APPENDIX D: SEA MATRICES FOR THE LOCAL FLOOD RISK MANAGEMENT STRATEGY

Summary of SEA scores for the LFRMS Policies

Key of Impact Significance

+	Positive Impact	0	Neutral (No) Impact
-	Negative Impact	?	Unknown Impact

LFRMS Policy or Objective	SEA Objectives														
	1. Minimise the probability and consequences of flooding	2. Minimise the probability and consequences of climate change	3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	4. Maintain and where possible enhance biodiversity, geodiversity and soils	5. Protect and where possible enhance the landscape and green infrastructure	6. Protect and where possible enhance townscapes and cultural heritage	7. Ensure the efficient use of land	8. Protect and where possible enhance the health and well-being of the population	9. Support the sustainable growth of the City Region	10. Minimise economic and social exclusion for all	11. Protect existing and future economic and social infrastructure assets, services and amenities	12. Maintain and where possible enhance the transport network	Overall Impact Summary	Comments	Conclusions
1. Improve and maintain flood risk evidence base	+	+	+	+	+	+	+	+	+	+	+	+	Minor positive impacts from all objectives as improving the evidence base enables a more informed and targeted approach to achieving sustainable management of flood risk in Manchester	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives
2. Local Flood Risk Management interventions seeking to reduce the likelihood, severity and consequences of flooding from ordinary watercourses, ground water and surface water runoff.	++	++	+	+	+	+	+	++	+	+	++	++	Positive impacts from all objectives as physical works will reduce the risk of flooding whilst providing wider environmental opportunity to improve biodiversity and landscape.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives
3. Local Flood Risk Management Authorities and other key stakeholders working together to progress priority interventions that	++	++	+	+	+	+	+	+	+	+	+	+	Positive impacts from all objectives as working in partnership with other RMAs will reduce the risk of flooding whilst providing wider environmental opportunity to improve	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives

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LFRMS Policy or Objective	SEA Objectives														
	1. Minimise the probability and consequences of flooding	2. Minimise the probability and consequences of climate change	3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	4. Maintain and where possible enhance biodiversity, geodiversity and soils	5. Protect and where possible enhance the landscape and green infrastructure	6. Protect and where possible enhance townscapes and cultural heritage	7. Ensure the efficient use of land	8. Protect and where possible enhance the health and well-being of the population	9. Support the sustainable growth of the City Region	10. Minimise economic and social exclusion for all	11. Protect existing and future economic and social infrastructure assets, services and amenities	12. Maintain and where possible enhance the transport network	Overall Impact Summary	Comments	Conclusions
support the aim and objectives of the LFRMS													biodiversity and landscape.		
4. Monitor and maintain drainage infrastructure within Manchester	++	++	+	+	+	+	+	+	+	+	+	+	Positive impacts from the majority of the objectives as monitoring and maintaining the drainage infrastructure will reduce the risk of flooding.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives
5. Promote awareness of local flood risk and ways that the risk can be managed by people and communities.	++	++	+	+	+	+	+	++	+	+	+	+	Positive impacts from all objectives as promoting awareness of local flood risk will enable communities to be better prepared and be better able to manage the consequences of flood risk whilst identifying solutions to manage flood risk and opportunities for providing wider economic, social and environmental benefits.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives

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LFRMS Policy or Objective	SEA Objectives														
	1. Minimise the probability and consequences of flooding	2. Minimise the probability and consequences of climate change	3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	4. Maintain and where possible enhance biodiversity, geodiversity and soils	5. Protect and where possible enhance the landscape and green infrastructure	6. Protect and where possible enhance townscapes and cultural heritage	7. Ensure the efficient use of land	8. Protect and where possible enhance the health and well-being of the population	9. Support the sustainable growth of the City Region	10. Minimise economic and social exclusion for all	11. Protect existing and future economic and social infrastructure assets, services and amenities	12. Maintain and where possible enhance the transport network	Overall Impact Summary	Comments	Conclusions
6. Ensure that local flood risk is properly considered for new development proposals.	++	++	+	+	+	+	+	+	+	+	+	+	Positive impacts from all objectives as will ensure that new development is directed to areas of lower flood risk, and that new development does not increase the risk facing other areas. Also opportunities to promote multifunctional use in masterplans to have wider environmental benefit.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives
7. Ensure that the LLFA responds to appropriate consultation exercises on matters affecting Local Flood Risk Management.	+	+	0	0	0	0	+	+	+	+	+	+	Positive impacts from the majority of objectives as improved level of understanding of flood risk can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flooding.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives
8. Ensure that the LLFA investigates and reports on flood incidents appropriately.	++	++	0	0	0	0	+	+	+	+	+	+	Positive impacts from the majority of objectives as recording incidents and understanding the type and magnitude of flood risk will provide a better basis to manage	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives

