

# APPENDIX C - Leeds Local Flood Risk Management Strategy - List of Measures (Updated October 2020)

ID	Priority/ Current Phase	Scheduled phase Completion Date	Measure	Whole Scheme Estimated Cost	Location (if applicable)	Progress/Comments (reference other sources of information)
<b>SCHEMES &amp; FEASIBILITY STUDIES</b>						
S37	<b>HIGH - Construction</b>	<b>2024</b>	<b>Leeds Flood Alleviation Scheme Phase 2, River Aire City Centre to Upper Catchment</b>	£125.8m	River Aire - City Centre to Upper Catchment	Phase 2 of the Leeds FAS, looking at solutions across the whole catchment upstream of Leeds that will reduce flood risk to the city along the river Aire. Modelling and feasibility work largely complete, Outline Business Case submitted to the EA and Treasury Jan 2018. Moving in to more detailed design in 2018 with construction starting late 2018 early 2019, advanced works have taken place on some 'quick win' items and works at Stourton about to start as is a programme of advanced maintenance and stewardship.
S16	<b>HIGH - Construction completed</b>	<b>2023</b>	<b>Farnley Wood Beck Flood Alleviation Scheme</b>	£1.017m	Cottingley	Flood risk to residential areas, developer contribution secured of 300k. Scheme progressed in 2022/23 to remove culvert and increase capacity, protecting 15 properties. <b>Completed February 2023</b>
S29	<b>HIGH - Construction completed</b>	<b>2022/23</b>	<b>Queen Street Culvert</b>	44k	Allerton Bywater	In extreme storm a culvert overtops and spills out across the public right of way next to St Aidens Nature Reserve. Section 106 Agreement monies utilised. Growbags instead of a concrete headwall which will green up and naturalise over time and reduced the cost and the carbon footprint of the scheme. Some tree planting in March 2023 completed the scheme.
S18	<b>HIGH - Design/ Construction</b>	<b>2024/25</b>	<b>Sheepscar Beck Asset Remediation Work</b>	£1.5m	Sheepscar	Scheme is to carry out repair works to assets along Sheepscar Beck through the city centre and provide protection of business. Scoping and design of required refurbishment underway with tender and onsite in April 2024.
S10	<b>HIGH - Design/ Construction</b>	<b>2025</b>	<b>Thorner Beck Flood Alleviation Scheme and Natural Flood Management</b>	£1.220m	Thorner	Flood risk from Thorner Beck. Funding secured for a study to develop flood storage upstream of the village
S17	<b>HIGH - Optioneering</b>	<b>2023</b>	<b>Wortley Beck Flood Alleviation Scheme</b>	£10-20m	Wortley Beck	Flooding to residential areas and outer ring road. Work in partnership with the EA to develop a detailed flood alleviation scheme that integrates with all sources of flooding. Engagement planned for Summer 2024 and Business case expected 2024/25.
S22	<b>HIGH - Optioneering</b>	<b>2023</b>	<b>Meanwood Beck Flood Alleviation Scheme</b>	£tbc (4.465)m	Meanwood Beck	Flood risk from Meanwood Beck to residential properties and businesses. Local levy funding secured to carry out investigation into options for a flood alleviation scheme here. Investigation has identified potential flood storage areas for further investigation and initial design.

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S39	<b>HIGH - Feasibility</b>	<b>2023</b>	<b>Wharfedale Flooded Communities Feasibility Study</b>	£322k	Collingham, Linton, Wetherby, Thorp Arch	Linked to wider catchment partnership work with the Environment Agency, further modelling work currently being assessed, building on the public engagement undertaken in Summer 2021.
S12	<b>HIGH - Feasibility</b>	<b>2032</b>	<b>Potternewton Surface Water Flood Alleviation Scheme</b>	£tbck	Potternewton	Surface water flooding to residential properties, Potternewton Park and Newton Road. Funding secured for study here, exploring other funding options including Yorkshire Water to undertake a scheme.
S31	<b>MEDIUM - Feasibility</b>	<b>2023</b>	<b>Lin Dyke Catchment Assessment - Upper and Middle catchments</b>	£370k	Garforth & Kippax	Continuation of work included in Section 19 Report, regarding flooding of the SE Leeds area in August 2014 and 2015. Further modeling undertaken and results under evaluation. Funding options have been explored but as yet no economically viable scheme has been identified. However we continue to explore options.
S30	<b>MEDIUM - Feasibility</b>	<b>2023</b>	<b>Wyke Beck Catchment Assessment Phase 2</b>	£680k	Communities along Wyke Beck	Continuation of work carried out by both LCC & EA. This has now progressed in to a catchment wide approach. Exploring resourcing options to take this forward.
S11	<b>LOW - Pre Outline Business Case</b>	<b>2023</b>	<b>Guiseley Surface Water Flood Alleviation Scheme</b>	£250k	Guiseley	Surface water flooding to properties in Guiseley. Levy funding secured to support ongoing study into flood risk and options to address this undertaken. CCTV survey has been undertaken and is currently being assessed for options.
S21	<b>Ongoing</b>	<b>-</b>	<b>LCC Significant Maintenance</b>		Across the District	Continuation of regular maintenance of Watercourses and Hot-Spots

