

# Felin Puleston Weir – Estimated Bill of Quantities

Project name: Felin Puleston Weir Removal									
Project location: Felin Puleston, Nr Wrexham									
Client: Welsh Dee Trust									
	Initial	Rev1	Rev2	Rev3	Rev4	Rev5	Rev6	Rev7	Rev8
Date	11/01/2022								
By	RW								
Checked	SB								
Approved	GH								

## Excavation Volumes – ALL WORKS

Volumes of excavation		
Feature	Excavation volume (m <sup>3</sup> )	Material type / comments
Weir structure removal (estimated)	~20	Removed weir material – mainly concrete, re-bar, rubble etc. This is based on the exposed area of weir, depth of concrete below bed level is unknown so uncertainty in this volume. <i>Note – volume given excludes a bulking/expansion factor.</i>
Reprofiling of channel bed and over excavation for features	680	Excavated river bed material – mixed boulders, cobbles, gravels, silts / sands / fines - retain any suitable boulders/ cobbles/gravels for use in rapid and bed check feature creation (following riddling). Excess material to be spread locally outside of flood zones. <i>Note – volume given excludes a bulking/expansion factor.</i>
Widening 1	450	Excavated floodplain material – mixed cobbles, gravels, silts / sands / fines - retain any suitable cobbles/gravels for use in rapid creation (following

Volumes of excavation		
Feature	Excavation volume (m <sup>3</sup> )	Material type / comments
		riddling). Excess material to be spread locally outside of flood zones. <i>Note – volume given excludes a bulking/expansion factor.</i>
Widening 2	460	Excavated floodplain material – mixed cobbles, gravels, silts / sands / fines - retain any suitable cobbles/gravels for use in rapid creation (following riddling). Excess material to be spread locally outside of flood zones. <i>Note – volume given excludes a bulking/expansion factor.</i>

## Infill Volumes – ALL WORKS

Volumes of infill		
Feature	Infill volume (m <sup>3</sup> )	Material type / comments
Rapid 1	170	Washed river small boulders/ cobbles/gravels (re-use from excavations where material is suitable for use, import likely to be required):  50% 200-300mm 25% 100-200mm 25% <100mm
Rapid 2	45	Washed river small boulders/ cobbles/gravels (re-use from excavations where material is suitable for use, import likely to be required):  50% 200-300mm 25% 100-200mm 25% <100mm
Rapid 3	40	Washed river small boulders/ cobbles/gravels (re-use from excavations where material is suitable for use, import likely to be required):  50% 200-300mm 25% 100-200mm 25% <100mm
Bed check feature	90	Washed river small boulders/ cobbles/gravels

Volumes of infill		
Feature	Infill volume (m <sup>3</sup> )	Material type / comments
		(re-use from excavations where material is suitable for use, import likely to be required):  30% 300-500mm 30% 200-300mm 30% 100-200mm 10% <100mm

*Note – volumes are estimates based on data available. Client should allow contingency for any changes encountered on site.*