



Lancaster City Council Level 1 SFRA Local Plan Sites Assessment

28 September 2021

Proposed Use				
Residential				
Employment				
Mixed Use				
Commercial				
Residential / Education				
Employment / Education				
Recreation & Environmental Improvements				
TOTAL				

Key

Flood Zone 3b	
Flood Zone 3a	
Flood Zone 2	
Flood Zone 1 + Surface Water	
Flood Zone 1	

The colour coding shows the highest risk element of the flood zone that is present on site and is not in itself an indication of whether the site should or shouldn't be developed for flooding reason

Site Reference	Site Name
DOS5 (also H2)	Middleton Towers, Carr Lane

H1.1	Land at New Quay Road, Lancaster
H1.3	Former Police Station, Heysham Road
H1.4	Land West of Middleton Road, Heysham
H2.1	Royal Oak Meadow, Hornby
H2.2	Lancaster Road, Overton
H2.3	Yenham Lane, Overton
112.3	Termani Lane, Overton
H2.5	Land north of Old Hall Farm, Over Kellet
H2.6	Halton Mills, Halton
H2.8	Land between Low Road and Forge Lane, Halton
11210	Land to the rear of Pointer Grove and adjacent to High Road,
H2.9	Halton
H2.10 H3.1 (also H1)	Land South of Marsh Lane, Cockerham Former Ridge Lea Hospital, Lancaster
H3.2 (also H1)	Land at Stone Row Head Farm, East Lancaster
(indication)	
H3.3 (also H1 & EC6)	Land at University of Cumbria Campus, East Lancaster
H4 (also H1)	Land at Grab Lane, East Lancaster
H4 (also H1)	Land at Grab Lane, East Lancaster

H5 (also H1)	Land at Leisure Park/Auction Mart, Wyresdale Road
H6 (also H1)	Royal Albert Fields, Ashton Road
0044 (-1 114)	Long deficiely One way On the One of calls
SG11 (also H1)	Lundsfield Quarry, South Carnforth
EC6 (also H3.3 & H1)	University of Cumbria Campus, Lancaster

Summary Table

				FI	
		Flood	Flood Zone 1		
Number of Sites	Area (ha)	Area (ha)	No. 100%	Area (ha)	
19	92.17	81.90	9	2.33	
6	213.59	138.75	0	10.23	
8	316.45	294.56	1	2.91	
1	1.65	0.49	0	0.63	
1	5.67	5.67	1	0.00	
1	10.97	10.69	0	0.00	
1	2.43	0.15	0	0.50	
37	642.94	532.22	11	16.61	

Main Table

				FI
		Floo	d Zone 1	Flood Zo
Proposed Use	Area (ha)	Area (ha)	%	Area (ha)
Residential	19.559	13.926	71.199	0.887

Residential	0.373	0.000	0.000	0.000
Residential	0.060	0.060	100.000	0.000
Residential	2.175	2.175	100.000	0.000
Residential	1.126	1.126	100.000	0.000
Residential	1.644	1.578	96.014	0.055
Residential	0.702	0.702	100.000	0.000
Residential	3.506	3.493	99.606	0.000
Residential	2.858	1.755	61.423	1.085
Residential	5.243	5.085	96.989	0.003
Residential	4.336	4.221	97.346	
Residential Residential	1.983 3.240	1.983 3.240		
Residential	1.618	1.618		
Residential	1.537	1.537	100.000	0.000
Residential	8.777	8.001	91.167	0.173

Residential	13.936	11.936	85.651	0.132
Residential	5.809	5.809	100.000	0.000
residential	3.009	3.009	100.000	0.000
Residential	13.691	13.651	99.709	0.000
Residential/Education	5.672	5.672	100.000	0.000

uvial Flood Z						
ne 2	ne 2 Flood Zone 3a Flood Zone 3b					
No.	Area (ha)	No.	Area (ha)	No.	Area (ha)	
6	5.32	7	2.63	9	6.94	
4	61.30	4	3.31	6	22.49	
5	10.13	1	8.84	4	17.45	
1	0.53	1	0.00	0	0.77	
0	0.00	0	0.00	0	0.12	
0	0.00	0	0.28	1	2.05	
1	1.62	1	0.15	1	0.14	
17	78.90	14	15.22	21	49.94	

uvial Flood Zor					
ne 2	Flood Zone 3a		Flood Zone 3b		Low Risk (0.1%
%	Area (ha)	%	Area (ha)	%	Area (ha)
4.536	4.431	22.655	0.315	1.611	1.512

