

A30 Chiverton to Carland Cross TR010026

6.2 ENVIRONMENTAL STATEMENT CHAPTER 16 ENVIRONMENTAL MANAGEMENT

Planning Act 2008

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

Volume 6

August 2018

Infrastructure Planning

Planning Act 2008

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

**A30 Chiverton to Carland Cross
Development Consent Order 201[x]**

**6.2 ENVIRONMENTAL STATEMENT
CHAPTER 16 ENVIRONMENTAL MANAGEMENT**

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010026
Application Document Reference	6.2
Author:	A30 Chiverton to Carland Cross Project Team, Highways England

Version	Date	Status of Version
Rev: C01	21/08/18	Application Issue

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16 Environmental Management

16.1 Introduction and Purpose

16.1.1 The Environmental Management chapter describes the environmental management process to manage the environmental effects of the scheme and to demonstrate compliance with environmental legislation. It provides the framework for recording environmental risks, commitments and other environmental constraints and to clearly identify the structures and processes that will be used to manage and control these aspects.

16.2 Outline Construction Environmental Management Plan

- 16.2.1 The Outline Construction Environmental Management Plan (CEMP) will ensure compliance with relevant environmental legislation, government policy objectives and scheme specific environmental objectives during construction. It will be the fundamental document for monitoring, reviewing and auditing environmental performance and compliance.
- 16.2.2 The **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1) has been prepared in accordance with DMRB Volume 11 Section 2 Part 6 HD 48/08 and DMRB Interim Advice Note (IAN) 183/14 and is available in the **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1).
- 16.2.3 It will later be refined and expanded into a Construction Environmental Management Plan (CEMP) as more information becomes available and there is more certainty in terms of the proposed project layout, construction methods, programme and the likely environmental effects. Table 16-1 provides an overview of how the CEMP is developed and the responsible owner for each stage of the scheme.

Table 16-1 CEMP development and responsibilities

Project Stage	Description	Status of Environmental Management Plan	Responsibility
Stage 0	Strategy, Shaping and Prioritisation	None	Client
Stage 1	Option Identification		
Stage 2	Option Selection		
Stage 3	Preliminary Design	Outline Construction Environmental Management Plan (Outline CEMP)	Designer
Stage 4	Statutory Procedures and Powers		
Stage 5	Construction	Construction Environmental Management Plan (CEMP)	Contractor
Stage 6	Commissioning and Handover	Handover Environmental Management Plan (HEMP)	Contractor
Stage 7	Operation and Maintenance		

16.2.4 The **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1) will capture and collate all available information on the scheme specific environmental objectives, environmental risks, proposed mitigation and commitments that will

need to be addressed prior to receiving “development consent” and transposing these requirements into a series of clear environmental actions to ensure that each action is fully considered during the following stages. To facilitate this, the **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1) contains a Register of Environmental Actions and Commitments (REAC).

16.3 Register of Environmental Actions and Commitments

16.3.1 A Register of Environmental Actions and Commitments (REAC) has been produced as part of the **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1). This will be critical to the success of the CEMP as it will form a record of the scheme specific environmental actions and commitments to be implemented and managed through all stages of the scheme. The REAC lists actions and commitments identified from a number of sources, such as in the ES (principally taken from the mitigation sections of each chapter), ecological surveys, heritage or tree reports, contaminated land assessments or standard requirements such as Environment Agency consents.

16.4 Construction Environmental Management Plan

16.4.1 The CEMP will be produced and will be an expanded and more detailed version of the **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1). It will contain all the information required for the appropriate management of environmental effects during construction of the project. The CEMP should be prepared as appropriate during the construction preparation stage.

16.4.2 The CEMP will be prepared in consultation with Cornwall Council and submitted to and approved in writing by the Secretary of State.

16.4.3 The purpose of the CEMP is to manage the environmental effects of the scheme. The key aims are to:

- Act as a continuous link and main reference document for environmental issues between the design, construction and the maintenance and operation stages of a project;
- Demonstrate how construction activities and supporting design will properly integrate the requirements of environmental legislation, policy, good practice, and those of the environmental regulatory authorities and third parties;
- Record environmental risks and identify how they will be managed during the construction period;
- Record the objectives, commitments and mitigation measures to be implemented together with the programme and date of achievement;
- Identify the key staff structures and responsibilities associated with the delivery of the project and environmental control and communication and training requirements as necessary;
- Describe the contractor's proposals for ensuring that the requirements of the environmental design are achieved, or are in the process of being achieved, during the Contract Period;
- Act as a vehicle for transferring key environmental information into the Handover Environmental Management Plan (HEMP) for operational management. This will include details of the asset, short and long term management requirements and any monitoring or other environmental commitments; and

- Provide a review, monitoring and audit mechanism to determine effectiveness of, and compliance with, environmental control measures and how any necessary corrective action will take place.

