A Local Plan for

Lancaster District

2020 - 2031Plan period 2011 - 2031 **Green & Blue Infrastructure** Strategy Toolkit_ Appendix 5

[January 2022]





Appendix 5: Proposed GBI Toolkit Guidance Notes

Purpose of this Toolkit

proposal, and to demonstrate how thorough and careful consideration of such GBI interventions can deliver multiple functions and subsequently, multiple benefits (as set out in the Green and Blue Infrastructure Strategy). The list within this Toolkit is not exhauxtive, but demonstrates how GBI interventions can be implemented in a way that provides a wider range of benefits in relation to recreation, ecology, landscape, water management, active travel and the historic environment, and how they can also contribute towards climate change adaptation and mitigation (in accordance with policy DM43 of the Climate Emergency Review of the Development Management DPD). Each site is unique and so there is not a one size fits all approach, and so this toolkit sets out some examples of the GBI interventions that could be incorporated.

The Toolkit itself

Column One: Number

The number is used to demonstrate how a high level GBI requirement can be broken down into a number of suggestions as to how

Column Two: Suggested GI intervention

Orange boxes are high level GBI requirements

These are then broken down into suggestions of how to implement for added cobenefits (For example, you can plant trees that provide wind breaks and higher carbon sequestration to check more boxes)

Column Three: Planning Consideration

This column identifies whether the suggested GBI intervention, is already 'addressed through policy', is 'preferable', or desirable'. Those which are addressed through policy are effectively a requirement (i.e. top of the priority scale), moving down to 'preferable', and then 'desirable'. Ideally the greater the number of benefits that can be achieved (where

Column Four: Policy

Where the Suggested GBI Intervention is addressed through policy, the purpose of this column is to identify the specific policy/policies

Column Five: Key GBI Strategy Priority Areas

The GBI Strategy identified 6 key themes/uses of GBI, that encapsulate the multifuncational value of our green and blue spaces,

corridors and chains. These 6 key themes have been included within the toolkit to demonstrate how GBI interventions can deliver these multi-functional benefits on the ground, and how it is not necessarily one use for one GBI space/asset.

Column Six: Climate Change Priority Areas

The main purpose of the Climate Emergency Review of the Local Plan is to look at how planning policy can better adapt and mitigate the

impacts of climate change. One of the key areas of focus in green and blue infrasructure. This column therefore highlights how certain GBI interventions can contorbute towards climate change mitigation and/or adaptation and therefore

Column Seven: Other GBI Co-benefits

In addition to the six key themes/uses of GBI, the GBI Strategy looked into the wider socio-economic context and how GBI can generate subsequent wider benefits, such as those set out within this column, again emphasising the need and value of GBI as part of new development.

Column Eight: Your Planned Development

You can use these blue boxes to mark all of the GBI features you have chosen to incorporate as part of your development and how in more detail. This will then help to clearly demonstrate the multi-functional benefits that the GBI delivered as part of your scheme will provide. Additional GBI interventions can be added to the list (the list provided in this toolkit is

