

AECOM REF: ACM_040	THURROCK REF: 60459	NEIGHBOURHOOD: Grays Riverside
SITE NAME: Rippleside Metalworks, Thames Road, Grays		SITE AREA: 0.75 ha



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*Please note the nearest watercourse may be a Main River and may be culverted.
**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	5.17%
		Flood Zone 3a (1% AEP):	94.83%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 256.42m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	9.4%	1% AEP:	3.43%
		3.33%:	18.41%
0.1% AEP + 40% Climate Change:	14.3%	1% AEP + 40% Climate Change:	3.41%
		3.33% AEP + 40% Climate Change:	20.8%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

THESE MAPS ARE INTERACTIVE AND REQUIRE THE USE OF ADOBE ACROBAT TO BE ABLE TO CLICK ON THE INDIVIDUAL TABS TO LOAD THE LAYERS. PLEASE USE THE BUTTONS BELOW TO DISPLAY / HIDE DIFFERENT SOURCES OF FLOOD RISK TO THE SITE.

FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium and River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 4.387mAOD	FROM BREACH LOCATION: TIL001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_041	THURROCK REF: 60474	NEIGHBOURHOOD: East Tilbury
SITE NAME: Car Park, Coronation Road, East Tilbury		SITE AREA: 0.19 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	66.89%	Flood Zone 2 (0.1% AEP):	33.11%
		Flood Zone 3a (1% AEP):	0%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 385.64m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	0.03%	1% AEP:	0%
		3.33%:	0%
0.1% AEP + 40% Climate Change:	0%	1% AEP + 40% Climate Change:	0.02%
		3.33% AEP + 40% Climate Change:	0%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

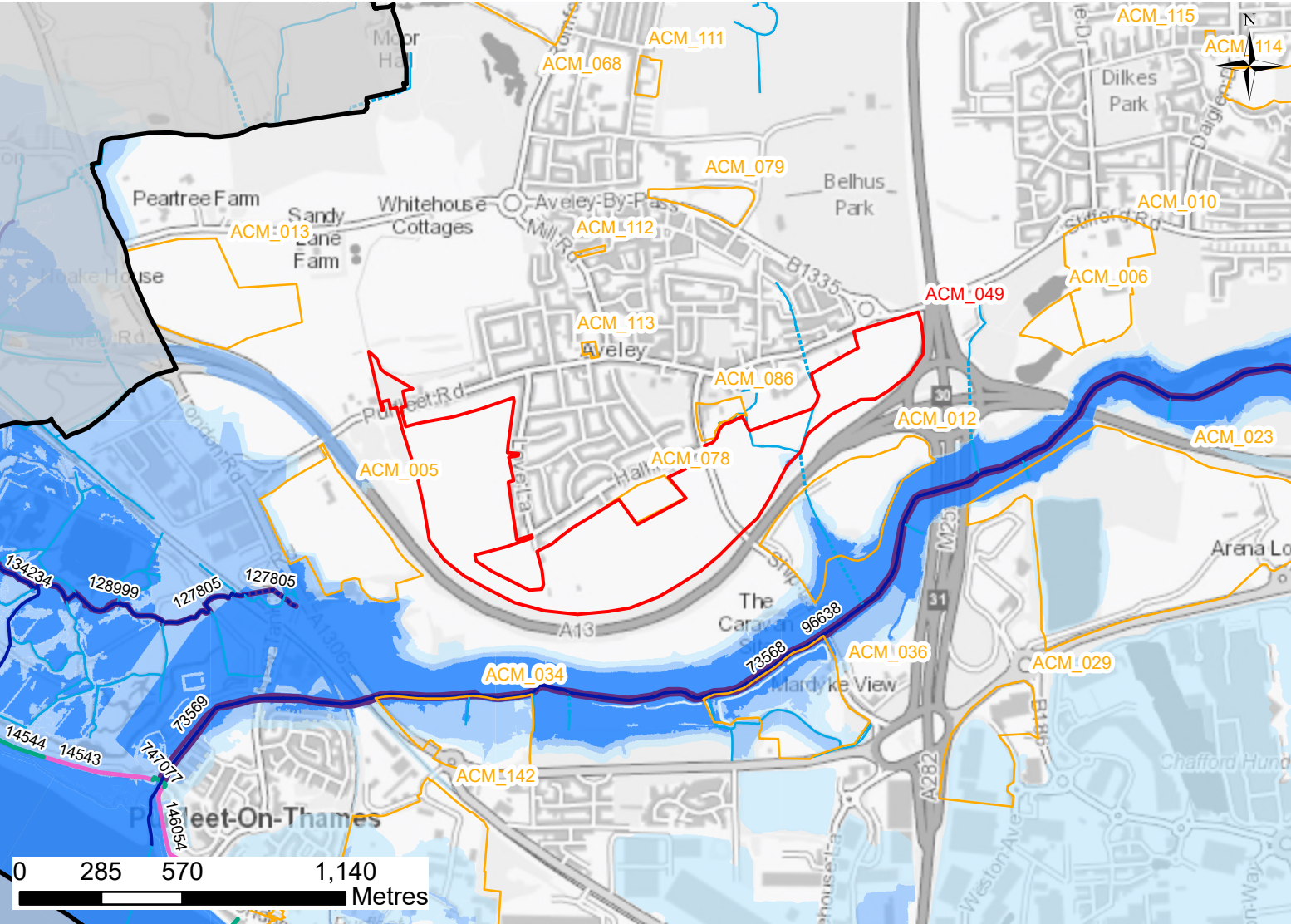
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.658mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_049	THURROCK REF: 60844	NEIGHBOURHOOD: Aveley and Uplands
SITE NAME: Land south of Aveley		SITE AREA: 57.09 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	99.54%	Flood Zone 2 (0.1% AEP):	0.35%
Flood Zone 3a (1% AEP):	0.03%	Flood Zone 3b (defined in SFRA report):	0.08%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 0.77%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 4:72, RM15 5:13			
CRITICAL DRAINAGE AREA: AoCD001			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 0.17%			
SURFACE WATER FLOODING			
0.1% AEP:	3.43%	1% AEP:	1.28%
3.33%:	1.6%		
0.1% AEP + 40% Climate Change:	3.77%	1% AEP + 40% Climate Change:	1.7%
3.33% AEP + 40% Climate Change:	2.35%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