0.000	0.357	95.670	0.016	4.330	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.021
0.000	0.000	0.000	0.000	0.000	0.027
3.321	0.011	0.665	0.000	0.000	0.000
0.000		0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.394	0.238
07.074	0.047	0.000	0.000	0.004	0.547
37.974	0.017	0.602	0.000	0.001	0.517
0.050	0.050	4 045	0.400	4.044	0.005
0.053		1.015	0.102	1.944	0.365
0.000	0.000				0.316 0.000
0.000		0.000		0.000	0.062
0.000		0.000		0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
1.971	0.297	3.384	0.305	3.477	1.085

0.946	0.149	1.070	1.719	12.333	1.800
0.000	0.000	0.000	0.000	0.000	0.025
0.000	0.000 0.000	0.000	0.040 0.000	0.291 0.000	0.969 0.116

Risk of Flooding from Surface Water				
% AEP outline)	Medium Risk (*	1% AEP outline)	High Risk (3 outli	
No.	Area (ha) No.		Area (ha)	No.
14	2.27	9	1.09	7
6	6.65	5	3.03	3
8	6.40	8	4.30	7
1	0.34	1	0.22	1
1	0.03	1	0.00	0
1	1.31	1	0.74	1
1	0.06	1	0.04	1
32	17.06	26	9.42	20

Ri	Risk of Flooding from Surface Water				
6 AEP outline)	Medium Risk	(1% AEP outline)		3.33% AEP ine)	
%	Area (ha)	%	Area (ha)	%	Significant Surface Water Risk?
7.730	0.479	2.447	0.167	0.855	No

0.000	0.000	0.000	0.000	0.000	N.
0.000	0.000	0.000	0.000	0.000	
0.008	0.000	0.000	0.000	0.000	No
0.986	0.000	0.000	0.000	0.000	No
2.421	0.006	0.572	0.000	0.000	No
0.000	0.000	0.000	0.000	0.000	No
0.000	0.000	0.000	0.000	0.000	No
6.776	0.036	1.023	0.021	0.600	No
18.079	0.212	7.408	0.079	2.764	No
10.010	0.212	7.100	0.010	2.701	110
6.959	0.080	1.528	0.000	0.000	No
7.298 0.005	0.156 0.000	3.595 0.000	0.097 0.000	2.234 0.000	
1.926	0.000	0.000	0.000	0.000	No
0.000	0.000	0.000	0.000	0.000	No
0.000	0.000	0.000	0.000	0.000	No
12.362	0.145	1.653	0.061	0.696	No

12.917	0.795	5.705	0.500	3.586	No
0.428	0.000	0.000	0.000	0.000	No
0.420	0.000	0.000	0.000	0.000	140
7.079	0.359	2.619	0.167	1.221	No
2.038		0.606			

Risk from Climate Change?	Cumulative Impact Assessment ranking	Flood Risk Vulnerability Classification (NPPF)
High risk based on modelling		
Within Lune Tidal 0.5% AEP +CC70 and +CC95 outlines	High	More vulnerable

