magnitude of impact	Significance of effect
Grade 2	1.83 hectares permanent land-take	High	Minor Adverse	Slight Adverse
Grade 3	22.70 hectares temporary land-take 75.18 hectares permanent land-take (97.88 hectares of land-take during construction)	Medium	Major Adverse	Moderate Adverse

8.10.6 The proposed additional land take would not raise the agricultural land acquisition area by a level which is enough to change the significance in line with Table 12.6 of the 2018 ES (APP-049). Therefore, the assessment for agricultural land would remain Moderate Adverse as reported in Paragraph 12.10.24 of the 2018 ES (APP-049).

Individual farm businesses

8.10.7 Appendix A9 provides the updated assessment of impacts for the individual farm businesses affected by the proposed changes to the scheme design, being Farm 06, 08 and 22. The individual farms map (Appendix A8) highlights the areas of land take that would be required for these farms due to the proposed scheme design, including land temporarily and permanently acquired.

8.10.8 The proposed additional land take required over both a temporary and permanent period would not result in the percentage of the total farm area increasing to a level that would result in the significance of effect changing for any individual farm business or any additional impacts to those identified in Table 12.7 in the 2018 ES (APP-049). Therefore, an overall Moderate Adverse effect is anticipated, as reported in Paragraph 12.10.29 in the 2018 ES.

Operation

Non-motorised users

8.10.9 The additional PRoWs and journeys identified as part of this ES Addendum would not be directly affected during operation. Therefore, the assessment result would remain Slight Beneficial as reported in Paragraph 12.10.33 in the 2018 ES (APP-049).

8.11 Monitoring

8.11.1 The monitoring requirements for people and communities have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 12.11 of the 2018 ES (APP-049) remains unchanged and valid.

8.12 Conclusions

8.12.1 The proposed amendments to the scheme design, outlined in Section 2 of this ES Addendum, would result in no change to the assessment of effects concluded in the 2018 ES (APP-049).

8.12.2 The figures and technical appendices, excluding those where changes have been described in Table 1.1, supporting Chapter 12 of the 2018 ES (APP-049) remain valid to this ES Addendum.

9 Combined and Cumulative Effects

9.1 Introduction

9.1.1 Chapter 14 of the 2018 ES (APP-051) describes the likely significant effects of the combined and cumulative effects of the proposed scheme. This ES Addendum chapter considers only the likely significant combined and cumulative effects of the proposed red line boundary changes.

9.2 Competent expert evidence

9.2.1 The competent expert advice for combined and cumulative effects has not changed due to the proposed changes to the scheme design. Therefore, the text within Section 14.2 of the 2018 ES (APP-051) remains unchanged and valid.

9.3 Legislative and policy framework

9.3.1 The legislative and policy framework for combined and cumulative effects has not changed due to the proposed changes to the scheme design. Therefore, the text within Section 14.3 of the 2018 ES (APP-051) remains unchanged and valid.

9.4 Assessment methodology

9.4.1 The assessment methodology for combined and cumulative effects has not changed due to the changes to the scheme design. Therefore, the text within Section 14.4 of the 2018 ES remains unchanged and valid.

9.5 Assessment assumptions and limitations

9.5.1 The assessment assumptions and limitations for combined and cumulative effects have not changed due to the proposed changes to the scheme design. Therefore, the text within Section 14.5 of the 2018 ES (APP-051) remains unchanged and valid.

9.6 Study Area

9.6.1 The definition of the study area identified for the assessment remain as identified within Section 14.6 of the 2018 ES (APP-051). Therefore, the text within section 14.6 of the 2018 ES (APP-051) remains unchanged and valid. However, the extent of the study area for the purposes of this ES Addendum is based upon the updated red line boundary.

9.7 Baseline conditions

Combined effects

9.7.1 The baseline for the combined effects assessment is described in the individual environmental topic chapters (Chapters 5 to 13 of the 2018 ES and Chapter 3 to 8 of this ES Addendum).

Cumulative effects

9.7.2 The proposed changes to the red line boundary have not resulted in any additional relevant proposed developments being present within the 2 kilometre study area. Therefore, the baseline conditions presented in Paragraph 14.7.2 of the 2018 ES (APP-051) and the list of developments in Table 14.6 of the 2018 ES (APP-051) remain valid.

9.8 Potential impacts

9.8.1 The potential impacts for combined and cumulative effects have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 14.8 of the 2018 ES (APP-051) remains unchanged and valid.

9.9 Design, mitigation and enhancement measures

9.9.1 The design, mitigation and enhancement measures for combined and cumulative effects have not changed due to the proposed changes to the scheme design. Therefore, the text within Section 14.9 of the 2018 ES (APP-051) remains unchanged and valid.