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LFRMS Policy or Objective	SEA Objectives														
	1. Minimise the probability and consequences of flooding	2. Minimise the probability and consequences of climate change	3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	4. Maintain and where possible enhance biodiversity, geodiversity and soils	5. Protect and where possible enhance the landscape and green infrastructure	6. Protect and where possible enhance townscapes and cultural heritage	7. Ensure the efficient use of land	8. Protect and where possible enhance the health and well-being of the population	9. Support the sustainable growth of the City Region	10. Minimise economic and social exclusion for all	11. Protect existing and future economic and social infrastructure assets, services and amenities	12. Maintain and where possible enhance the transport network	Overall Impact Summary	Comments	Conclusions
													flood risk and the consequences of flood risk		
9. Aim to contribute towards the achievement of sustainable development in undertaking flood risk management functions.	+	+	+	+	+	+	+	+	+	+	+	+	Positive impacts as striving towards sustainable development will seek to minimise the probability and consequences of flooding through the provision of robust flood risk management measures for new development.	There are no conflicts between objectives	Acceptable - LFRMS policy or action meets the SEA Objectives

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Duration		Permanence	
ST	Short Term	T	Temporary
MT	Medium Term	P	Permanent
LT	Long Term		

LFRMS Policy 1 - Work to maintain and improve the local flood risk management evidence base will be undertaken to support both risk assessment and the prioritisation of future actions to manage risk, in line with the Aim and Objectives of the LFRMS

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	+	Although the measures associated with this LFRMS policy will not result directly in physical works to manage the risk of flooding, the measures should combine to have an indirect positive effect on overall flood risk by improving the level of evidence and skills available to the Council for dealing with flood risk.	ST	P
2. Minimise the probability and consequences of climate change	+	Although the measures associated with this LFRMS policy will not result directly in physical works to manage the risk of flooding, the measures should combine to have an indirect positive effect on overall flood risk by improving the level of evidence and skills available to the Council for dealing with flood risk in the future as a result of climate change.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	An improved evidence base will provide a better basis to identify opportunities to enhance water bodies as part of sustainable flood risk management.	MT	P
4. Maintain and where possible enhance biodiversity,	+	An improved evidence base will provide a better basis to identify opportunities to enhance biodiversity as part of sustainable flood risk management.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
geodiversity and soils				
5. Protect and where possible enhance the landscape and green infrastructure	+	An improved evidence base will provide a better basis to identify opportunities to enhance landscape and use of green infrastructure as part of sustainable flood risk management.	MT	P
6. Protect and where possible enhance townscapes and cultural heritage	+	An improved evidence base will provide a better basis to manage flood risk to both designated and undesignated heritage assets within Manchester, thereby having a positive effect on the quality of the historic environment.	MT	P
7. Ensure the efficient use of land	+	An improved evidence base will provide a better basis to ensure efficient use of land to steer development towards brownfield sites and away from flood risk areas.	MT	P
8. Protect and where possible enhance the health and well-being of the population	+	An improved evidence base will provide a better basis to manage flood risk and consequences of flood risk to leisure and recreation facilities and will help identify opportunities to promote multifunctional use of land to provide a positive effect on the health and wellbeing of the population.	MT	P
9. Support the sustainable growth of the City Region	+	Improving the evidence base available to the Council in relation to flood risk will help to inform appropriate decision-making regarding the siting of new development. In particular mapping the location of flooding incidents will improve the evidence base regarding historical incidences of flooding, which can be used to inform future decision making. In addition, designating flood/drainage assets is likely to enhance their status and may mean that the need to avoid new development having an adverse impact on such assets is given greater consideration. By identifying the location of drainage assets, further geographical information relevant to flood risk management will be available, which can be taken into consideration when assessing potential new development sites.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
10. Minimise economic and social exclusion for all	+	An improved evidence base and knowledge available to the Council will provide a better basis to manage flood risk in the most socially deprived areas. In particular mapping the location of flooding incidents will improve the evidence base regarding historical incidences of flooding, which can be used to inform future decision making and prioritise mitigation measures for those areas which may be considered more vulnerable.	MT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	An improved evidence base and knowledge available to the Council will provide a better basis to manage flood risk and consequences of flood risk on the infrastructure and services in the City.	MT	P
12. Maintain and where possible enhance the transport network for all users	+	An improved evidence base and knowledge available to the Council will provide a better basis to manage flood risk and consequences of flood risk on the transport infrastructure in the City.	MT	P