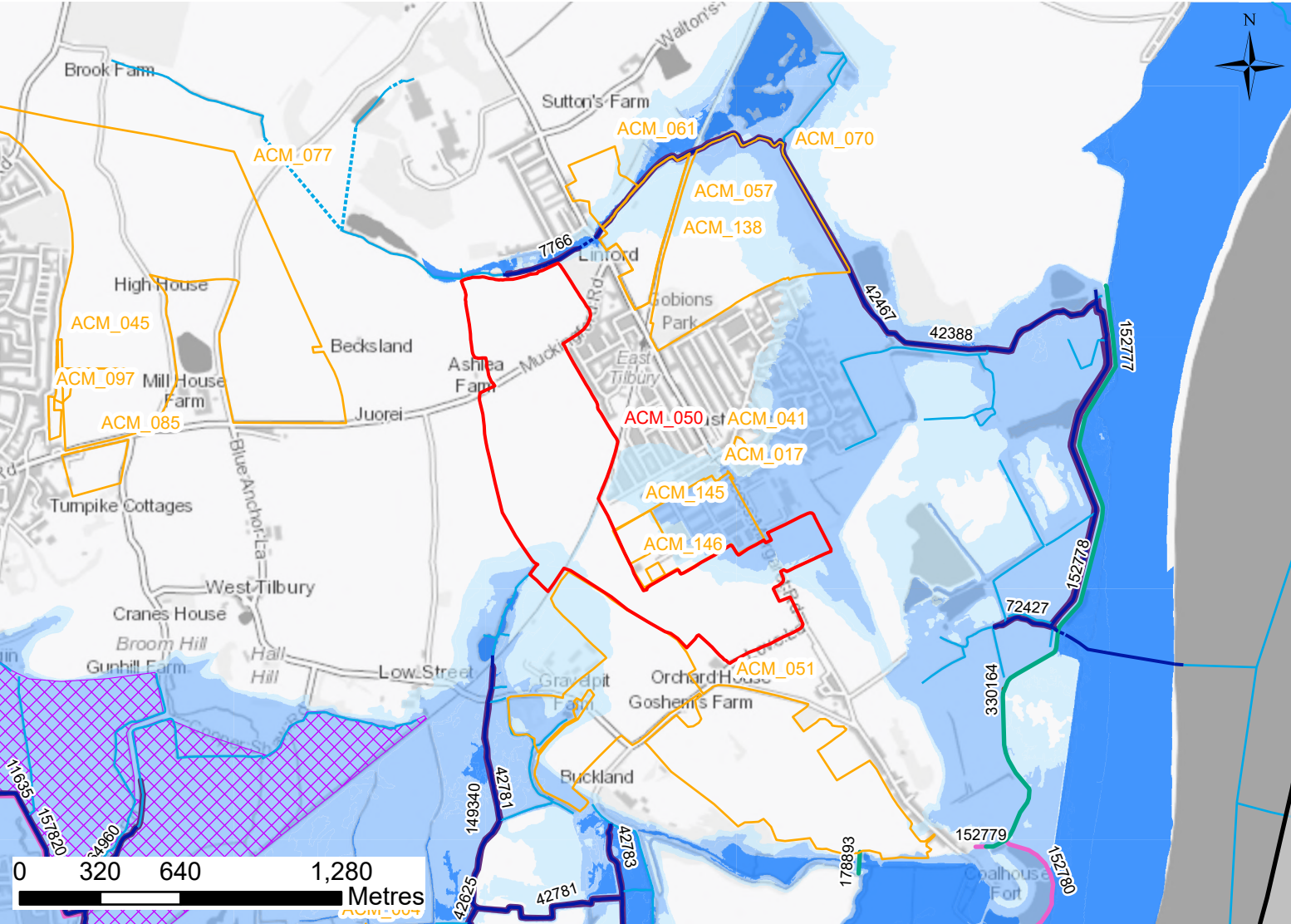
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group, Thames Group and Thanet Sand Formation	
SUPERFICIAL GEOLOGY: Alluvium and River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	0%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%

AECOM REF: ACM_050	THURROCK REF: 60847	NEIGHBOURHOOD: East Tilbury
SITE NAME: East Tilbury		SITE AREA: 76.4 ha



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VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	86.6%	Flood Zone 2 (0.1% AEP):	6.99%
		Flood Zone 3a (1% AEP):	6.41%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 44.05%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 2.35m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70, RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 41.38%			
SURFACE WATER FLOODING			
0.1% AEP:	0.27%	1% AEP:	3.89%
		3.33%:	3.2%
0.1% AEP + 40% Climate Change:	0.65%	1% AEP + 40% Climate Change:	2.15%
		3.33% AEP + 40% Climate Change:	5.02%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