			-						Climate Ch	ange Priority	1								
		1	Key GBI Strategy Priority Areas						Climate Change Priority Areas Other GBI Co-benefits							Your planned development			
			Recreation																
	Planning		and Accessible	Ecology and			Water		Climate change		Economic Land & prosperity & property	Labour		Products from the	Health &	Quality of	Has GI intervention		
Number Suggested GBI intervention	_		Green Space		Active Travel	Landscape			_	mitigation	investment values	productivity			well-being		been used?	Comment on how it was used	
	Required																		
1 Increase tree cover on site	through planning policy	DM45	×	_	×		_	×		×		<u> </u>	×	×		_			
	p = 0p = 17	-	^	,	Î		-	-		,									
Select a mixture of native																			
species (to provide food and																			
1.1 habitat for wildlife)	Preferable			×		×			×										
Select species to improve air 1.2 quality	Preferable					×			×										
Select species to provide																			
shade (e.g. that will have large																			
canopies when mature) and plant in areas where people																			
1.3 walk and gather	Preferable		×		×	×			×						×				
Select broadleaf species and plant to provide shade to	Required																		
buildings (e.g. on south facing																			
1.4 facades)	planning policy	DM30							×						×				
Select species with large 1.5 canopies to capture rainwater	Desirable																		
Select species (e.g. conifers)	Desirable						^		^										
and plants to provide wind	Desimable																		
1.6 shelter Select species and plant for	Desirable				×				×							×			
aesthetic quality / image and																			
1.7 to provide visual screening	Preferable	See				×					×	<	×			×			
		sustainable																	
Select species to provide fruit		homes																	
1.8 and nuts 1.9 Planted in streets	Preferable Preferable	checklist					×		×		~			×		×			
Retain existing mature trees							-		_ ^	-									
1.1 on site	Preferable			×			×		×	×	>	<				×			
Planted along streams, rivers 1.11 and on floodplains	Preferable						×		×										
Select and manage species to																			
provide carbon sequestration 1.12 and storage	Preferable																		
	Required									×									
Plant trees to stabilise slopes		DAGG																	
1.13 and soils vulnerable to erosion Plant trees as part of a sound		DIVIZ9		×		×			×										
1.14 barrier	Desirable										>	<				×			
Manage trees on site as a 1.15 timber and/or fuel resource	Desirable																		
1.13 tilliber allu/or luei resource	Required									×	×			×					
	through	Case-by-case																	
2 Install green roofs	planning policy Required	see DM30	×	×		×	×		×	×	×	×		×	×	×			
	through	Case-by-case																	
2.1 Designed to capture rainwater		see DM30					×		×										
Design green roofs to increase																			
biodiversity (e.g. a using a	Required																		
variety of substrates, differing depths, and selecting species																			
2.2 appropriately)	planning policy	DM30		×					×										
Design green roofs to allow 2.3 access by people	Preferable																		
2.4 Grow food crops	Preferable		×						×			×		×	×				
		1							^			^		^					