- 16.4.4 The CEMP will be a 'live' document that would be regularly updated and revised to take account of new information, changing external factors, feedback from reviews and consultation with the Statutory Environmental Bodies.
- 16.4.5 The CEMP will build upon the environmental actions identified in the REAC of the **Outline CEMP** (Volume 6 Document Ref 6.4 ES Appendix 16.1) by updating existing, or identifying new actions in light of information available at the construction phase. This may include environmental commitments made during the construction phase, risks and other information such as time constraints. It should describe the way these will be controlled and dealt with to comply with legislation and policy requirements and how adverse effects will be mitigated and managed during construction.
- 16.4.6 Highways England requires a CEMP certified to BS EN ISO14001 Environmental Management System (EMS)¹.
- 16.4.7 The CEMP should include roles and responsibilities, together with appropriate control measures, training and briefing procedures, method statements, risk assessments and monitoring systems to be employed during planning and constructing the works for all relevant topic areas. Indicative contents of a CEMP are recommended in Annex B of IAN 183/14.

16.5 Handover Environmental Management Plan

- 16.5.1 Towards the end of the construction period, the CEMP will be refined into a Handover Environmental Management Plan (HEMP), written in accordance with DMRB requirements. This will contain essential environmental information needed by the body responsible for the long term management and operation of the assets of the scheme. It should be developed during the construction phase, in consultation with the organisation that will be responsible for the long term management and operation to ensure that its requirements are clear and meet their needs. It is important that it is substantially completed while environmental specialists responsible for key aspects of design and implementation such as archaeologists, ecologists and drainage specialists are still actively involved in the project and before any establishment maintenance period commences.
- 16.5.2 The HEMP should provide the relevant information on existing and future environmental commitments and objectives that need to be honoured, ongoing actions and risks that need to continue to be managed. The structure of the HEMP will align with the indicative contents recommended in Annex C of IAN 183/14. It should focus on the future management requirements, ongoing commitments and risk management requirements. It should include as built information and other details in a form that can be utilised by the body responsible for long term management so they can update their environmental management plans for the operational phase.

¹ BSI, 2015, BS EN ISO 14001: Environmental Management (amended)

16.6 Environmental Masterplan

- 16.6.1 The key environmental mitigation measures incorporated within the design of the scheme are illustrated on the **Environmental Masterplans** (Volume 6 Document Ref 6.3 Figure 7.6). The Environmental Masterplan drawings have been prepared in accordance with the Design Manual for Roads and Bridges (DMRB) Volume 10, Section 0, Parts 1 to 8.
- 16.6.2 DMRB sets out a system of Environmental Functions, Landscape Elements, Environmental Elements and Planning Policy features to describe areas shown on the Environmental Masterplan drawings. These are described in detail in **Landscape** (Volume 6 Document Ref 6.2 ES Chapter 7) in Section 7.10.

16.7 Licences and Consents

- 16.7.1 A list of potential licences and consents required as part of the scheme are provided in **Details of other Consents and Licences** (Volume 7 Document Ref 7.2). This document summarises the other consents, licences and agreements that, in addition to the draft Development Consent Order, Highways England intends to obtain, to allow the construction, operation and maintenance of the scheme.

16.8 Securing Environmental Mitigation

- 16.8.1 Mitigation would be secured by way of requirements in the DCO that the scheme is undertaken in accordance with:
- The CEMP (which includes detailed provisions on mitigation of construction impacts).
 - Specific mitigation obligations in key topic areas such as landscaping and ecology and nature conservation.
 - The scheme design shown on the plans submitted with the DCO within **Work Plans** (Volume 2 Document Ref 2.4).
- 16.8.2 Parallel with this, Highways England will place a contractual responsibility on the contractors to comply with the DCO Requirements. Discharge of these requirements would be by consent from the Secretary of State, generally following consultation with the relevant planning or environmental authority.
- 16.8.3 During the construction preparation stage, contractual responsibility will be assigned to design and construct the scheme providing the same level of mitigation as the environmental design in Figures 7.6 of the ES (Volume 6 Document Ref 6.3) and the Register of Environmental Actions and Commitments (REAC).
- 16.8.4 By way of illustration of the environmental management process, a summary sequence of events is provided below using site hoarding as an example mitigation measure:
- The CEMP explains where hoarding ought to be used within the construction phase, for example site security and public safety around compounds, to protect cultural heritage assets as appropriate, screening for the purposes of noise and vibration.
 - With due consideration to commitments made within the REAC, Statements of Common Ground (SOCGs) and ongoing dialogue with stakeholders as

appropriate, the site specific measures relating to the appearance and heights of security fencing and hoarding to be used would be confirmed in the CEMP in advance of construction.

- The CEMP would identify the roles and responsibilities for the erection, inspection and maintenance of the hoarding during the construction phase. Details of any permanent hoarding (if required) to replace construction hoarding would be entered into the HEMP that would be passed onto the incumbent Managing Agent adopting the site following the completion of the construction phase. The HEMP would contain details of operational inspection and maintenance, as built drawings and any other ongoing commitments.

16.9 Summary

- 16.9.1 In line with the requirements under DMRB and ISO 14001, the Environmental Management of the scheme is an ongoing process during detailed design, construction, operation and maintenance. The CEMP and the HEMP, secured by the requirements of the DCO, will ensure there is a comprehensive management plan in place for the scheme to avoid or reduce any adverse environmental impacts.

If you need help accessing this or any other Highways England information, please call **0300 123 5000** and we will help you.

