

## Geomorphology Photo Survey



### Version 1.1

Purpose:	NRW Technical Variation Application
Location:	Clogwyn Llanfrothen, Gwynedd LL48 6SN
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## 1.1 Geomorphology Photo Survey

The geomorphology survey consists of photographs of channel sections which illustrate stream conditions under different flow rates. Photographs predominantly compare conditions during surveys and post installation over a period from 2014 to 2019. The locations along the deprived reach from intake to discharge are labelled (a) to (k) and shown in Figure 1.



Figure 1: Satellite and map image showing photo survey positions (Google Maps)

### 1.1.1 Position (a)



**Figure 2: 15/02/2016 Site Survey pre installation**



**Figure 3: 20/04/2016 (Pre-construction)**



**Figure 4: 20/04/2016 (Pre-construction)**



**Figure 5: 29/06/2016 (After intake installation but before HEP operation)**



**Figure 6: 29/06/2016 (After intake installation but before HEP operation)**



**Figure 7: 21/12/2019 (Post commissioning HEP in operation)**

**1.1.2 Position (b)**



**Figure 8: 20/04/2016 (Pre-construction)**

**1.1.3 Position (c)**



**Figure 9: 15/02/2016 Site Survey pre installation**

#### 1.1.4 Position (d)

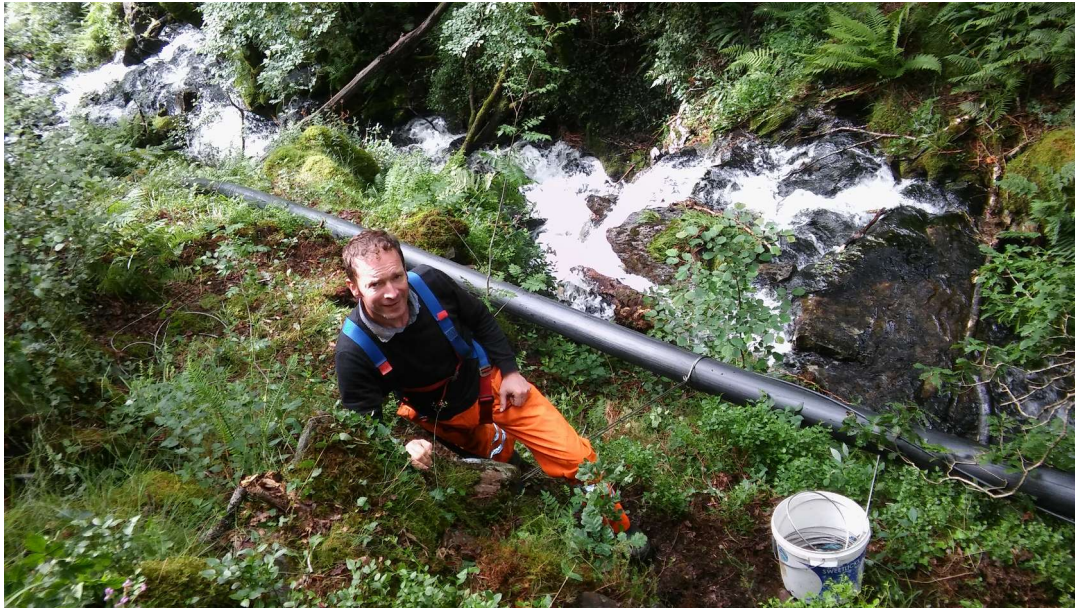


Figure 10: 01/07/2016 (during pipeline installation)

#### 1.1.5 Position (e)



Figure 11: 15/02/2016 site survey pre-installation

### 1.1.6 Position (f)



**Figure 12: 22/04/2014 (site survey)**



**Figure 13: 15/02/2016 Site Survey pre installation**

### 1.1.7 Position (g)



Figure 14: Pre-installation 29/06/2016

### 1.1.8 Position (h)



Figure 15: 22/04/2014 (site survey)

### 1.1.9 Position (i)



Figure 16: 22/04/2014 (site survey)

### 1.1.10 Position (j)

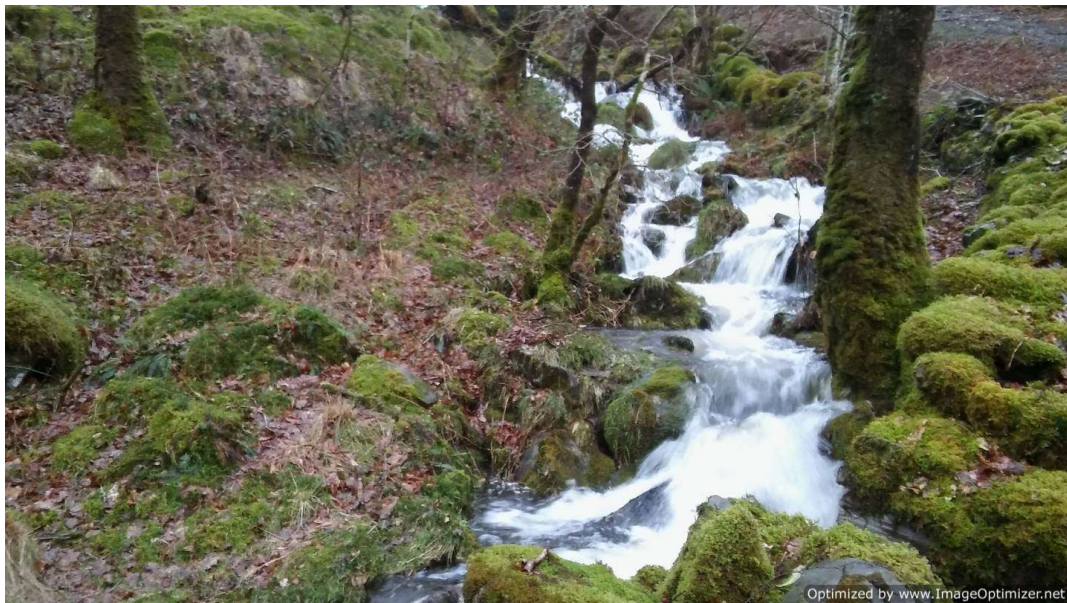


Figure 17: 22/04/2014 (site survey)

### 1.1.11 Position (k)



Figure 18: 21/12/2019 (Post commissioning)

### 1.1.12 Position (k)



Figure 19: 21/12/2019 (Post commissioning)