

Eastern Green Link 4: Scottish Onshore Scheme

Volume 4: Appendices

Appendix 8.4: Watercourse Crossings

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Watercourse

Crossings

1. Introduction

The Scottish Onshore Scheme requires the cable route to cross a number of watercourses. In addition, a haul road and access tracks are proposed as part of the Scottish Onshore Scheme, some of which also require new or modified crossings of watercourses. This brief technical note identifies the existing and proposed watercourse crossings following field and desktop surveys.

2. Watercourse crossings

Along the route the cable will need to cross a number of watercourses. There are two types of watercourse crossing methodologies proposed: HDD and open cut trenching. The type of methodology to be used has been selected based on the determined importance of the watercourse, ground conditions, environmental constraints and site access and working area availability. For example, minor non-sensitive channels/watercourses are likely to be open cut and assume a bypass flume/temporary dam to enable ducts to be installed between dry bed. Major or sensitive water features will be crossed using the HDD method. **Table 1 Watercourse crossings and HDD locations** details the locations and related information of each watercourse crossing. Included are those that will make use of Horizontal Directional Drilling (HDD) which will tunnel beneath the watercourse without the need of a crossing but are included here for full consideration.

Temporary watercourse crossings are proposed along the cable route to facilitate the haul road during construction. These crossings will either be a single span bridge or a culvert. The design of culverts would be done post-consent. However, where proposed it is assumed culverts will either be bottomless, to preserve the natural riverbed, or box type with natural substrate within the base of the culvert. Existing connectivity, capacity (where applicable) and freeboard are to be maintained, and further information on design mitigation can be found in **Chapter 8 Water Environment and Flood Risk (Volume 2 Main Report)**. **Table 2 Haul Road Crossings of Watercourses** lists all the watercourse crossings required for the haul road and any permanent access tracks.

The locations of all the crossings listed in **Table 1 Watercourse crossings and HDD locations** and **Table 2 Haul Road Crossings of Watercourses** are illustrated on **Figure 8.5 Watercourse Crossings (Chapter 8 Water Environment and Flood Risk, Volume 2 Main Report)**.

Table 1 Watercourse crossings and HDD locations

Cable Watercourse Crossing	Watercourse ID	Type of crossing	Approx. NGR	Details
C1	COA1	HDD – no crossing required	NT 26938 88427	Crosses under farm track at Grange Cottages
C2	COA2	Open cut	NT 26608 88734	Straight agricultural ditch
C3	COA3	Open cut	NT 26608 88734	Straight agricultural ditch
C4	COA4	Open cut	NT 26117 89062	Straight agricultural ditch
C5	TIE1	Open cut	NT 25812 90030	WFD designated water body
C6	TIE3	Open cut	NT 24726 89902	Watercourse at edge of forestry
C7	TIE4	Open cut	NT 23879 90354	Straight agricultural ditch
C8	TIE5	Open cut	NT 23409 90286	Straight, narrow channel. 150 m upstream of discharge to Tiel Burn WFD channel
C9	DRO1	Open cut	NT 22897 91150	WFD designated water body
C10	DRO2	HDD – no crossing required	NT 22855 91395	Under Woodland at Clentrie Farm
C11	DEN1	Open cut	NT 22064 92891	WFD designated water body
C12	DEN2	HDD – no crossing required	NT 22302 92222	Under Knockbathy Wood
C13	ORE1	HDD – no crossing required	NT 20060 94886	B981 and River Ore
C14	ORE2	Open cut	NT 20809 93961	Straight channel – transitions to more sinuous woodland channel 100 m downstream

Cable Watercourse Crossing	Watercourse ID	Type of crossing	Approx. NGR	Details
C15	ORE8	HDD – no crossing required	NT 20027 94918	Watercourse at edge of B981 and River Ore HDD
C16	ORE11	HDD – no crossing required	NT 20001 95248	South of Pitcairn Farm and below dismantled railway
C17	ORE13	Open cut	NT 19249 95613	Straight agricultural ditch
C18	ORE17	Open cut	NT 19249 95613	Ditch adjacent to Torres Loan road
C19	LOC4	Open cut	NT 21194 97501	Adjacent to farm track
C20	LOC7	Open cut	NT 20051 97582	Straight agricultural ditch

Table 2 Haul Road Crossings of Watercourses

Haul Road Crossing	Watercourse ID	Approx. NGR	Details
HRC1	COA2	NT 26604 88729	Straight agricultural ditch
HRC2	COA3	NT 26415 88951	Straight agricultural ditch
HRC3	COA4	NT 26123 89060	Straight agricultural ditch
HRC4	TIE5	NT 23412 90271	Straight, narrow channel. 150 m upstream of discharge to Tiel Burn WFD channel
HRC5	TIE1	NT 22535 90494	WFD designated water body
HRC6	DRO1	NT 22874 91129	WFD designated water body
HRC7	DEN1	NT 22082 92893	WFD designated water body
HRC8	ORE4	NT 20642 93663	Straight agricultural ditch

Haul Road Crossing	Watercourse ID	Approx. NGR	Details
HRC9	ORE2	NT 20800 93961	Straight channel – transitions to more sinuous woodland channel 100 m downstream
HRC10	ORE13	NT 19906 95610	Straight agricultural ditch
HRC11	ORE17	NT 20318 97045	Ditch adjacent to Torres Loan road
HRC12	LOC5	NT 19495 97264	Ditch adjacent to access track
HRC13	LOC8	NT 19228 97371	Straight agricultural ditch
HRC14	LOC9	NT 19093 97481	Straight agricultural ditch