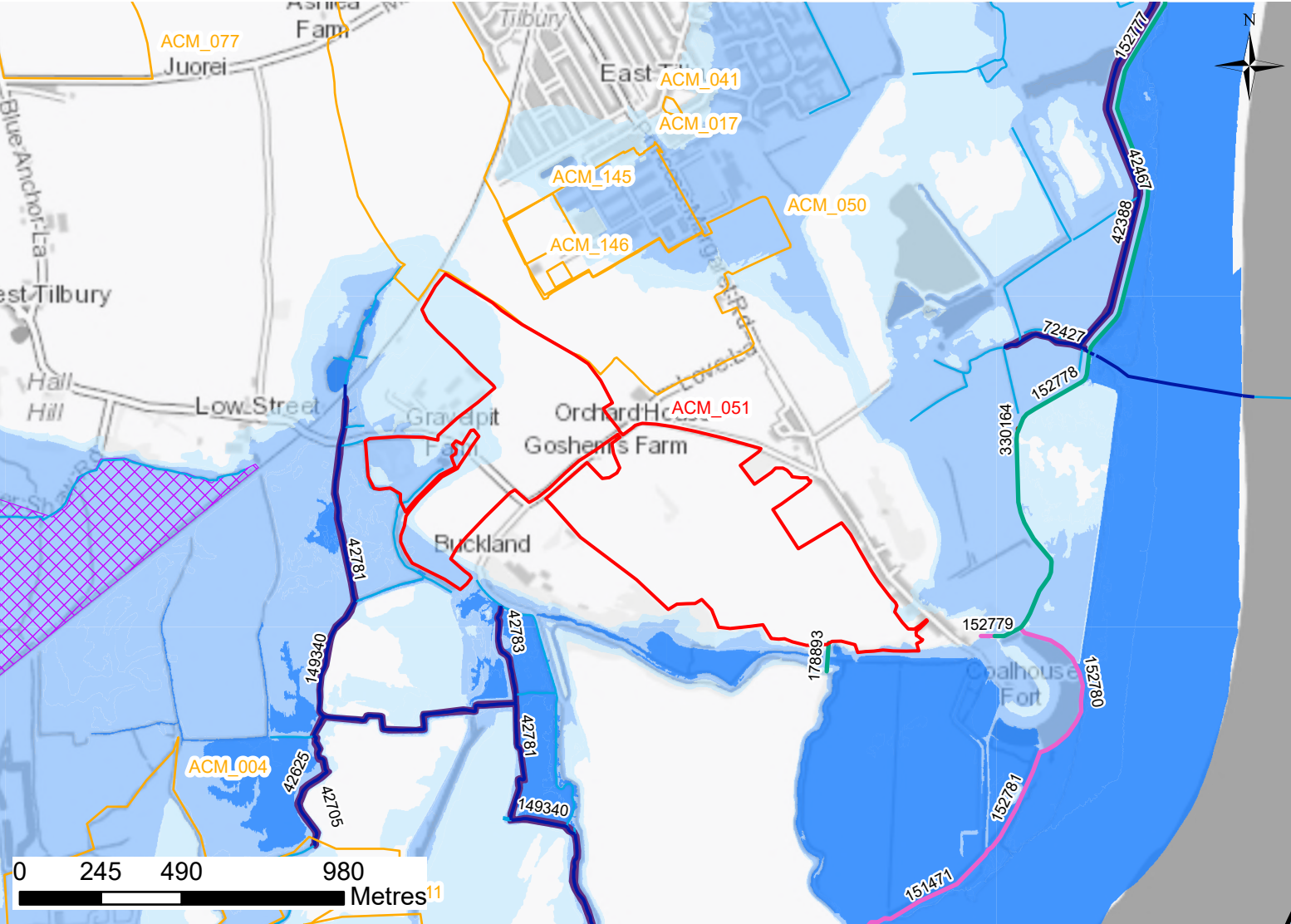
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
SUPERFICIAL GEOLOGY: Alluvium and River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.662mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_051	THURROCK REF: 60851	NEIGHBOURHOOD: East Tilbury
SITE NAME: East Tilbury 2		SITE AREA: 70.97 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	81.33%	Flood Zone 2 (0.1% AEP):	11.86%
Flood Zone 3a (1% AEP):	6.81%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 36.02%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury and the Essex coast at Coalhouse Fort and surrounding marshland			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 36%			
SURFACE WATER FLOODING			
0.1% AEP:	0.16%	1% AEP:	3.94%
3.33%:	4.41%		
0.1% AEP + 40% Climate Change:	0.92%	1% AEP + 40% Climate Change:	1.61%
3.33% AEP + 40% Climate Change:	6.77%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

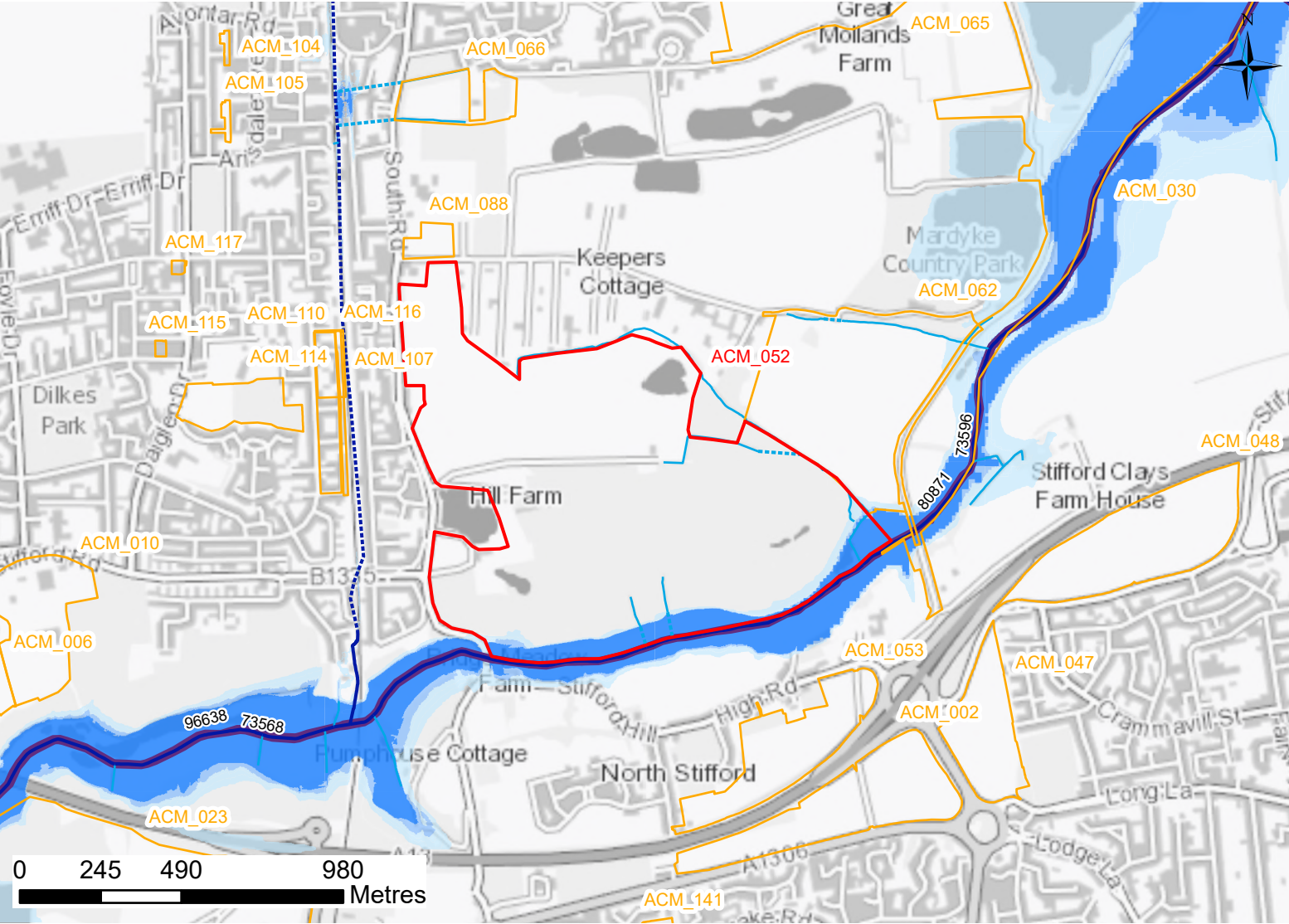
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation and White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium and River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.823mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 6.570mAOD	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	0%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%