1	•	•										•						
Install on buildings which are																		
overlooked for aesthetic																		
2.5 purposes	Desirable																	
	Desirable										×	×				×		
Install green roofs to improve																		
energy efficiency of the																		
2.6 building	Preferable									×	×	×				×		
	Required										,,							
Install groom roofs to improve																		
Install green roofs to improve																		
2.7 water management	planning policy	DM30					×								×			
	Required																	
Install green roofs to improve	1																	
=		DN420																
2.8 air quality	planning policy	טועוט							×						×			
	Required																	
	through																	
3 Install green walls	planning policy	DM30																
	planning policy	DIVISO		×			×		×	×	×	×		×	×	×		
Plant to provide shade to																		
buildings (e.g. on south facing																		
facades); reducing direct solar	Required																	
gain in summer, use species to																		
3.1 allow for solar gain in winter		DM30							×	×					×			
Plant to increase biodiversity	Required																	
(e.g. species to provide food	through																	
3.2 and habitat)	planning policy	DM30																
		514130		×					×							×		
3.3 Grow food crops	Preferable	<u> </u>							×					×		×		
Plant to improve aesthetic																		
3.4 quality or image	Desirable										V	×				~		
11	Required										^					X		
1																		
Install green walls to improve	_																	
3.5 water management	planning policy	DM30					×								×			
	Required																	
Install green walls to improve																		
3.6 air quality	planning policy	DM30							×						×			
General vegetation-related																		
4 interventions			×	×		×	×		_ ×	×	×	×	:	×	×	×		
	Required																	
	through																	
	•																	
4.1 Increase green cover on site	planning policy	DM30, DM43		×		×	×		×	×						×		
Design green infrastructure on																		
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site to provide a variety of micro-climates for users (e.g. access to sun, shade, wind shelter) Plant vegetation to stabilise slopes and soils vulnerable to 4.3 erosion Safeguard wildlife habitats on site, 4.6 including ponds Select vegetation to provide food for wildlife e.g. nectar rich plants Plant a diverse mixture of vegetation, using native 4.8 species 4.9 Install bird and bat boxes Minimise use of mown lawns 4.1 on site Avoid development in areas of 4.11 high carbon storage Design the green infrastructure to improve the image of the area, taking into 4.12 account landscape character Provide public access to the on site green infrastructure, including any linear features 4.13 such as rivers and canals Provide benches on-site, in a	Preferable Required through planning policy Required through planning policy Required through planning policy Preferable Desirable Required through planning policy Desirable Required through planning policy Required through planning policy Required through planning policy	SP8, DM43, DM44 DM43 DM29 DM43, DM46	×	× × × × × ×	×	×	×	×	× × × × × ×	×		×	×		×	× ×		
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1	•																	
	Required																	
Provide recreation facilities on	_																	
	planning policy	DM27	×								×				×			
Safeguard existing green infrastructure and landforms																		
that act as sound and visual																		
	Desirable				~		×				×					~		
Create new green							~											
infrastructure features as part																		
4.17 of sound and visual barriers	Desirable				×		×				×					×		
	Required																	
No development on best and																		
4.18 most versatile agricultural land		DM44			×							×		×	×	×		
	Required																	
	through	DN442 DN427																
Create food growing spaces on	planning policy	DIVI43, DIVIZ7			_									×	×	×		
	through																	
	planning policy	DM29. DM27												~	~	~		
Use species that provide food,																		
4.21 including fruit and nuts	Preferable			×				×						×	×	×		
Compost household and																		
	Preferable								×					×				
Involve the local community in																		
the design, construction and	D																	
4.23 management of the site All windows in office	Desirable															×		
developments to have a view																		
	Desirable																	
In office developments,										×		×			×	×		
provision of accessible																		
outdoor green space for office																		
	Desirable		×							×		×			×	×		
5 Water-related interventions			×	×	×	×		×			×		×		×	×		
	Required																	
	through	D1422																
5.1 and coastal flood zones Use river and coastal flood	planning policy	DIVI33				×		×			×							
zones as multifunctional green																		
	Required																	
	through																	
	planning policy							×							×	×		
	plailing policy	DM43	×	$ \hspace{.05cm} \times $	×	×												
	Required	DM43	×	×	×	×												
	Required through		×	×	×	×												
5.3 De-culvert water courses	Required		×	×	×	×												
5.3 De-culvert water courses Re-create natural floodplain	Required through planning policy		×	×	×	× ×												
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation	Required through planning policy Preferable		×	× ×	*	× ×										×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green	Required through planning policy Preferable Required		×	×	×	× ×										×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to	Required through planning policy Preferable Required through	DM33	×	×	×	× ×										×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to	Required through planning policy Preferable Required	DM33	×	× ×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as	Required through planning policy Preferable Required through	DM33	×	× ×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green	Required through planning policy Preferable Required through	DM33	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no	Required through planning policy Preferable Required through planning policy	DM33	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-	Required through planning policy Preferable Required through planning policy Required	DM33	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff postdevelopment and water	Required through planning policy Preferable Required through planning policy Required through	DM33 DM33 DM29 and	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff postdevelopment and water 5.6 quality is improved	Required through planning policy Preferable Required through planning policy Required	DM33 DM33 DM29 and	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff postdevelopment and water 5.6 quality is improved Use permeable surfacing within the design of any green	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × ×		×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × ×		×								× ×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post- development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × × × ×		× ×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and	Required through planning policy Preferable Required through planning policy Required through planning policy	DM33 DM33 DM29 and	×	×	×	× × × ×		× ×								×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post- development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× ×								× ×		
5.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in urban cooling	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × ×		× × ×							×	× ×		
S.3 De-culvert water courses Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in urban cooling Irrigate green infrastructure on	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× × ×							×	× ×		
Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in 5.9 urban cooling Irrigate green infrastructure on site, preferably from a	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× × ×							×	× ×		
Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post-development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in 5.9 urban cooling Irrigate green infrastructure on site, preferably from a sustainable source (e.g.	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× × ×							×	× ×		
Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post- development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in 5.9 urban cooling Irrigate green infrastructure on site, preferably from a sustainable source (e.g. greywater or harvested	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× × ×							×	× ×		
Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post- development and water 5.6 quality is improved Use permeable surfacing within the design of any green infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in 5.9 urban cooling Irrigate green infrastructure on site, preferably from a sustainable source (e.g. greywater or harvested 5.1 rainwater)	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × × ×		× × ×							×	× ×		
Re-create natural floodplain 5.4 vegetation Create or enhance green infrastructure upstream to 5.5 store flood waters Use Sustainable Urban Drainage Systems (SUDS) as part of the on-site green infrastructure so there is no increase in runoff post- development and water 5.6 quality is improved Use permeable surfacing within the design of any green 5.7 infrastructure areas Where soils have a high water infiltration rate, keep surfaces 5.8 unsealed Increase of blue cover and features on site for its role in 5.9 urban cooling Irrigate green infrastructure on site, preferably from a sustainable source (e.g. greywater or harvested	Required through planning policy Preferable Required through planning policy Required through planning policy Preferable Preferable Preferable	DM33 DM33 DM29 and	×	×	×	× × × ×		× × ×							×	× ×		