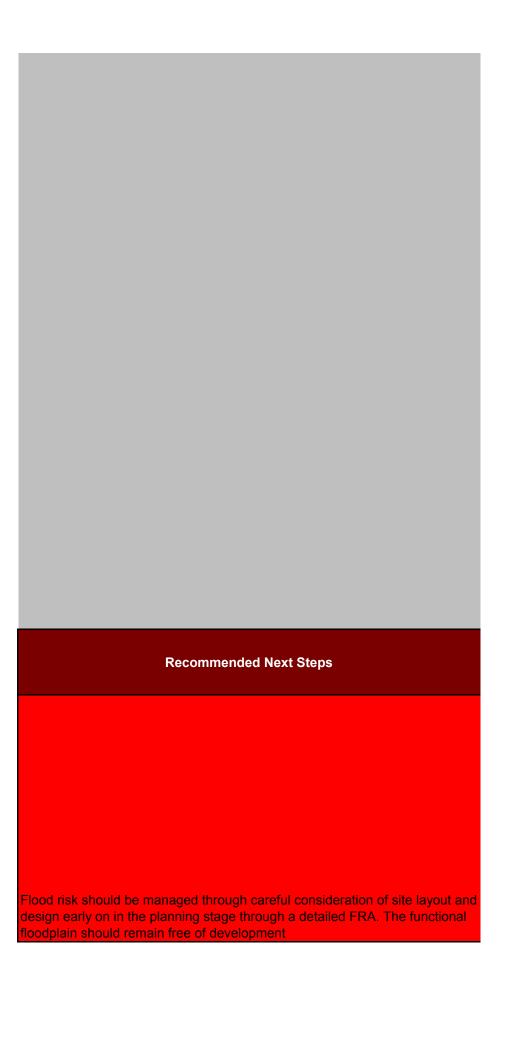
t Pata state to a seed and a seed at 18 and		
High risk based on modelling		
Within Lune Tidal 0.5% AEP		
+CC70 and +CC95 outlines		
Within Lune SFRM 2011 5%		
+CC45, CC60, CC75 and 1%	1.15-1-	
+CC45, CC60 and CC75 outlines	High	More vulnerable
Manual accompanies to 194 c	112-4	NA
Very low probability	High	More vulnerable
V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L Pada	
Very low probability	High	More vulnerable
V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Very low probability	High	More vulnerable
High risk based on modelling		
Within Lune Tidal 0.5% AEP		
+CC70 and +CC95 outlines	High	More vulnerable
Very low probability	High	More vulnerable
Medium probability as at existing		
risk	Medium	More vulnerable
High risk based on modelling		
Within Lune SFRM 2011 5%		
+CC45, CC60, CC75 and 1%		
+CC45, CC60 and CC75 outlines	High	More vulnerable
High risk based on modelling		
Within Lune SFRM 2011 5%		
+CC45, CC60, CC75 and 1%		
+CC45, CC60 and CC75 outlines	High	More vulnerable
Medium probability as at existing		
risk	High	More vulnerable
Very low probability	High	More vulnerable
Very low probability	High	More vulnerable
Very low probability	High	More vulnerable
Very low probability	High	More vulnerable
High risk based on modelling		
Within Burrow Beck 2019 5% AEP		
+CC45, CC60, CC75		
and 1% AEP +CC45, CC60, CC75		
outlines	High	More vulnerable

High risk based on modelling Within Burrow Beck 2019 5% AEP +CC45, CC60, CC75 and 1% AEP +CC45, CC60, CC75 outlines	High	More vulnerable
Very low probability	High	More vulnerable
High risk based on modelling Within Back Lane 2020 1% AEP +CC45, CC60 and CC75 outlines	High	More vulnerable
Very low probability	High	More vulnerable

Level 1 Strategic Recommendation (see Appendix C)	Development Considerations
S)	
Strategic Recommendation A	FRA required

Strategic Recommendation A	FRA required
N/A - site has planning permission	N/A - site has planning permission
N/A - site has planning permission	N/A - site has planning permission
N/A - site has planning permission	N/A - site has planning permission
Strategic Recommendation A	FRA required
Strategic Recommendation C	FRA not required
	N/A - site has planning permission
Turk Site has planning permission	1077 die nee planning permiedien
N/A - site has planning permission	N/A - site has planning permission
3 P 2 2 2 2	3 1 2 1 2 3 1 2 3 1 2 3 2 2 3 2 3 2 3 3 2 3 3 2 3 3 3 3
N/A - site has planning permission	N/A - site has planning permission
	N/A - site has planning permission
Strategic Recommendation B	FRA required
Strategic Recommendation B Strategic Recommendation B	FRA required FRA required
Strategic Recommendation B	FRA required
Strategic Recommendation A	FRA required

Strategic Recommendation A	FRA required
N/A - site has planning permission	N/Δ - site has planning permission
14/A - Site has planning permission	14/A - Site rias planning permission
Stratagia Basemmendation A	EDA required
Strategic Recommendation A	FRA required
Strategic Recommendation B	FRA required



Flood risk should be managed through careful consideration of site layout and
design early on in the planning stage through a detailed FRA. The functional floodplain should remain free of development
N/A - site has planning permission
N/A - site has planning permission
N/A - site has planning permission
Flood risk should be manageable through careful consideration of site layout
and design around the flood risk early on in the planning stage through a detailed FRA
Planning application should not require a FRA given very low risk
N/A - site has planning permission
N/A - site has planning permission
N/A - site has planning permission
N/A - site has planning permission Site can progress to FRA stage to assess surface water risk
Site can progress to FRA stage to assess surface water risk
Site can progress to FRA stage
Site can progress to FRA stage
Flood risk should be managed through careful consideration of site layout and
design early on in the planning stage through a detailed FRA. The functional
floodplain should remain free of development