AECOM REF: ACM_052	THURROCK REF: 60853	NEIGHBOURHOOD: Belhus
SITE NAME: Land at the Mardyke Valley Golf Club, South Road, South Ockendon		SITE AREA: 99.08 ha



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VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	91.13%	Flood Zone 2 (0.1% AEP):	2.12%
		Flood Zone 3a (1% AEP):	0.43%
		Flood Zone 3b (defined in SFRA report):	6.32%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 9.52%			
FLOOD WARNING AREA(S): The Mardyke from North Stifford to Purfleet-on-Thames			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline and 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 6:19, RM16 5:4			
CRITICAL DRAINAGE AREA: AoCD013			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 6.51%			
SURFACE WATER FLOODING			
0.1% AEP:	4.15%	1% AEP:	2.76%
		3.33%:	1.49%
0.1% AEP + 40% Climate Change:	4.13%	1% AEP + 40% Climate Change:	2.7%
		3.33% AEP + 40% Climate Change:	3.13%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

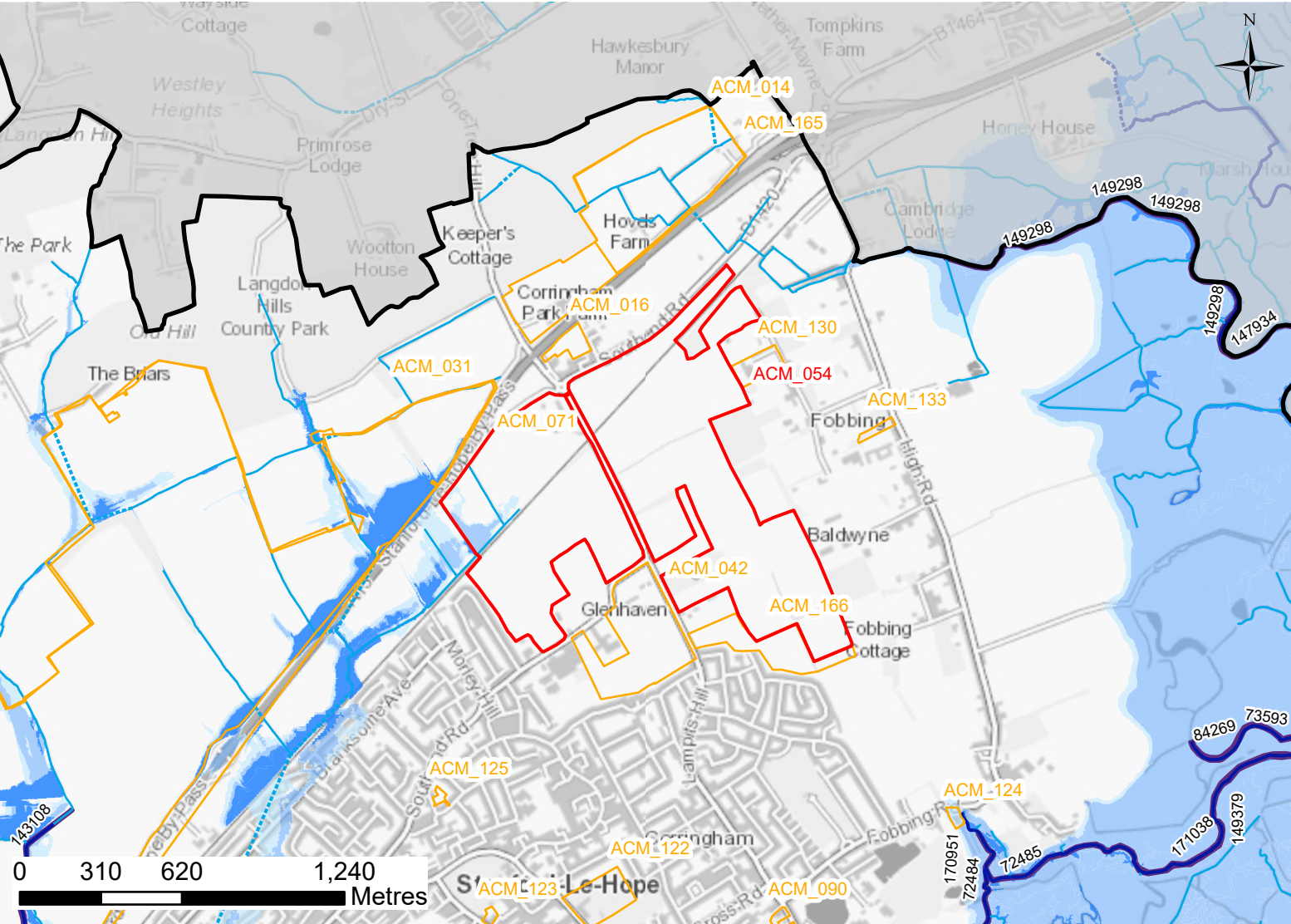
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
4.96%	6.35%