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LFRMS Policy 2 - Local Flood Risk Management interventions will seek to reduce the likelihood, severity and consequences of flooding from ordinary watercourses, ground water and surface water runoff. Interventions that reduce the risks to People, especially vulnerable people; Residential Properties, particularly basement flats; and Critical Infrastructure will be prioritised. Locations that have been subject to recorded incidents of local flooding will normally be prioritised over those areas where risk is just modelled.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	++	This policy will involve physical works to reduce flood risk and the consequences of flood risk; e.g. replacement of trash screens, upsizing of culverts, flood defences, retrofit of SUDS.	ST	P
2. Minimise the probability and consequences of climate change	++	This policy will involve physical works to reduce flood risk and the consequences of flood risk taking into consideration climate change impacts through increased intensity of rainfall and reduced standard of protection offered by existing assets.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	Physical works to reduce flood risk will help to protect water quality by reducing the likelihood of adverse impacts arising from flood events (e.g. as a result of soil erosion or run-off washing chemical fertilisers into watercourses). The removal of rubbish from channels and invasive species will improve the ecological status of water bodies. Opportunities to enhance water bodies as part of sustainable flood risk management will be identified as part of the appraisal of appropriate intervention measures to reduce flood risk.	MT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	Physical works to reduce flood risk should help to protect biodiversity from the potential adverse impacts of flood events (including both direct impacts and indirect impacts e.g. those resulting from water pollution caused by flooding). The removal of rubbish from channels and invasive species will improve biodiversity. Opportunities to enhance biodiversity as part of sustainable flood risk management will be identified as part of the appraisal of appropriate intervention measures to reduce flood risk.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
5. Protect and where possible enhance the landscape and green infrastructure	+	The measures associated with this LFRMS policy should help to protect green infrastructure and changes to the landscape through sustainable flood risk management. There is the opportunity that physical works can enhance the landscape and green infrastructure through soft engineering techniques.	MT	P
6. Protect and where possible enhance townscapes and cultural heritage	+	The measures associated with this LFRMS policy should help to reduce the risk that both designated and undesignated heritage assets within Manchester face from flooding, thereby having a positive effect on the quality of the historic environment.	MT	P
7. Ensure the efficient use of land	+	The policy will seek to ensure efficient use of land through improved drainage and the use of SUDS in order to steer development towards brownfield sites and away from flood risk areas. Promoting multi functional space, space for wildlife and local green space as part of the appraisal of flood intervention measures will ensure land is used in the most efficient and sustainable manner.	MT	P
8. Protect and where possible enhance the health and well-being of the population	++	The measures associated with this LFRMS objective should help to reduce the risk of health impacts of sewer flooding and reduce the risk of flooding to recreation and amenity features, thereby having a positive effect on the health and wellbeing of the population. Removal of rubbish from channels improving recreational and amenity benefit of riverside walks. Promoting multi functional space, space for wildlife and local green space as part of the appraisal of flood intervention measures could enhance the health and well being of the population.	MT	P
9. Support the sustainable growth of the City Region	+	The measures associated with this LFRMS policy will ensure that growth areas are protected from flooding allowing sustainable development within the City.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
10. Minimise economic and social exclusion for all	+	The measures associated with this LFRMS policy will involve physical works to protect areas at risk of flooding. The Grant in Aid funding prioritises areas of social deprivation and will form part of the MCC prioritisation of schemes to be put forward for funding with the aim that social and economic exclusion is minimised.	MT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	++	The measures associated with this LFRMS policy will involve physical works to protect economic and social infrastructure assets, services and amenities that are currently at risk of flooding and those predicted to be at risk from climate change.	MT	P
12. Maintain and where possible enhance the transport network for all users	++	The measures associated with this LFRMS policy will involve physical works to reduce the risk of flooding with the aim to minimise the impact on transport networks through road closures and delays to train, bus and metro services.	MT	P

