

# Trewen Bridge Weir Fish Easement - Designers Risk Assessment

The proposed fish easement comprises the construction of a new glaciis downstream of the existing bridge foundation slab, the placement of 200mm high baffles down the face of the new glaciis to provide passage for salmonids, the formation of an eel pass on the left-hand bank formed from proprietary eel tiles and the making good of the adjoining wingwalls downstream of the bridge. Contractor's Design is required for structural elements of proposed new glaciis including concrete type and dimensions, steel reinforcement and cover requirements.

Activity	Risk	Level	Mitigation	Residual Risk
Site visit	Falling in river, waterborne disease, drowning, slips and trips	Medium	River separated from public space by bridge parapet walls, disinfect hands prior to eating, do not enter deep or fast flowing water, wear appropriate footwear and lifejacket	Low
Farm Animals	The site is within a working farm	Medium	Work areas to be securely fenced off from farm animals with proprietary	Low
Access and egress to / from river	Falling / slipping in river, waterborne disease, slips and trips	Medium	Fixed ladder entry points, only enter river when levels are low, where appropriate waders, disinfect hands prior to eating	Low
Moving around the river	Medium	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	Low
Plant and material delivery	Collision with large vehicles including excavator arms.	high	Ensure banksman oversees all vehicle movements. Safe working distances to be observed when plant in operation	Low
Manual Handling	Pulled and/or strained muscles	Medium	Do not exceed manual handling maximum weight recommendations. Use appropriate machinery to undertake physical activities whenever possible.	Low
Stability of excavations and structures	Crushing by collapse of structure and/or excavations	medium	Care taken not to undermine nearby structures. Excavations to be undertaken sequentially in small sections. All excavations to be appropriately fenced and covered overnight.	Low
Highway Traffic	Collision with vehicles	medium	Highway to be kept clear or appropriate traffic management to be in place if vehicles have to be parked on the highway. Operatives to wear high-viz jackets. Site signage notifying highway users of site entrance/works.	Low
Site mobilisation / demobilisation	Slips, trip and falls, ingress by general public	medium	Fence off contractor's compound, protect soft surfaces with walking boards	Low
Overhead and underground services	Collision with services - gas, electricity, raw sewage	High	Principle Contractor to undertake services check and CAT scan site	Low
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	Low
Using powered hand tools	Cuts and bruises, dust	Low	Appropriate PPE, proprietary battery powered and hydraulic tools only.	Low
Welfare facilities	Toilet, handwashing facilities and rest area required for site operatives	Medium	WC and hand washing facilities to be provided by the principle contractor.	Low
Hazardous chemicals	Burns, inhalation of toxic material	Medium	Proprietary systems and materials only, appropriate PPE	Low
Moving around site, physical work	Slips trips and falls	Low	Site rules - no running, appropriate PPE and footwear, qualified first aiders and first aid kit	Low
Maintenance and monitoring	Falling in river, waterborne disease, drowning, slips and trips	Medium	Work in pairs, adhere to all points above appropriate to task / situation	Low

Prepared by: David Chapman, Westcountry Rivers Trust, 3 July 2019

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