9.10 Assessment of likely significant effects

Combined effects

Construction

9.10.1 The changes to the assessment of likely significant effects for cultural heritage due to the proposed changes to the scheme design are explained in Chapter 4 of this ES Addendum. During construction, the listed heritage asset, Eyewell, is predicted to experience Moderate Adverse effects and the listed Eyewell Group is predicted to experience Slight Adverse effects, reduced from the Moderate Adverse effect previously reported in the 2018 ES (APP-051). The changes to the assessment of these assets and the other topic assessments in this ES Addendum do not change the combined effect on cultural heritage receptors which remains a Large Adverse effect as reported in Table 14.8 of the 2018 ES (APP-051).

9.10.2 The proposed changes to the assessment of likely significant effects for landscape due to the changes to the scheme design are explained in Chapter 5 of this ES Addendum. During construction, a new receptor group 46 and LCA 7 would experience a change in effects as a result of the proposed changes to the scheme design. LCA 7 would experience Slight Adverse

effects, increased from the Negligible as reported in the 2018 ES (APP-051), and the visual receptor group would experience Moderate Adverse effects during construction. The changes to the assessment for these receptors and the other topic assessments in this ES Addendum do not change the combined effect on landscape receptors which remains a Large Adverse effect as reported in Table 14.8 of the 2018 ES.

9.10.3 The additional updates to the assessments and the receptors reported within this ES Addendum would not result in any further changes to the combined effects during construction as presented in Table 14.8 of the 2018 ES. Therefore, the overall significance of the combined effects for the scheme during the construction phase remains as Moderate Adverse as reported in Table 14.8 of the 2018 ES (APP-051).

Operation

9.10.4 The proposed updates to the assessments and the receptors reported within this ES Addendum would not result in any changes to the combined effects during operation as described in Table 14.9 of the 2018 ES (APP-051). Therefore, the overall significance of the combined effects for the scheme during the operation phase remains as Slight Adverse as reported in the 2018 ES.

Cumulative effects

9.10.5 The cumulative effects of the scheme presented in Section 14.10 of the 2018 ES (APP-051) have not changed due to the proposed amendments to the scheme design. Therefore, the text within Section 14.10 of the 2018 ES (APP-051) remains unchanged and valid.

9.11 Conclusion

9.11.1 The proposed amendments to the scheme design, outlined in Section 2 of this ES Addendum, would result in no change to the conclusions of the assessment of combined and cumulative effects presented in the 2018 ES (APP-051).

9.11.2 The figures and technical appendices supporting Chapter 14 of the 2018 ES (APP-051), excluding those where changes have been described in Table 1.1, remain valid.

10 Summary

10.1 Introduction

10.1.1 Chapter 15 of the 2018 ES (APP-052) describes the likely significant effects of the proposed scheme reported in the 2018 ES.

10.1.2 The proposed changes to the red line boundary have resulted in a change to the likely significant effects for some of the environmental topics. The changes are reported in Table 10.1 below. All other conclusions within the 2018 ES remain valid.

10.1.3 The contents of Chapter 15 of the 2018 ES (APP-052) remain unchanged and valid, with the exception of the changes described below.

10.2 Summary of likely significant effects

10.2.1 Table 10.1 below summarises the changes to likely significant effects that are likely to result from the proposed amendments to the red line boundary. Table 15.1 in the 2018 ES (APP-052) remains valid with the exception of these changes. The proposed changes associated with the shape of the proposed Public Right of Way joining Gason Lane to ensure it fully aligns with the verge of Gason Lane would not lead to any new environmental effects.

Table 10.1 Summary of the changes to likely significant effects outlined in the ES Addendum

Receptor(s)	Description of effects	Adverse / beneficial	Construction / operation	Temporary / long term	Mitigation requirements	Mitigation delivery mechanism	Significance of effect(s) after mitigation
Chapter 4 Cultural Heritage							
Built heritage							
Eyewell Group – 3 Grade II Listed buildings	Temporary – The location of the CBGM activity for the duration of the construction phase, previously to be located 35 metres to the north of Eyewell House and associated assets, is now to be relocated to the revised main site compound. The remaining construction work, including additional noise and movement of plant, would have a limited impact on the setting of the asset, due to its orientation and taking into account the existing noise and traffic movement from the A303.	Adverse	Construction	Temporary	N/A	N/A	Slight Adverse, where previously reported as Moderate Adverse in the 2018 ES (APP-043).
The Eyewell – Grade II listed	Temporary – The asset is located within an area of permanent land acquisition to the north of the proposed junction improvements at Traits Lane and Blackwell Road. The Eyewell would be protected during construction to prevent damage. The loss of the setting within a green roadside verge would impact on the ability to understand the value of the asset.	Adverse	Construction	Temporary	The Eyewell would be subject to protection measures during construction, including fencing surrounding the asset to prevent disturbance of the Eyewell. Protection measures, including type of fencing, location of fencing, method of erecting, maintaining and removing the protection measures would be agreed with South Somerset District Council.	Detailed in the Outline Environmental Management Plan (OEMP) (APP-148), to be implemented through the Construction Environmental Management Plan (CEMP) and Arboricultural Method Statement (AMS).	Moderate Adverse
Chapter 5 Landscape							
Visual							
Visual receptors	During construction, construction infrastructure and vehicles would create significant adverse visual impacts.	Adverse	Construction	Temporary	As outlined in Section 7.9 in the 2018 ES (APP-044).	Detailed in the OEMP (APP-148), to be implemented through the CEMP and AMS.	One additional receptor, receptor 46, would experience a Moderate Adverse Effect.