Flood risk should be managed through careful consideration of site layout and design early on in the planning stage through a detailed FRA. The functional floodplain should remain free of development

N/A - site has planning permission

Flood risk should be managed through careful consideration of site layout and design early on in the planning stage through a detailed FRA. The functional floodplain should remain free of development

Site can progress to FRA stage to assess surface water risk

Local Authority Assessment

The site is allocated in the Local Plan (2020), the allocation is not being reviewed through the CELPR. The flood risk has increased since the 2017 SFRA and allocation and the site now includes Flood Zone 3b. Development witin FZ3b should be avioded and an Exception Test will be required with a planning application where development falls within the categories in Table 3: flood risk vulnerability and flood zone compatibility (PPG). A FRA will be required with a planning application. Development should be located sequentially across the site taking account of all sources and levels of flood risk. Mitigation, resilience and a full surface water strategy will be required.. The site has planning permission for development. As development would support redevelopment and completion of this site and subject to subject to appropriate mitigation to ensure that the development is safe and opportunities are taken to reduce flood risk, the development of this site is, on balance, likely to pass an Exception Test.

The site is allocated in the Local Plan (2020), the allocation is not being reviewed through the CELPR. The site has previously benefited from planning permission. The flood risk has increased since the 2017 SFRA and allocation, the site now includes Flood Zone 3b. It is however, located behind flood defences along the River Lune. Development witin FZ3b should be avioded and an Exception Test will be required with a planning application where development falls within the categories in Table 3: flood risk vulnerability and flood zone compatibility (PPG). A FRA will be required with a planning application. Development should be located sequentially across the site taking account of all sources and levels of flood risk. Mitigation, resilience and a full surface water strategy will be required. The site is adjacent to housing and an area designated for regeneration. Subject to appropriate mitigation to ensure that the development is safe and will not increase risk, the development, on balance a is likely to pass an Exception Test.

The site has an extant planning permission.

The site has planning permission.

The site has planning permission.

The site has planning permission and is under construction.

The site is at low risk and is allocated for development in the Local Plan (2020).

The site has planning permission.

Part of the site has planning permission and part of the site has a resolution to grant planning permission subject to a S106.

The site has planning permission and is under construction.

The site has planning permission and is under construction.

The site has planning permission.

Applications should be accompanied buy a FRA.

Applications should be accompanied buy a FRA.

Part of the site has planning permission. Applications for the remainder should be accompanied buy a FRA.

The site is allocated in the Local Plan (2020), the allocation is not being reviewed through the CELPR. The flood risk has increased since the 2017 SFRA and allocation, the site now includes Flood Zone 3b. Development witin FZ3b should be avioded and an Exception Test will be required with a planning application where development falls within the categories in Table 3: flood risk vulnerability and flood zone compatibility (PPG). Development should be located and designed to take account of all sources and levels of flood risk. Mitigation, resilience and a full surface water strategy will be required. The site is allocated for housing, subject to wider sustainability benefits, appropriate mitigation to ensure that the development is safe and measures to reduce flood risk, the development, on balance a is likely to pass an Exception Test.

The site is allocated in the Local Plan (2020), the allocation is not being reviewed through the CELPR. The flood risk has increased since the 2017 SFRA and allocation, the site now includes Flood Zone 3b. Development witin FZ3b should be avioded and an Exception Test will be required with a planning application where development falls within the categories in Table 3: flood risk vulnerability and flood zone compatibility (PPG). A FRA will be required with a planning application. Development should be located sequentially across the site taking account of all sources and levels of flood risk. Mitigation, resilience and a full surface water strategy will be required. The site is allocated for housing, subject to wider sustainability benefits, appropriate mitigation to ensure that the development is safe and measures to reduce flood risk, the development, on balance a is likely to pass a Exception Test.

The site has planning permission.

A small proportion of the site is at higher flood risk. The site is extensive and development can be located and designed sequentially around the areas at higher risk of flooding and full surface water drainage strategy should be included.

Applications should be accompanied buy a FRA.