

ScottishPower Renewables
Sheirdrim Renewable Energy Development
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1.0 Introduction

This Technical Appendix contains information relating to watercourse crossings at the proposed Development (illustrated in Figure 10.1).

Works associated with watercourse crossings are regulated under The Water Environment (Controlled Activities) (Scotland) (as amended) Regulations 2011. Within the application boundary there is an extensive network of existing access tracks and the proposed Development has sought to utilise these existing tracks wherever possible.

A survey of existing and proposed new watercourse crossings for the proposed Development was undertaken on 03-04/07/2019 and 05/09/2019 by an experienced SLR Hydrologist, the details of which are reported herein.

Section 2 provides details of crossings where improvement works are proposed (WX03, 09, 10 and 11) or where new crossings (WX01, 02, 04, 05, 06, 07 and 08) are required.

2.0 Watercourse Crossing Details

Table 2-1 presents information collected from the watercourse crossing survey conducted on 3rd and 4th July 2019 and on 5th September 2019.

Table 2-1: Watercourse Crossing Details

Table 2-1. Watercourse crossing Details					
Watercourse Crossing Details	Photograph off Existing/New Watercourse Crossing Point	Photograph Looking Upstream of Watercourse Crossing	Photograph Looking Downstream of Watercourse Crossing		
Watercourse Crossing: WX01 Status: New NGR: NR 81089 58087 Watercourse Width: 0.5 m Watercourse Depth: 0.2 m Notes: Minor watercourse which is heavily reeded. A small ponded area exists immediately downstream of crossing which is 0.6 m deep.					
Watercourse Crossing: WX02 Status: New NGR: NR 81970 57189 Watercourse Width: 0.3 m Watercourse Depth: 0.1 m Notes: Minor watercourse with long grasses and reeds.					
Watercourse Crossing: WX03 Status: Existing NGR: NR 80087 57000 Watercourse Width: 2 m Watercourse Depth: 0.4 m Notes: Large existing circular plastic culvert (1.8 m in diameter) with evidence of some rock migration into the culvert. However, good passage of water and no hydraulic jump observed.					

Watercourse Crossing Details **Photograph off Existing/New Watercourse Crossing Photograph Looking Upstream of Watercourse Photograph Looking Downstream of Watercourse** Crossing Point Crossing Watercourse Crossing: WX04 Status: Existing NGR: NR 79159 56669 Watercourse Width: 2 m Watercourse Depth: 0.2 m Notes: Existing crossing consisting of open span wooden bridge with stone embankment. Watercourse Crossing: WX05 Status: New NGR: NR 82473 56129 Watercourse Width: 0.3 m Watercourse Depth: 0.1 m Notes: Minor watercourse with long grasses and reeds with low flow. Watercourse Crossing: WX06 Status: New NGR: NR 82794 56980 Watercourse Width: 0.4 m Watercourse Depth: 0.1 m Notes: Steeply incised watercourse within an approximately 1 m deep channel comprising of peat, grasses and heather.



Watercourse Crossing Details **Photograph off Existing/New Watercourse Crossing Photograph Looking Upstream of Watercourse Photograph Looking Downstream of Watercourse** Point Crossing Crossing Watercourse Crossing: WX07 Status: New NGR: NR 82365 56841 Watercourse Width: 0.2 m Watercourse Depth: 0.05 m Notes: Minor watercourse incised in peaty soil with grasses. Low flow. Watercourse Crossing: WX08 Status: New NGR: NR 81819 57071 Watercourse Width: N/A Watercourse Depth: N/A Notes: No flow was observed but some water ponding. Ponded area is located within peat, reeds and mosses and extends to approximately 0.4 m wide and is 0.1 m deep. Watercourse Crossing: WX09 Status: Existing NGR: NR 80021 56873 Watercourse Width: 0.5 m Watercourse Depth: 0.4 m Notes: Large existing circular plastic culvert (1.8 m in diameter). Watercourse Crossing: WX10 Status: Existing NGR: NR 79434 56358 Watercourse Width: 1 m Watercourse Depth: 0.1 m Notes: Ford crossing minor watercourse from small catchment as overland flow. Watercourse spreads at ford and becomes more confined downstream.

Watercourse Crossing Details

Watercourse Crossing: WX11
Status: Existing
NGR: NR 79635 58834
Watercourse Width: 1.6 m
Watercourse Depth: 0.1 m
Notes: Existing watercourse crossing which is located within a forestry area and is heavily vegetated.

Photograph off Existing/New Watercourse Crossing
Photograph Looking Upstream of Watercourse
Crossing

Photograph Looking Upstream of Watercourse
Crossing

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