11 Glossary

Glossary term	Description
Agricultural Impact Assessment (AgIA)	An Agricultural Impact Assessment (AgIA) provides an assessment on the viability of farms as a result of a development. Husbandry and severance effects for individual farms are the primary consideration within an AgIA although other effects, such as an increase in flooding, may also need to be assessed.
Amenity	The relative pleasantness of a journey.
At-grade junction	An intersection of highways where the crossing is at the same level.
Baseline conditions	The environment as it appears (or would appear) immediately prior to the implementation of the project together with any known or foreseeable future changes that would take place before completion of the project.
Biodiversity	The biological diversity of the earth's living resources. The total range of variability among systems and organisms at the following levels of organisation: bioregional, landscape, ecosystem, habitat, communities, species, populations, individuals, genes and the structural and functional relationships within and between these different levels.
Cement bound granular material (CBGM)	A cost effective and more sustainable alternative to conventional asphalt construction. CBGMs can be produced to a variety of strength classes and is installed using conventional paving equipment and methods, overlaid with the required thickness of asphalt.
Combined (and cumulative) effects	Combined and cumulative effects result from multiple actions on receptors over time and are generally additive or interactive (synergistic) in nature. They can also be considered as effects resulting from incremental changes by other past, present or reasonably foreseeable actions together with the scheme. Combined effects are therefore identified as effects from a single project (the inter-relationships between different environmental factors). Cumulative effects are identified as effects from different projects, with the project being assessed.
Congestion	Traffic experiences periods of excessive braking and acceleration and is associated with higher vehicle emissions. On motorways this occurs at speeds less than 50mph and / or near complex junctions.
Development Consent Order (DCO)	The means of obtaining permission for developments categorised as Nationally Significant Infrastructure Projects (NSIP). Introduced by the Planning Act (2008) and applications are decided by the Planning Inspectorate and the Secretary of State.
Driver Stress	The adverse mental and physiological effects experienced by a driver traversing a road network.
Dust	The word 'dust' usually refers to particulate matter in the size range 1-75 microns in diameter. Dust can be mechanically transported either by wind or re-suspension by vehicles. It can also arise from wind erosion on material stock piles and earth moving activities.

Glossary term	Description
Effect	Term used to express the consequence of an impact (expressed as the 'significance of effect'), which is determined by correlating the magnitude of the impact to the importance, or sensitivity, of the receptor or resource in accordance with defined significance criteria. For example, land clearing during construction results in habitat loss (impact), the effect of which is the significance of the habitat loss on the ecological resource.
Farm / Individual farm holdings / Farm business	An area of land that consists of one or more land parcels or group of fields that are managed by a named person or named business entity as an owner, tenant or in any other commercial agricultural capacity, for the production of food, forage or fibre.
Geophysical Survey	Method to assess and collect data on sub-surface features used for spatial analysis.
Heavy Goods Vehicles (HGVs)	Heavy Goods Vehicles, over 3.5 tonnes and includes rigid and articulate lorries.
Impact	Change that is caused by an action; for example, land clearing (action) during construction which results in habitat loss (impact).
Lowest Observed Adverse Effect Level (LOAEL)	This the level of noise above which adverse effects on health and quality of life can be detected.
Ministry of Housing, Communities and Local Government (MHCLG)	Formerly the Department for Communities and Local Government which focuses on creating great places to live and work, and to give more power to local people to shape what happens in their area.
Mitigation	Measures intended to avoid, reduce and, where possible, remedy significant adverse environmental effects.
National Planning Policy Framework (NPPF)	The National Planning Policy Framework sets out the Government's planning policies for England.
Non-Motorised User (NMU)	Someone walking, cycling or a horse rider.
Operation	The functioning of a project on completion of construction.
Planning Inspectorate (PINS)	An executive agency sponsored by the Ministry of Housing, Communities and Local Government. Deals with planning appeals, national infrastructure planning applications, examinations of local plans and other planning-related and specialist casework.
Public Right of Way (PRoW)	A right to access land for walking or certain other leisure activities. Types of PRoWs include footpaths, bridleways, restricted byways and byways.
Receptor	A defined individual environmental feature that has the potential to be affected by a project.
Road Investment Strategy (RIS)	Outlines the long-term funding programme required for major roads and motorways.
Significant Observed Adverse Effect Level (SOAEL)	This is the level of noise above which significant adverse effects on health and quality of life occur.
Verge	Any flat area between the edge of the paved width and either the start of an adjacent side slope or, where there is no side slope, the highways boundary or bridge parapet.