

Craigshill Wood Gauging Weir, River Fowey, Fish Passage Improvements - Designers Risk Assessment

The design for the proposed fish easement comprises the removal of five existing plastic lumber baffles, the extension of the central weir glacis and adjoining wingwalls downstream, the making good of fixing holes and any minor weir face damage/scour and the fixing of one hundred and forty-four proprietary Fish Brush heads to the weir's central downstream glacis to improve passage for salmonids. The weir is an Environment Agency Gauging Weir, part of the national network of river flow monitoring stations; while the works are taking place local EA Officers will be on site to install and supervise temporary river flow monitoring equipment. The weir is accessed from a private forestry access track.

	Activity	Risk	Level	Mitigation	Residual Risk
1	Weir visit	Falling in river, waterborne disease, drowning, slips and trips	Medium	River banks are clearly defined. Weir can be seen without entering river. If entering river, use access point available upstream of weir. Wear appropriate footwear/waders and lifejacket. Refer to activity 3 below.	Low
2	Moving around the river (sometimes deep and fast flowing water - the St Neot River experiences high summer flows due to water releases from Colliford Reservoir)	Falling / slipping in river, drowning, waterborne disease, slips and trips	Medium	No lone working when entering watercourse. Only enter river when levels are low, where appropriate waders, use wading staff if required, hand gel / wipes available, all personnel to wear life jacket when wearing waders or when there is risk of falling into water. Throw lines on hand at all times.	Low
3	Site mobilisation / demobilisation	Slips, trip and falls	Low	Demarc contractor's compound, protect soft/vulnerable surfaces with walking boards/bog mats	Low
3a	Crossing weir to access central channel	The weir's crest is formed from granite. It is extremely slippery when wet	Medium	As for 3, above. Also, avoid stepping on granite weir crest.	Low
4	Overhead and underground services	Collision with services - electricity, etc.	High	Overhead services clearly visible on site and marked on project drawings. Vehicular access route beneath overhead services to be guarded with proprietary Safety Goalposts when deemed necessary. Principle Contractor to undertake visual services check for overhead services and CAT scan all work areas prior to commencement of any works.	Low
5	Welfare facilities	Toilet, handwashing facilities and rest area required for site operatives	Medium	WC and hand washing facilities are to be provided by the Principle Contractor during the duration of the construction phase via portable cabin/van.	Low
6	Risk of falls from height	Falling from riverbanks/wingwalls into weir	Medium	Ensure wingwalls are suitably guarded. Fixed access ladders to be provided for access into watercourse/weir.	Low
7	Creating dry work areas	Falling in river, waterborne disease, drowning, slips and trips	Medium	Only enter river when levels are low, where appropriate waders, use wading staff if required, hand gel / wipes available, all personnel to wear life jacket when wearing waders or when there is risk of falling into water. Throw lines on hand at all times.	Low
8	Heavy plant vehicles on site	Collision	High	Daily tool-box talks to ensure all site personnel are aware of the work operations to be undertaken on that day. De-mark plant routes and/or working locations. Hi-Viz tops to be worn by all site personnel at all times. Hard hats to be worn when plant booms working overhead.	Low
9	Lifting operations	Collision with lifted loads, failure of plant/lifting equipment	High	Daily tool-box talks to ensure all site personnel are aware of the proposed lifting operations to be undertaken on that day. De-mark plant routes and/or plant/crane locations. Hi-viz tops to be worn by all site personnel at all times. Hard hats to be worn when plant booms and loads working overhead.	Low
10	Using powered hand tools	Cuts and bruises, vibration, dust	Low	Operators appropriately trained and experienced. Appropriate PPE to be worn at all times, proprietary battery powered and hydraulic tools only. Comply with HAVS work requirements.	Low
11	Hazardous chemicals	Burns, inhalation of toxic material	Medium	Proprietary systems and materials only, appropriate PPE. Follow manufacturer's recommendations. MSDS on site for all hazardous materials at all times.	Low
12	Moving around work site, physical work	Slips trips and falls	Low	Site rules - no running, appropriate PPE and footwear, qualified first aiders and first aid kit on site at all times.	Low
14	Pollution - water, air, ground	Release of toxic materials to the environment	Low	Follow agreed methods of work at all times. Adhere to PPG5 – Pollution Prevention Guidelines, Works and maintenance in or near water.	Low
15	Spread of invasive species	Release/spread of invasive flora and fauna onto site and	Low	Take all precautionary measures available. Comply with WRT Biosecurity Policy in full.	Low
16	Maintenance and monitoring - including inspections, replacement of damaged elements, cleaning and debris removal	Falling in river, waterborne disease, drowning, slips and trips, cuts and bruises	Medium	No lone working when entering watercourse. If entering watercourse refer to activities 1, 2 and 2a above. All elements of proposed fish passage easement are appropriate and proprietary for the proposed intended use. All construction proposed is of a standard nature, designed to allow easy maintenance. Completion/Handover document to be provided on project completion providing as built drawings and details of all components used and maintenance instructions; all maintenance required is anticipated to be of a standard nature. Work in pairs, adhere to all points above appropriate to task / situation.	Low

Prepared by: Westcountry Rivers Trust, February 2020

