

APPENDIX C - Leeds Local Flood Risk Management Strategy - List of Measures

ID	Priority	Scheduled Completion Date	Measure	PF % Score	Location (if applicable)	Category	Relevant Objective from LFRMS	Progress/Comments (reference other sources of information)	Benefits/ Outcome	Costs/ Resource Implications	Lead Organisation	Support Organisation	Measure Owner	Last Updated
SCHEMES & FEASIBILITY STUDIES														
81	Construction Stage	2012	Barley Hill Recreation Ground - (Local Levy)	N/A	West Garforth	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Construction Stage	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Parks and Countryside	21/08/2012
82	Construction Stage	2012	Flood Alleviation Scheme - Collingham Beck		Collingham Beck	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme being Progressed - partially complete. This measure is listed in the Ouse CFMP for the Collingham Beck Policy Unit - to be progressed by 2015.	Reduce flood risk from Collingham Beck	Staff time and capital resource	Environment Agency	Leeds City Council	Environment Agency	21/08/2012
83	Design Stage	2012	Lower Road, Garforth - Culvert Improvements		Garforth	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Restricted culvert, bypass culvert - Scheme being scoped	Improve flood resistance and resilience of properties	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	21/08/2012
84	Design Stage	2012	Ramsden Street, Kippax, Flood Alleviation Scheme - (Local Levy)	N/A	Kippax	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Design Stage	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	21/08/2012
85	HIGH (1)	2018	Leeds Flood Alleviation Scheme, River Aire		River Aire - Newlay to Woodfores	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	The approved Upper Aire Strategy considered many options for the protection of Leeds City, the economic centre of the region. The Leeds FAS developed a comprehensive scheme for the River Aire and its Beck in Leeds to FARE stage, which was approved by the EA Board in late 2010. However, due to the value of the scheme this was considered to be unaffordable. The Secretary of State provided an assurance that more resources could be made available to explore possible alternatives, including lesser solutions and alternative sources of funding. Work is underway on exploring alternatives so that Leeds CC and their elected members can decide which option to proceed with, and how the additional funding might be found.	Reduce flood risk from River Aire	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Highways Design	21/08/2012
86	HIGH (2)	2018	Station Road (Cotton Mill Beck) - Culvert Replacement		Morley	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Culverted watercourse surcharges causing flooding to Morley Rail Station and the Transpennine railway - scheme being scoped	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	21/08/2012
87	HIGH (2)	2018	Culvert Headwall Repair Scheme - (Local Levy)		Olley	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Urgent works to repair culverting culvert. Clear debris from channel and rebuild headwall. LCC have already undertaken emergency works	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
88	HIGH (3)	2018	Victoria Place Flood Alleviation Scheme		Mickleton	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Flooding to residential land. Construct flood embankment and install pumping station to remove accumulated surface water.	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
89	HIGH (4)	2015	Carry out flood warning feasibility studies for Wortley Beck and Mearwood Beck and implement findings.		Wortley Beck and Mearwood Beck	1. Flood awareness, response and recovery	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	This measure is listed in the Aire CFMP for the Leeds Policy Unit - to be progressed by 2015.	Establish the potential for advanced warning of flooding. Develop more accurate flood warnings for tributaries of the River Aire which will result in reduction of economic damages and improve community safety.	EA staff time and capital resource	Environment Agency	Leeds City Council	Environment Agency	30/08/2012
90	MEDIUM	2024	Wakefield Road Flood Alleviation Scheme		Garforth	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Restricted culvert and surface water flow. Install new culvert and widen highway ditch.	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
	MEDIUM	2030	Potternewton Surface Water Flood Alleviation Scheme		Potternewton	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Surface water flooding. Install attenuation and pumping station to remove flood water to adjacent culverted watercourse	Reduces flood risk	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
91	MEDIUM	2024	Wellhouse Drive Flood Alleviation Scheme		Ossett	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Channelised Channel - Channel Improvements	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
92	MEDIUM	2024	Thornor Beck Flood Alleviation Scheme		Thornor	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Reduced capacity of existing drains causing flooding. Improve drain capacity.	Reduce flood risk	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
