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#### 4.0 REPAIR SCHEDULES

Repair schedules have been prepared for all structures along the length of the canal from Widnes to St Helens which do not inhibit navigation and which would remain after restoration.

The schedules contain assessments of the:

- anticipated life of the structure
- the repairs required for 10 year public liability cover, with estimated costs for those repairs
- the repairs required, with estimated costs, to obtain a 25 year life from the structure

In estimating the life of a structure the condition of each element has been considered and used to establish an overall value of the life. Where one element is in a very poor condition and all other elements are in good condition the structure's life has not been based on the life of the poor element alone.

Maintenance requirements to provide public liability cover are based on providing a safe structure. Items such as overall structural integrity, parapets and deck surfacing are key elements when considering public liability issues.

Maintenance requirements to provide a twenty five year design life are based on the results of the inspections undertaken for each structure.

### REPAIR SCHEDULES

**STRUCTURE NAME:** Canal Overflow

**STRUCTURE REF.:** A13

**CHAINAGE:** 24,130m

**LIFE OF STRUCTURE:** 15 Years

#### REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER

Repair Proposals	Cost (£)
Replace screen to weir inlet	1,500
Install screen to outlet	3,000

**TOTAL £4,500**

#### REPAIR REQUIREMENTS FOR 25 YEAR LIFE

Repair Proposals	Cost (£)
Replace screen to weir inlet	1,500
Install screen to weir outlet	3,000
General repair to culvert section of outfall	5,000

**TOTAL £9,500**

**STRUCTURE NAME:** New Double Lock  
**STRUCTURE REF.:** B19  
**CHAINAGE:** 22,750m  
**LIFE OF STRUCTURE:** Greater than 50 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Repoint sections of chamber walls and remove vegetation growth	1,000
Dredge the invert of the chambers and approaches to the structure	5,000

**TOTAL £6,000**

**STRUCTURE NAME:** Canal Overflow  
**STRUCTURE REF.:** C4  
**CHAINAGE:** 21,475m  
**LIFE OF STRUCTURE:** Greater than 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £ 0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
None	0

**TOTAL £ 0**

**STRUCTURE NAME:** Double Lock Footbridge

**STRUCTURE REF.:** C12

**CHAINAGE:** 20,700m

**LIFE OF STRUCTURE:** 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Resurface footbridge and form concrete ramps at each end of the structure	1,500

**TOTAL £1,500**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Resurface footbridge and form concrete ramps at each end of the structure	1,500
Paint steelwork	2,000

**TOTAL £3,500**

**STRUCTURE NAME:** Steel Footbridge  
**STRUCTURE REF.:** C13  
**CHAINAGE:** BB-80m (Blackbrook Branch)  
**LIFE OF STRUCTURE:** 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Repair damaged parapets	500

**TOTAL £500**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Repair damaged parapets	500
Paint the structure	1,250

**TOTAL £1,750**

**STRUCTURE NAME:** A58 Blackbrook Bridge  
**STRUCTURE REF.:** C14  
**CHAINAGE:** BB-500m (Blackbrook Branch)  
**LIFE OF STRUCTURE:** Greater than 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £ 0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Repoint areas of the red brick abutments and parapets (including the copings)	750

**TOTAL £750**

**STRUCTURE NAME:** Overflow Weir to Sankey Brook

**STRUCTURE REF.:** E15

**CHAINAGE:** 17,655m

**LIFE OF STRUCTURE:** 20 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Provide parapets over the weir	1,000

**TOTAL £1,000**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Provide parapets over the weir	1,000
Replace concrete sill to the weir	2,500
Repoint areas of brickwork	1,000
Form overflow channel from weir to Sankey Brook	3,000

**TOTAL £7,500**

**STRUCTURE NAME:** Bradley Lock

**STRUCTURE REF.:** G1

**CHAINAGE:** 16,375m

**LIFE OF STRUCTURE:** 0 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Rebuild areas of chamber walls, repoint masonry sections and remove vegetation growth	2,000
Dredge the invert of the lock chamber	5,000
Replace the lock gates, sills and gate sluices	25,000
Provide bywash channel	10,000
Provide ladders to the lock chamber	500