LFRMS Policy 3 - Local Flood Risk Management Authorities and other key stakeholders will work together to progress priority interventions that support the aim and objectives of the LFRMS.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	++	The measures associated with this LFRMS policy will have a positive effect on overall flood risk as they will improve communication between the Council, its partners and stakeholders and the general public. The resulting improved understanding of flood risk amongst partners and stakeholders should encourage support and increase the success of flood risk management measures thereby contributing to a reduction in overall flood	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
		risk.		
2. Minimise the probability and consequences of climate change	++	The measures associated with this LFRMS policy will have a positive effect on overall flood risk as they will improve communication between the Council, its partners and stakeholders and the general public. The resulting improved understanding of flood risk amongst partners and stakeholders should encourage support and increase the success of flood risk management measures thereby contributing to a reduction in overall flood risk and adapt to the effects of climate change.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	By contributing to an overall reduction in flood risk by improving partnership working with other authorities and stakeholders and improving co-working between various flood management policies and programmes, the measures associated with this LFRMS policy should have an indirect positive effect on the protection of water quality by reducing the likelihood of adverse impacts occurring from flooding events (e.g. as a result of soil erosion or run-off washing chemical fertilisers into watercourses). Working together in partnership could identify opportunities to enhance water bodies as part of sustainable flood risk management.	MT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	By contributing to an overall reduction in flood risk by improving partnership working with other authorities and stakeholders and improving co-working between various flood management policies and programmes, the measures associated with this LFRMS policy should have an indirect positive effect on the protection of biodiversity from the potential adverse impacts of flood events (both direct impacts and indirect impacts e.g. those resulting from water pollution caused by flooding). Working together in partnership could identify opportunities to enhance biodiversity, geodiversity and quality of soils as part of sustainable flood risk management.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
5. Protect and where possible enhance the landscape and green infrastructure	+	Working together in partnership could identify opportunities to enhance landscape and use of green infrastructure as part of sustainable flood risk management.	MT	P
6. Protect and where possible enhance townscapes and cultural heritage	+	By contributing to an overall reduction in flood risk by improving partnership working with other authorities and stakeholders and improving co-working between various flood management policies and programmes, the measures associated with this LFRMS objective should help to reduce the number of both designated and undesignated heritage assets within Manchester that are at risk from flooding, thereby having an indirect positive effect on the quality of the historic environment.	MT	P
7. Ensure the efficient use of land	+	The development of partnership working with other Risk Management Authorities will help to ensure efficient use of land through improved drainage and the use of SUDS in order to steer development towards brownfield sites and away from flood risk areas. Working together could identify opportunities for promoting multi functional space, space for wildlife and local green space as part of the appraisal of flood intervention measures which will ensure land is used in the most efficient and sustainable manner.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
8. Protect and where possible enhance the health and well being of the population	+	The development of partnership working with other Risk Management Authorities will provide a better basis to manage flood risk and consequences of flood risk to existing leisure and recreational facilities. This could have a positive impact upon human health and wellbeing. Working together could identify opportunities for promoting multi functional space, space for wildlife and local green space as part of the appraisal of flood intervention measures which could enhance the health and well being of the population.	MT	P
9. Support the sustainable growth of the City Region	+	The development of partnership working with other Risk Management Authorities will provide a better basis to manage flood risk and consequences of flood risk. This could maintain and even minimise flood incidents within the borough therefore maintaining or even aiding in economic growth within the borough.	MT	P
10. Minimise economic and social exclusion for all	+	The development of partnership working with other Risk Management Authorities will provide a better basis to manage flood risk and consequences of flood risk and should have positive effects in relation to information sharing and stakeholder engagement. The Grant in Aid funding prioritises areas of social deprivation and will form part of the Risk Management Authorities' prioritisation of schemes to be put forward for funding with the aim that social and economic exclusion is minimised.	MT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	The development of partnership working with other Risk Management Authorities will provide a better basis to manage flood risk and consequences of flood risk. Working in partnership will help to understand the economic and social infrastructure assets, services and amenities that are currently at risk of flooding and those predicted to be at risk from climate change from all sources of flooding. The policy should also help to minimise the risk of flooding (including to community and economic assets) as policies and programmes aiming to manage flood risk will be more successful when they share aims and seek to support one another.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
12. Maintain and where possible enhance the transport network for all users	+	Although there are no direct links between the measures associated with this objective and the implementation of physical works to manage the risk of flooding to the City's transport network, the measures should combine to have an indirect positive effect on overall flood risk (and therefore also the potential impacts on the transport network) by improving levels of public understanding and engagement with flood risk management by LLFA partners and stakeholders. While it is not currently clear exactly what actions the measures will involve, i.e. which stakeholders will be targeted as the Council seeks to communicate its strategy, if the Council were to work directly with relevant partners such as the Highways Agency it should be possible to ensure that appropriate resilience measures are in place to minimise the potential impacts as far as possible when flood events do occur.	MT	P