AECOM REF: ACM_054	THURROCK REF: 60856	NEIGHBOURHOOD: Corringham and Fobbing
SITE NAME: Land northeast of Corringham		SITE AREA: 101.77 ha



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*Please note the nearest watercourse may be a Main River and may be culverted.
**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	98.02%	Flood Zone 2 (0.1% AEP):	0.91%
Flood Zone 3a (1% AEP):	1.07%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 1.98%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 9:28, SS17 8:51			
CRITICAL DRAINAGE AREA: AoCD010d			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 1.07%			
SURFACE WATER FLOODING			
0.1% AEP:	8.21%	1% AEP:	3.76%
3.33%:	11.96%		
0.1% AEP + 40% Climate Change:	11.38%	1% AEP + 40% Climate Change:	3.87%
3.33% AEP + 40% Climate Change:	14.39%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

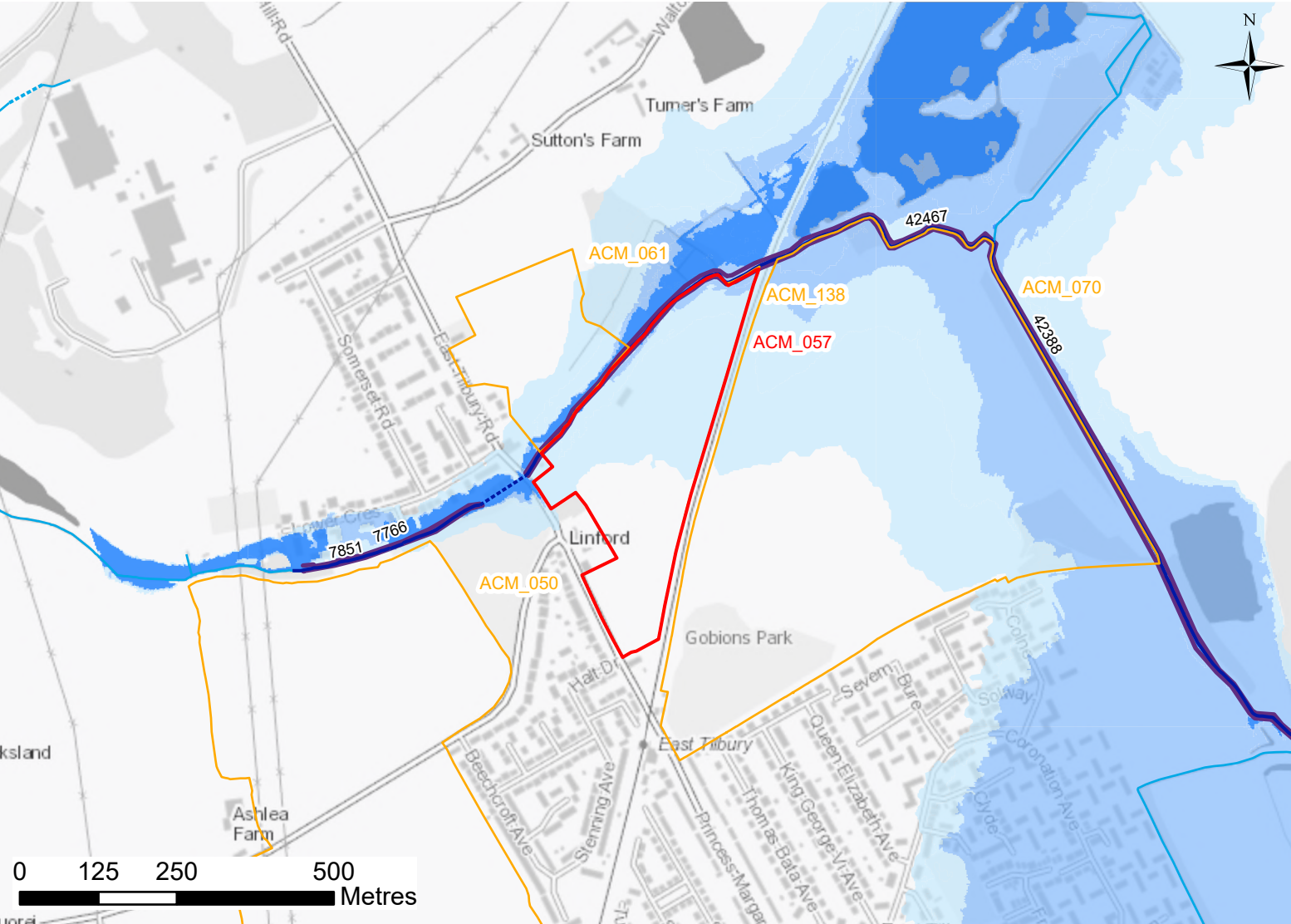
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	0%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%

AECOM REF: ACM_057	THURROCK REF: 60882	NEIGHBOURHOOD: East Tilbury
SITE NAME: Land Adjacent And To The Rear Of The George And Dragon East Tilbury Road Linford Essex		SITE AREA: 9.53 ha



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**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	39.11%	Flood Zone 2 (0.1% AEP):	56.01%
		Flood Zone 3a (1% AEP):	3.82%
		Flood Zone 3b (defined in SFRA report):	1.06%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 95.5%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 0.02m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70, RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 89.49%			
SURFACE WATER FLOODING			
0.1% AEP:	0.09%	1% AEP:	11.71%
		3.33%:	6.87%
0.1% AEP + 40% Climate Change:	0.3%	1% AEP + 40% Climate Change:	1.62%
		3.33% AEP + 40% Climate Change:	17%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