93	LOW	2030	Wyle Beck Flood Alleviation Scheme		Halton Moor	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Work in partnership with the EA to complete a fluvial flood alleviation scheme to improve the standard of flood protection along Wyle Beck. This measure is listed in the Aire CFMP for the Leeds Policy Unit - to be progressed by 2015.	The risk of flooding will be managed	Staff time and capital resource	Leeds City Council	Leeds City Council	Environment Agency	30/08/2012
94	LOW	2030	Farnley Wood Beck Flood Alleviation Scheme		Cottingham	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Flood risk to residential areas. Long term measures to be progressed.	Reduce flood risk from Farnley Wood Beck	Staff time and capital resource	Leeds City Council	Leeds City Council	Environment Agency	21/08/2012
95	LOW	2030	Wortley Beck Flood Alleviation Scheme		Wortley Beck	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Work in partnership with the EA to develop a detailed flood alleviation scheme that integrates with all sources of flooding. This measure is listed in the Aire CFMP for the Leeds Policy Unit - to be progressed by 2015.	The risk of flooding will be reduced from all sources and take into account the implications of climate change.	Staff time and capital resource	Leeds City Council	Leeds City Council	Environment Agency	30/08/2012
96	LOW	2030	Victoria Road Surface Water Flood Alleviation Scheme		Guiseley	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Surface water flooding to properties. Install attenuation and pumping station to remove flood water to adjacent culverted watercourse.	Reduces flood risk	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	22/08/2012
98	LOW	2030	Sheepscar: evaluate the condition of formal and informal flood defences along the Sheepscar Beck which were recently breached to identify potential remedial works required.		Sheepscar	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Need an update on this study?	Helps ensure that problems or new works are identified to prevent recurrence of flooding.	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	21/08/2012
99	LOW	2030	Develop and implement feasibility studies for fluvial flood alleviation schemes to improve the standard of protection along Mearwood Beck, Bagley Beck and Farnley Wood Beck - integrating with all sources of flooding.		Mearwood Beck, Bagley Beck & Farnley Wood Beck	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	This measure is listed in the Aire CFMP for the Leeds Policy Unit - to be progressed by 2030.	Helps ensure that areas with proven flood risk are provided with an appropriate flood defence scheme at the earliest possible opportunity and that the Council supports the EA in developing any flood alleviation scheme in the longer-term	Staff time and capital resource	Leeds City Council	Leeds City Council & Yorkshire Water Services	Environment Agency	30/08/2012
100	LOW	2030	Investigate the interaction between the Leeds and Liverpool Canal and the River Aire.		River Aire and Liverpool Canal	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	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 CFMP for the Leeds Policy Unit - to be progressed by 2030.	Investigate this relationship to improve knowledge of the risk of flooding posed by the Leeds & Liverpool canal	EA staff time and capital resource	Leeds City Council	Canal & River Trust	Environment Agency	30/08/2012
101	?	?	YWS D05 schemes?? Need to include some detail about these?		?			TBC			Leeds City Council	?	?	?
COMPLETED SCHEMES AND FEASIBILITY STUDIES - SINCE 2011														
102	Completed	2011	Flood Alleviation Scheme - Leeds Road (Alerton Bywater) pumping station (local levy)		Alerton Bywater	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme Completed	Reduce risk of flooding	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	04/07/2012
103	Completed	2011	Newton Road property protection and resilience scheme		Newton Road, Potternewton	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme Installed	Improve flood resistance and resilience of properties	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	04/07/2012
104	Completed	2011	Lower Wortley - property protection and resilience scheme		Lower Wortley	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme Installed	Improve flood resistance and resilience of properties	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	04/07/2012
105	Completed	2011	Church Lane, Bartsley - property protection and resilience scheme		Bradley	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme Installed	Improve flood resistance and resilience of properties	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	04/07/2012
106	Completed	2011	Dean Park Drive, Drighlington - property protection and resilience scheme		Drighlington	3. Studies, schemes, assessments and plans	6. Improve understanding of local flood risk and seek to decrease local flood risk through implementation of affordable, high quality measures to alleviate flooding where practicable.	Scheme Installed	Improve flood resistance and resilience of properties	Staff time and capital resource	Leeds City Council	Environment Agency	LCC Flood Risk Management	04/07/2012