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<b>COMPLETED SCHEMES AND FEASIBILITY STUDIES - SINCE 2011</b>						
S6	Completed	2021	Mickletown (Pit Lane) Flood Embankment	£1.100k	Mickletown	Scheme completed January 2021
S38	Completed	2021	Otley Flood Alleviation Scheme	£4.45m	Otley	Detailed design completed, planning permission granted and conditions discharged. Funding has been confirmed and work is planned to start on site in March 2021. Linked to wider catchment partnership work and Wharfedale Flooded communities study
S15	Completed	2020	Killingbeck Meadows Flood Alleviation Scheme	£3m	Halton Moor	Flooding to residential and commercial areas from Wyke Beck. Accelerated scheme due to combining the benefits of releasing development sites (11 housing sites and land within the Enterprise Zone and providing green infrastructure improvements to a Local Nature reserve as well as providing flood risk reduction, the completed scheme will become a registered flood storage area under the Reservoirs Act. This forms part of a joint Wyke Beck Programme delivering housing growth from Brownfield land and Local Nature resrve and green space improvements.
S32	Completed	2020	Hawthorn Terrace Flood Alleviation Scheme	£100k	West Garforth	Initial scheme completed, but further defects with existing assets and connected infrastructure identified so further works needed and being designed
S20	Superceded	2020	Investigate the interaction between the Leeds and Liverpool Canal and the River Aire.	£10k	River Aire and Liverpool Canal	This study should identify the potential for managing this interaction to ensure that flood risk is managed effectively. This measure is listed in the Aire Aire Catchment Flood Risk Management Plan for the Leeds Policy Unit - to be progressed by 2030. - this has now been included in the scope of
S31	Completed	2019	Lin Dyke Catchment Assessment - Upper and Middle catchments	£1.25m	Garforth & Kippax	Continuation of work included in Section 19 Report, regarding flooding of the SE Leeds area in August 2014 and 2015, design works are contuning to be progressed as schemes are identified
S14	Completed	2017	Carry out flood warning feasibility studies for Wortley Beck and Meanwood Beck and implement findings.	£10k	Wortley Beck and Meanwood Beck	This measure is listed in the Aire Catchment Flood Risk Management Plan
S3	Completed	2017	Leeds Flood Alleviation Scheme Phase 1, River Aire City Centre	£50.6m	River Aire - City Centre	Scheme Completed
S8	Completed	2017	Cotton Mill Beck Culvert, Valley Road	N/A	Morley	Scheme passed to network rail
S35	Completed	2018	Westfields, Allerton Bywater	£502K	Allerton Bywater	Scheme Completed

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S34	Completed	2017	Glebelands Recreation Ground	£100k	Garforth	Scheme Completed
S36	Completed	2017	Barley Hill Recreation Ground (Phase 2)	£100k	West Garforth	Scheme Completed
S2	Completed	2017	Ramsden Street, Kippax, Flood Alleviation Scheme - (Local Levy & FDGiA)	£305k	Kippax	Scheme Completed
S1	Completed	2014	Lowther Road, Garforth - Culvert Improvements	£220k	Garforth	Scheme Completed
S4	Completed	2014	Wellhouse Drive Flood Alleviation Scheme	£50k	Gledhow	Scheme Completed
S7	Completed	2014	Culvert Headwall Repair Scheme - (Local Levy)	£50k	Otley	Scheme Completed
S28	Completed	2013	Oakdene, Watercourse Improvements	£20k	Swillington	Scheme Completed
S27	Completed	2012	Barley Hill Recreation Ground - (Local Levy)	£75k	West Garforth	Scheme Completed
S22	Completed	2011	Flood Alleviation Scheme - Leeds Road (Allerton Bywater) pumping station (local levy)	£30k	Allerton Bywater	Scheme Completed
S23	Completed	2011	Newton Road property protection and resilience scheme	£20k	Newton Road, Potternewton	Scheme Installed
S24	Completed	2011	Lower Wortley - property protection and resilience scheme	£20k	Lower Wortley	Scheme Installed
S25	Completed	2011	Church Lane, Bardsey - property protection and resilience scheme	£20k	Bardsey	Scheme Installed
S26	Completed	2011	Dean Park Drive, Drighlington - property protection and resilience scheme	£20k	Drighlington	Scheme Installed