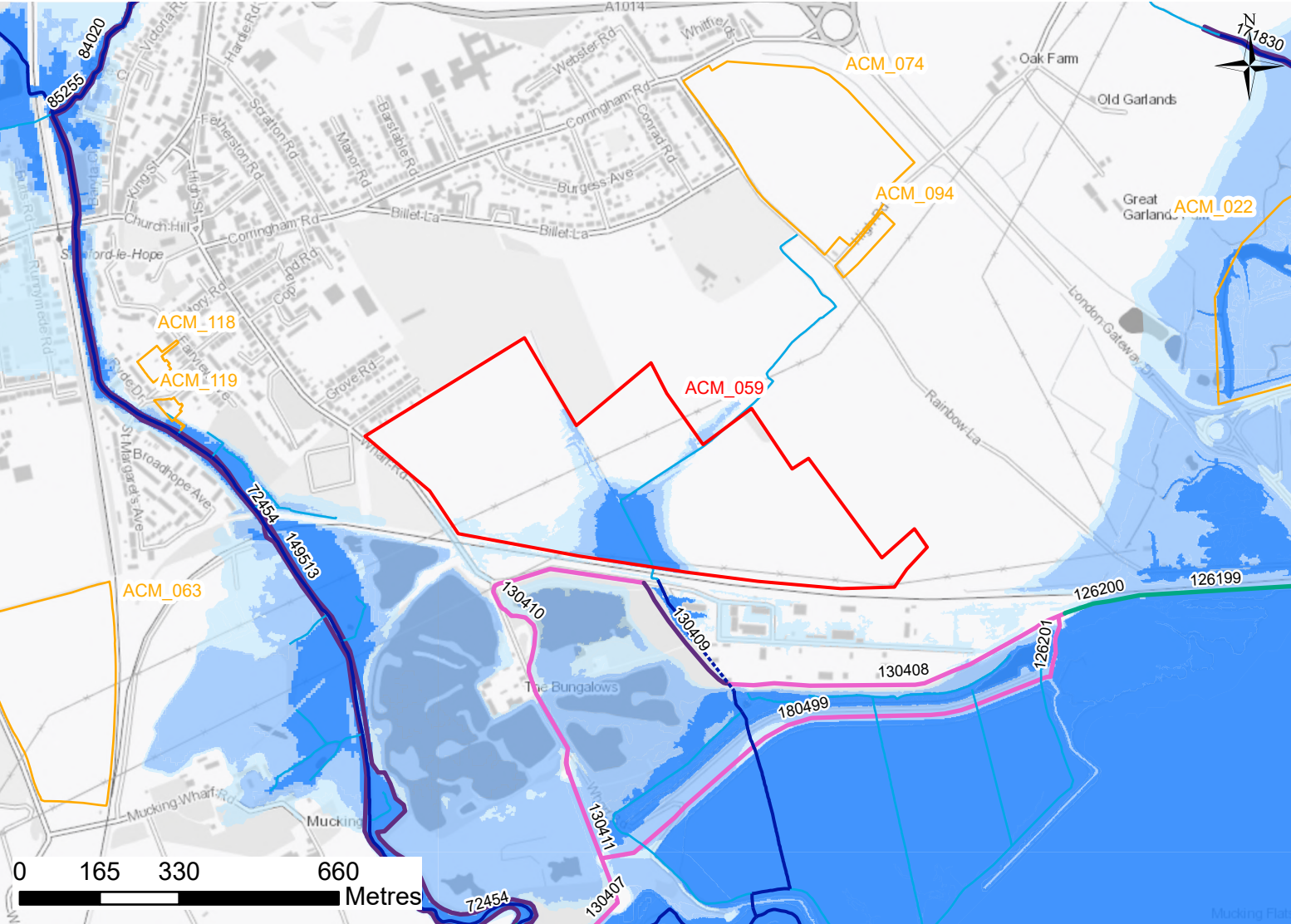
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.456mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_059	THURROCK REF: 60888	NEIGHBOURHOOD: Stanford-le-Hope West
SITE NAME: Land at Wharf Road, Stanford-le-Hope		SITE AREA: 30.31 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	82.43%	Flood Zone 2 (0.1% AEP):	6.77%
Flood Zone 3a (1% AEP):	4.6%	Flood Zone 3b (defined in SFRA report):	6.2%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 17.56%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 10.8%			
SURFACE WATER FLOODING			
0.1% AEP:	6.4%	1% AEP:	3.17%
3.33%:	6.26%		
0.1% AEP + 40% Climate Change:	8.35%	1% AEP + 40% Climate Change:	5.49%
3.33% AEP + 40% Climate Change:	8.47%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

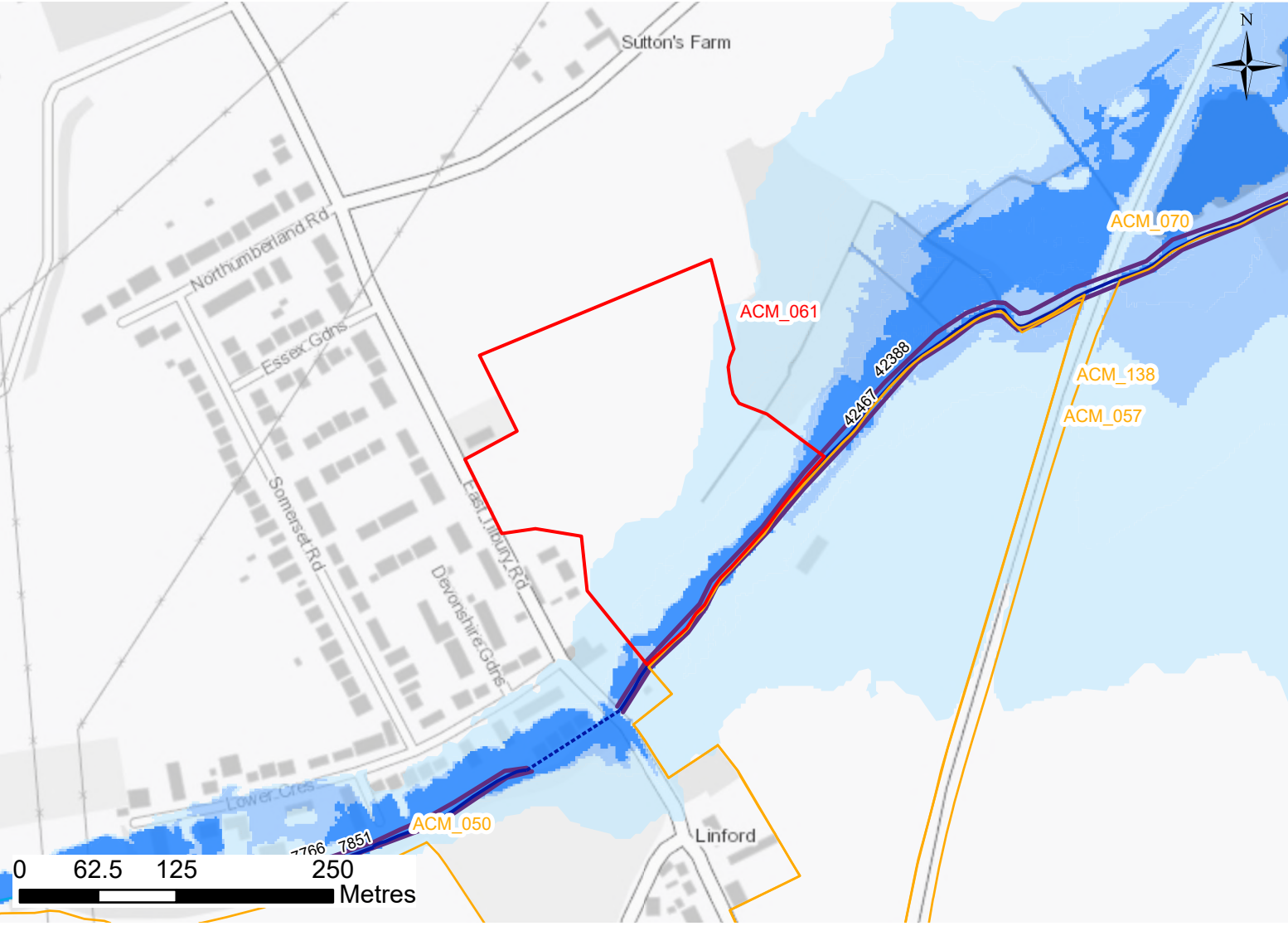
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	0%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%