LFRMS Policy 4 – Monitor and maintain drainage infrastructure within Manchester to support the aim and objectives of the LFRMS. Given the complex and interconnected nature of drainage infrastructure effective communication between Risk Management Authorities and other stakeholders will be essential.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	++	This policy will involve physical works to reduce flood risk and the consequences of flood risk; e.g. blockage of gulleys, replacement of failing assets, etc.	ST	P
2. Minimise the probability and consequences of climate change	++	This policy will involve physical works to reduce the risk and the consequences of flooding from climate change by improving standard of protection offered by existing assets or providing new flood risk management measures.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	This policy will involve physical works to improve the drainage structure which may include silt traps and interceptors which will improve the quality of the water draining into rivers and water bodies.	MT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	This policy will involve physical works to improve the drainage structure which may include removal of rubbish and silt within watercourses which will improve the habitat enhancing biodiversity.	MT	P
5. Protect and where possible enhance the landscape and green infrastructure	+	This policy will involve physical works to improve the drainage structure which may include restoration of watercourses which will enhance the landscape and green infrastructure provision.	MT	P
6. Protect and where possible enhance townscapes and cultural heritage	+	This policy will involve physical works to reduce flood risk and the consequences of flood risk. This could protect and possibly enhance the townscapes and cultural heritage through reduction in areas suffering from poor drainage and ponded water.	MT	P
7. Ensure the efficient use of land	+	This policy will provide a better basis to ensure efficient use of land through improved drainage and the use of SUDS in order to steer development towards brownfield sites and away from flood risk areas.	MT	P
8. Protect and where possible enhance the health and well-being of the population	++	This policy will provide a better basis to manage flood risk and consequences of flood risk. This could have a positive impact upon human health and wellbeing through improvements to the drainage of existing leisure and recreational facilities. Also improved drainage infrastructure will reduce the harmful effects of flooding on human health and well-being.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
9. Support the sustainable growth of the City Region	+	This policy will provide a better basis to ensure drainage infrastructure has the capacity to support the sustainable growth of the City Region. This objective will identify works for improvements to the existing drainage structure, opportunities for retrofitting SUDS and opportunities for new strategic SUDS to facilitate future development.	MT	P
10. Minimise economic and social exclusion for all	+	The policy will provide a better basis to manage flood risk and consequences of flood risk from drainage infrastructure within areas with social deprivation.	MT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	++	The policy will involve physical works to reduce flood risk and the consequences of flood risk. This will help protect economic and social infrastructure assets, services and amenities that are currently at risk of flooding rom drainage infrastructure and those predicted to be at risk from climate change.	MT	P
12. Maintain and where possible enhance the transport network for all users	++	This policy will provide a basis to manage flood risk and consequences of flood risk. This will help to minimise the impact on transport networks through road closures and delays to train, bus and metro services.	MT	P