**TOTAL £42,500**

**STRUCTURE NAME:** Footbridge over Sluice

**STRUCTURE REF.:** K1

**CHAINAGE:** 10,575m

**LIFE OF STRUCTURE:** 15 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Repoint masonry abutments.	300
Replace timber superstructure including parapets.	5,000

**TOTAL £5,300**

**STRUCTURE NAME:** Canal Overflow

**STRUCTURE REF.:** K3

**CHAINAGE:** 10,465m

**LIFE OF STRUCTURE:** 5 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Resurface the base of the overflow channel after clearing the vegetation growth.	500
Clear vegetation growth from the weir apron.	200
Demolish the existing bridge which spans the overflow channel.	2,000
Construct new reinforced concrete bridge superstructure and intermediate supports.	2,500
New parapets.	750

**TOTAL £5,450**

**STRUCTURE NAME:** Bewsey Lock

**STRUCTURE REF.:** K4

**CHAINAGE:** 10,460m

**LIFE OF STRUCTURE:** 0 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Rebuild sections of the chamber walls, remove vegetation growth and repoint areas where mortar is missing.	1,000
Dredge the invert to the lock chamber.	2,000
Provide new lock gates, sills and gate sluices.	25,000
Provide a ladder to each chamber wall.	500
Clear debris from the stop plank grooves.	250

**TOTAL £28,750**

**STRUCTURE NAME:** Sankey Brook Overflow

**STRUCTURE REF.:** L6

**CHAINAGE:** 7,955m

**LIFE OF STRUCTURE:** 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Replace parapet to the overflow channel.	1,500
Replace the steel sluice gate located to the west of the overflow weir.	1,000

**TOTAL £2,500**

**STRUCTURE NAME:** Swing Footbridge

**STRUCTURE REF.:** L18

**CHAINAGE:** 5,620m

**LIFE OF STRUCTURE:** 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Replace the timber decking.	500

**TOTAL £500**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Annual maintenance of mechanical parts of the movement mechanism.	3,000
Paint the structure.	500
Replace the timber decking.	500

**TOTAL £4,000**

**STRUCTURE NAME:** Ferry Lock Swing Bridge

**STRUCTURE REF.:** L22

**CHAINAGE:** 5,480m

**LIFE OF STRUCTURE:** 30 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Resurface the carriageway and replace deck plates as necessary.	400

**TOTAL £400**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Paint all steelwork.	1,250
Annual maintenance of mechanical parts of the movement mechanism.	10,000
Resurface the carriageway and replace deck plates as necessary.	400
Replace the swing bridge buffer and bearings.	300

**TOTAL £11,950**

**STRUCTURE NAME:** Ferry Lock  
**STRUCTURE REF.:** L22A  
**CHAINAGE:** 5,485m  
**LIFE OF STRUCTURE:** Greater than 50 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
None	0

**TOTAL £0**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Repoint sections of the chamber walls, rebuild sections of brick infill and remove vegetation growth.	1,500
Dredge the invert to the lock chamber.	2,500
Replace the lock gates, sills and the gate sluices.	25,000

**TOTAL £29,000**

**STRUCTURE NAME:** Canal Overflow

**STRUCTURE REF.:** M17

**CHAINAGE:** 2,230m

**LIFE OF STRUCTURE:** 15 Years

**REPAIR REQUIREMENTS FOR 10 YEAR PUBLIC LIABILITY COVER**

Repair Proposals	Cost (£)
Provide new timber parapets to the footbridge.	600

**TOTAL £600**

**REPAIR REQUIREMENTS FOR 25 YEAR LIFE**

Repair Proposals	Cost (£)
Rebuild training walls to the overflow channel.	3,000
Rebuild weir.	500
Rebuild base to the overflow channel.	400
Replace the timber bridge including the provision of new parapets.	5,000

**TOTAL £8,900**