AECOM REF: ACM_061	THURROCK REF: 60910	NEIGHBOURHOOD: East Tilbury
SITE NAME: Land at East Tilbury Road, Linford		SITE AREA: 4.85 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	62.66%	Flood Zone 2 (0.1% AEP):	29.95%
		Flood Zone 3a (1% AEP):	1.3%
		Flood Zone 3b (defined in SFRA report):	6.09%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 65.34%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 59.02%			
SURFACE WATER FLOODING			
0.1% AEP:	0.03%	1% AEP:	8.5%
		3.33%:	5.4%
0.1% AEP + 40% Climate Change:	0.04%	1% AEP + 40% Climate Change:	0.9%
		3.33% AEP + 40% Climate Change:	13.02%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

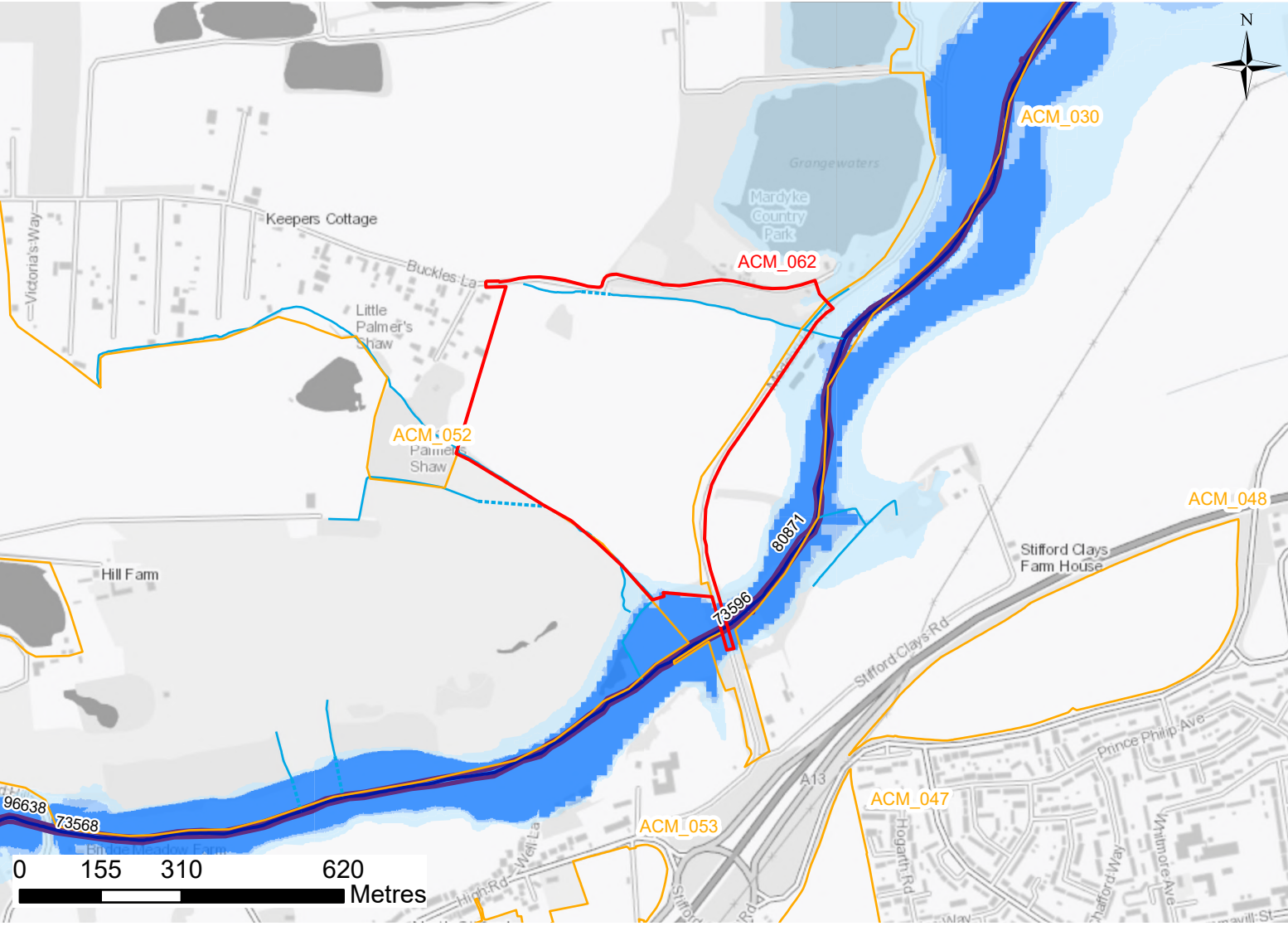
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.455mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_062	THURROCK REF: 60911	NEIGHBOURHOOD: Belhus
SITE NAME: Medebridge Road, South Ockendon		SITE AREA: 26.76 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	95.78%	Flood Zone 2 (0.1% AEP):	3.59%
		Flood Zone 3a (1% AEP):	0.14%
		Flood Zone 3b (defined in SFRA report):	0.49%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 4.8%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM16 3:19, RM15 6:19, RM16 5:4			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 0.56%			
SURFACE WATER FLOODING			
0.1% AEP: 2.48%	1% AEP: 0.61%		3.33%: 2%
0.1% AEP + 40% Climate Change: 3.48%	1% AEP + 40% Climate Change: 0.64%		3.33% AEP + 40% Climate Change: 2.35%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