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LFRMS Policy 5 - Promote awareness of local flood risk and ways that the risk can be managed by people and communities.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	++	Improved communication of flood risk will enable people and communities to be prepared and better able to manage flood risk and consequences of flood risk. Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation.	MT	P
2. Minimise the probability and consequences of climate change	++	Improved communication of flood risk will enable people and communities to be prepared and better able to manage flood risk and consequences of flood risk as a result of climate change. Improving the level of understanding of flood risk could heighten awareness of localised problems and help to provide a local response to Climate Change implications.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This could improve the quality of water bodies.	LT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This could improve the quality of soils and biodiversity and protect important habitats.	LT	P
5. Protect and where possible enhance the landscape and green infrastructure	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This could lead to identification of opportunities to enhance landscape and use of green infrastructure as part of sustainable flood risk management.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
6. Protect and where possible enhance townscapes and cultural heritage	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This could provide a better basis to manage flood risk to cultural heritage.	MT	P
7. Ensure the efficient use of land	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This should help to protect land and reduce the likelihood of adverse effects from flooding events (e.g. high levels of surface water run-off from development of greenfield land).	MT	P
8. Protect and where possible enhance the health and well-being of the population	++	Improving the level of understanding of flood risk could have a positive impact upon human health and well-being through reduced stress levels from being better prepared to deal with flooding. Improved awareness of localised problems could increase the likelihood of providing suitable mitigation, e.g. opportunities to help to protect existing leisure and recreational facilities.	MT	P
9. Support the sustainable growth of the City Region	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This could maintain and even minimise flood incidents within the borough therefore maintaining or even aiding in economic growth within the borough.	MT	P
10. Minimise economic and social exclusion for all	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. Promoting awareness across Manchester will minimise economic and social exclusion.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This will help protect economic and social infrastructure assets, services and amenities that are currently at risk of flooding and those predicted to be at risk from climate change.	MT	P
12. Maintain and where possible enhance the transport network for all users	+	Improving the level of understanding of flood risk could heighten awareness of localised problems and therefore increase the likelihood of providing suitable mitigation. This will help to minimise the impact on transport networks through road closures and delays to train, bus and metro services.	MT	P

LFRMS Policy 6 - Ensure that local flood risk is properly considered for new development proposals.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	++	The measures associated with this LFRMS policy will combine to ensure that new development incorporates robust flood risk management measures. For example, targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning. As well as reducing levels of flood risk at new development sites, the measures will contribute to reducing the overall flood risk throughout the City. The policy will also ensure that new development is directed to areas of lower flood risk, and that new development does not increase the risk facing other areas.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
2. Minimise the probability and consequences of climate change	++	The measures associated with this LFRMS policy will combine to ensure that new development incorporates robust flood risk management measures that will incorporate the potential consequences of climate change. For example, targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning. As well as reducing levels of flood risk at new development sites, the measures will contribute to reducing the overall flood risk throughout the City in the future. The policy will also ensure that new development is directed to areas of lower flood risk, and that new development does not increase the risk facing other areas.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	The measures associated with this LFRMS policy will combine to contribute to a reduction in the overall extent of flood risk throughout Manchester by ensuring that new development incorporates flood risk management measures. This is likely to have an indirect positive effect on water quality by reducing the chances of flooding events having negative effects (e.g. as a result of soil erosion or run-off washing chemical fertilisers into watercourses).	LT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	The measures associated with this LFRMS policy will combine to contribute to a reduction in the overall extent of flood risk throughout Manchester by ensuring that new development incorporates flood risk management measures. This is likely to have an indirect positive effect on biodiversity by reducing the likelihood of flood events having negative effects (both directly and indirectly e.g. as a result of water pollution caused by flooding). The measures are also likely to have an indirect positive effect on soil quality by reducing the likelihood of flooding events having negative effects on soils (e.g. as a result of soil erosion caused by rapid surface water run-off).	LT	P
5. Protect and where possible enhance the landscape and green infrastructure	+	Ensuring that flood risk management considerations are better integrated into planning should have a positive effect on ensuring that new development is sited appropriately. This policy could also lead to identification of opportunities to enhance landscape and use of green infrastructure as part of sustainable flood risk management.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
6. Protect and where possible enhance townscapes and cultural heritage	+	The measures associated with this LFRMS policy will combine to contribute to a reduction in the overall extent of flood risk throughout Manchester by ensuring that new development incorporates flood risk management measures. This is likely to have an indirect positive effect on the historic environment by reducing the likelihood of flood events having negative effects on both designated and undesignated heritage assets such as listed buildings.	MT	P
7. Ensure the efficient use of land	+	This policy ensures that inappropriate development is not consented in flood risk areas. For both greenfield and brownfield development the implementation and approval of SUDS will reduce the risk and consequences from surface water flooding.	MT	P
8. Protect and where possible enhance the health and well-being of the population	+	This policy could help to identify opportunities for promoting multi functional space, space for wildlife and local green space as part of the consideration of flood risk for new developments which could enhance the health and well-being of the population.	MT	P
9. Support the sustainable growth of the City Region	+	The measures associated with this LFRMS policy will combine to ensure that new development including that of community and economic assets incorporates robust flood risk management measures. For example, ambitious targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning. As well as reducing levels of flood risk at new development sites, the measures will contribute to reducing the overall flood risk throughout the City. Given the scale of new employment development proposed in the City, the effects of these measures are likely to be positive.	MT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
10. Minimise economic and social exclusion for all	+	The measures associated with this LFRMS policy will ensure social, economic and environmental aspirations are considered at all stages of development especially where a wider flood risk management function is incorporated into the development master plan. This will help to minimise economic and social exclusion for all by ensuring flood risk measures will be applied across the entire city. For example, targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning.	MT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	The measures associated with this LFRMS policy will combine to ensure that new development including that of community and economic assets incorporates robust flood risk management measures. For example, ambitious targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning. As well as reducing levels of flood risk at new development sites, the measures will contribute to reducing the overall flood risk throughout the City. Given the scale of new employment development proposed in the City, the effects of these measures are likely to be positive.	MT	P
12. Maintain and where possible enhance the transport network for all users	+	The measures associated with this LFRMS policy will combine to ensure that new development incorporates robust flood risk management measures. For example, targets will be set for permitted discharges from new and redeveloped sites and measures that aim to better integrate flood risk management considerations into planning. As well as reducing levels of flood risk at new development sites, the measures will contribute to reducing the overall flood risk throughout the City and therefore the likelihood of the transport network being disrupted by flooding. As such, a positive effect on this SEA objective is likely.	MT	P