Use green infrastructure on	Required															
site to connect up nearby	through															
6.1 habitats off site	_	DM42														
	planning policy	DIVI43		×		×			×						×	
Make linear features such as																
canals, rivers, railway lines,	Required															
and road verges friendly to	through															
6.2 wildlife	planning policy	DM43		$ \hspace{.05cm} $		×			×						×	
Create new wildlife friendly	Required															
linear features (e.g.	through															
6.3 hedgerows)	planning policy	DM43							Ų						×	
old heagerows,	Required	5111-15		^					×							
Cofocus and existing violate of	through															
Safeguard existing rights of	_															
6.4 way on the site	planning policy	DM61	×		×									×	×	
Connect public access routes																
in on-site green infrastructure																
to existing access routes in the																
rights of way and active travel																
6.5 networks)	planning policy	DM43 DM61														
Provide sign-posting to	praining policy	J.11.73, DIVIOI	×		×				×	×				×	×	
connect up green	<u>_</u>															
6.6 infrastructure routes	Desirable		×	×	×					×			×	×	×	
Peatlands, Wetlands and																
7 Woodland			×	×		×	×	×	×	×		×	×	×	×	
Protect and improve	Required															
peatlands, wetlands and	through															
7.1 woodlands for biodiversity	planning policy	DM43		Ų.												
Protect and improve	Paramon B boundy															
peatlands, wetlands and	Required															
woodlands for climate	through															
7.2 adaptation and mitigation	planning policy	DM43							×	×						
Protect and improve																
peatlands, wetlands and	Required															
woodlands for water	through															
7.3 management	planning policy	DM43					×				×				×	
8 Other GBI interventions	, ,,		×	×	~	~	,	~	×	~	Ÿ	~	×	>	×	
Provide sufficient landscaping			^	^	^	^	^	^				^	^			
areas/buffer zones and																
appropriate levels of open																
space provision to mitigate																
development impacts on	Required															
adjoining sensitive uses and	through															
8.1 the open countryside	planning policy	DM29	×		×	×		×			×	×	×		×	
Implementation of a GBI	Required															
Management and	through															
8.2 Maintenance Plan	planning policy	DM43														
Provide contributions towards			×	×	×	×	×	×	×		×	×			×	
open space, sports and	Required															
recreational facility provision	through															
8.3 in areas of deficiency	planning policy	DM27	×		×				×		×	×		×	×	
	Required	_														
Positively incorporate existing	through															
8.4 trees and hedgerows	planning policy	DM45		\ \ \	V				~						×	
Other GI included that are not				- ^	^					^					1	
9 listed above																
9.1		1														
9.2	ļ															
9.3																