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LFRMS Policy 7 - Ensure that the LLFA responds to appropriate consultation exercises on matters affecting Local Flood Risk Management.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flooding.	LT	P
2. Minimise the probability and consequences of climate change	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flooding and help the City adapt to the localised effects of climate change.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
5. Protect and where possible enhance the landscape and green infrastructure	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
6. Protect and where possible enhance townscapes and cultural heritage	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
7. Ensure the efficient use of land	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could ensure the efficient use of land (e.g. brownfield or areas of no flood risk) to minimise the probability and consequences of flooding from development.	LT	P
8. Protect and where possible enhance the health and well-being of the population	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes to enhance the health and well-being of the population as part of sustainable flood risk management measures.	LT	P
9. Support the sustainable growth of the City Region	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could support the sustainable growth of the City Region.	LT	P
10. Minimise economic and social exclusion for all	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flooding for more socially and economically vulnerable areas.	LT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flooding for existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
12. Maintain and where possible enhance the transport network for all users	+	Undertaking appropriate responses to consultation exercises could increase the likelihood of an improved level of understanding of flood risk and can help shape relevant policies, strategies and work programmes which could minimise the probability and consequences of flood risk on the transport infrastructure in the City.	LT	P

LFRMS Policy 8 - Ensure that the LLFA investigates and reports on flood incidents appropriately.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk. Detailed flood investigations will also provide a basis for seeking funding opportunities.	MT	P
2. Minimise the probability and consequences of climate change	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk as a result of climate change. Detailed flood investigations will also provide a basis for seeking funding opportunities to manage existing flood risk and provide future proof measures to adapt to the effects of climate change.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
5. Protect and where possible enhance the landscape and green infrastructure	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
6. Protect and where possible enhance townscapes and cultural heritage	0	The measures associated with this LFRMS policy are not considered likely to have an effect on this SEA objective.	LT	P
7. Ensure the efficient use of land	+	Investigating and reporting on flooding incidents will provide an improved evidence base which will provide a better basis to ensure efficient use of land by steering development away from flood risk areas.	LT	P
8. Protect and where possible enhance the health and well-being of the population	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk. The flood investigations should help to reduce the risk of health impacts of flooding (e.g. stress) thereby having a positive effect on the health and wellbeing of the population.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
9. Support the sustainable growth of the City Region	+	Investigating and reporting on flooding incidents will provide an improved evidence base which will provide a better basis to ensure efficient use of land by steering development away from flood risk areas.	LT	P
10. Minimise economic and social exclusion for all	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk. The flood investigations should help to minimise the economic and social exclusion by identify vulnerable areas that are at risk of flooding.	LT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk. The flood investigations will identify economic and social infrastructure assets, services and amenities at risk, plan mitigation measures so that economic investment and growth can be encouraged.	LT	P
12. Maintain and where possible enhance the transport network for all users	+	Investigating and reporting on flooding incidents will provide an improved evidence base on the flood risk across Manchester for all sources of flooding and will provide a better basis to manage flood risk and consequences of flood risk on the transport infrastructure in the City.	LT	P

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LFRMS Policy 9 - Aim to contribute towards the achievement of sustainable development in undertaking flood risk management functions.

SEA Objective	SEA Score	Justification	Duration	Permanence
1. Minimise the probability and consequences of flooding	+	Striving towards sustainable development will seek to minimise the probability and consequences of flooding through the provision of robust flood risk management measures for new development. Setting targets for permitted discharges from new and redeveloped sites and directing development to areas of lower flood risk will ensure that new development does not increase the risk facing other areas.	MT	P
2. Minimise the probability and consequences of climate change	+	Striving towards sustainable development will seek to minimise the probability and consequences of flooding through the provision of robust flood risk management measures that will incorporate the potential consequences of climate change. Setting targets for permitted discharges from new and redeveloped sites will contribute to the reduction in overall flood risk throughout the City in the future. The policy will also ensure that new development is directed to areas of lower flood risk, and that new development does not increase the risk facing other areas.	LT	P
3. Maintain and where possible enhance the quality of water resources, water bodies and their environment	+	Striving towards sustainable development will seek to identify opportunities to provide water quality improvements to water bodies and their environment as part of a wider flood risk management function.	LT	P
4. Maintain and where possible enhance biodiversity, geodiversity and soils	+	Promoting multi functional space, space for wildlife and local green space as part of the master planning process and wider flood risk management function could have a positive influence on the City's biodiversity.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
5. Protect and where possible enhance the landscape and green infrastructure	+	The provision of more conventional green infrastructure, such as the provision of trees at appropriate locations in streets, incorporation of SUDS (e.g. reed beds, green planters, "wet" balancing ponds) can be incorporated as flood risk management measures to achieve sustainable development.	LT	P
6. Protect and where possible enhance townscapes and cultural heritage	+	Promoting multi functional space, space for wildlife and local green space as part of the master planning process could help to retain and improve existing countryside and historic environment in both urban and rural areas.	LT	P
7. Ensure the efficient use of land	+	The policy will seek to ensure efficient use of land through improved drainage and the use of SUDS in order to steer development towards brownfield sites and away from flood risk areas. Promoting multi functional space, space for wildlife and local green space as part of the master planning process will ensure land is used in the most efficient and sustainable manner.	LT	P
8. Protect and where possible enhance the health and well-being of the population	+	Promoting multi functional space as part of sustainable development incorporating a flood risk management function could provide higher quality open space and recreational spaces. This could have a positive impact upon human health and wellbeing.	LT	P
9. Support the sustainable growth of the City Region	+	Promoting the concept of multifunctional spaces that will hold flood water, provide space for wildlife and local green space as part of the master planning process could lessen the threat of flooding that can have a negative impact upon the City's economy and ensure development as part of the growth of the City is undertaken in a sustainable manner.	LT	P

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SEA Objective	SEA Score	Justification	Duration	Permanence
10. Minimise economic and social exclusion for all	+	Striving towards sustainable development will seek to ensure social, economic and environmental aspirations are considered at all stages of development especially where a wider flood risk management function is incorporated into the development master plan. This will help to minimise economic and social exclusion for all by ensuring flood risk measures will be applied across all the city.	LT	P
11. Protect existing and future economic and social infrastructure assets, services and amenities and encourage economic investment and growth	+	Striving towards sustainable development will seek to minimise the probability and consequences of flooding through the provision of robust flood risk management measures that will incorporate the potential consequences of flood risk and the effects of climate change on the economic and social infrastructure assets, services and amenities in the City.	LT	P
12. Maintain and where possible enhance the transport network for all users	+	Striving towards sustainable development will seek to minimise the probability and consequences of flooding through the provision of robust flood risk management measures that will incorporate the potential consequences of flood risk and the effects of climate change on the transport infrastructure in the City.	LT	P