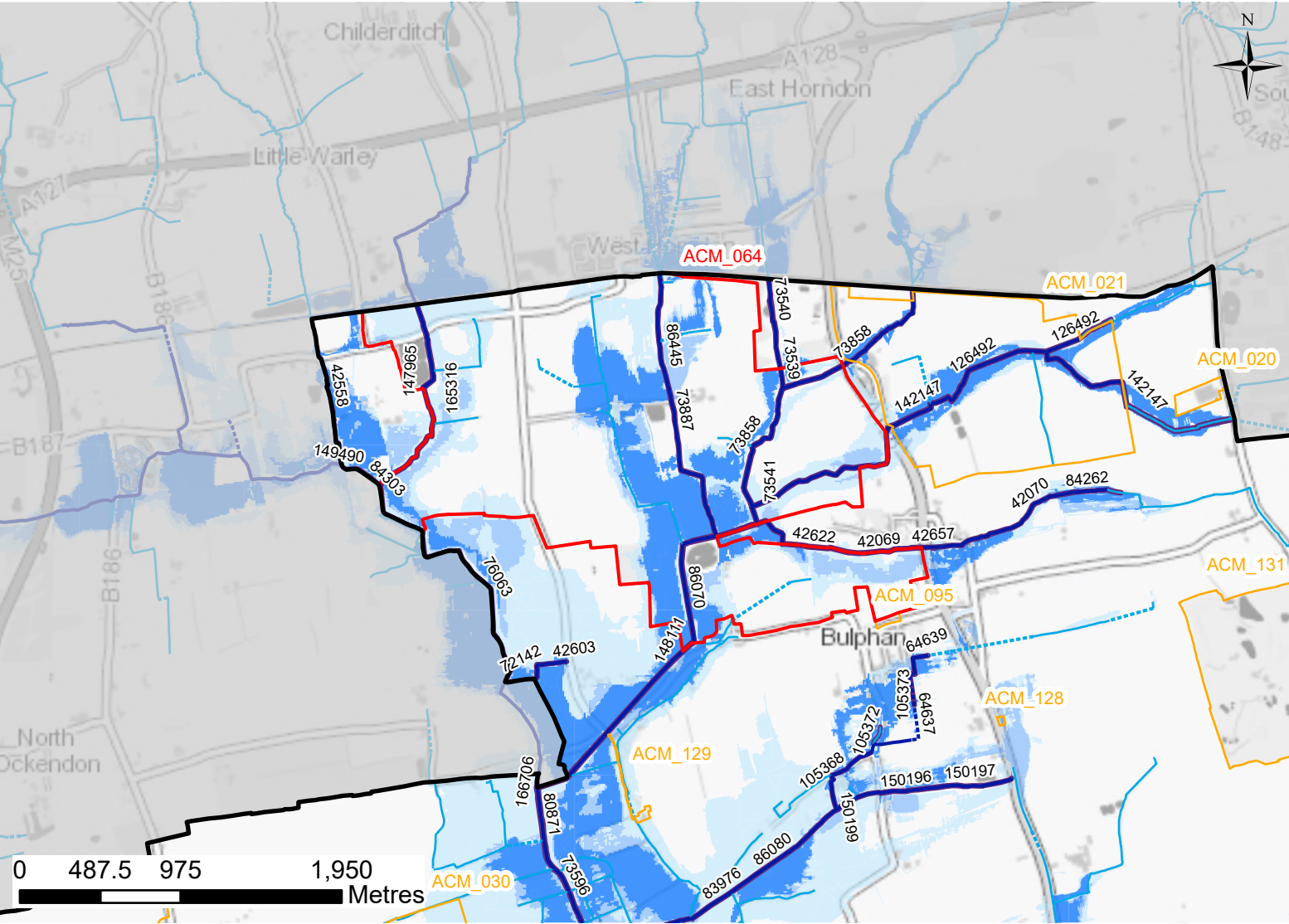
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0.23%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0.5%

AECOM REF: ACM_064	THURROCK REF: 60913	NEIGHBOURHOOD: Orsett
SITE NAME: West Horndon (approximate - see Site Location Plan)		SITE AREA: 463.29 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	54.41%	Flood Zone 2 (0.1% AEP):	19.93%
		Flood Zone 3a (1% AEP):	8.22%
		Flood Zone 3b (defined in SFRA report):	17.44%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 49.98%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): CM13 3:0, RM14 3:29			
CRITICAL DRAINAGE AREA: AoCD011			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 27.24%			
SURFACE WATER FLOODING			
0.1% AEP:	12.23%	1% AEP:	7.64%
		3.33%:	19.34%
0.1% AEP + 40% Climate Change:	12.96%	1% AEP + 40% Climate Change:	7.4%
		3.33% AEP + 40% Climate Change:	23.4%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

THESE MAPS ARE INTERACTIVE AND REQUIRE THE USE OF ADOBE ACROBAT TO BE ABLE TO CLICK ON THE INDIVIDUAL TABS TO LOAD THE LAYERS. PLEASE USE THE BUTTONS BELOW TO DISPLAY / HIDE DIFFERENT SOURCES OF FLOOD RISK TO THE SITE.

FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

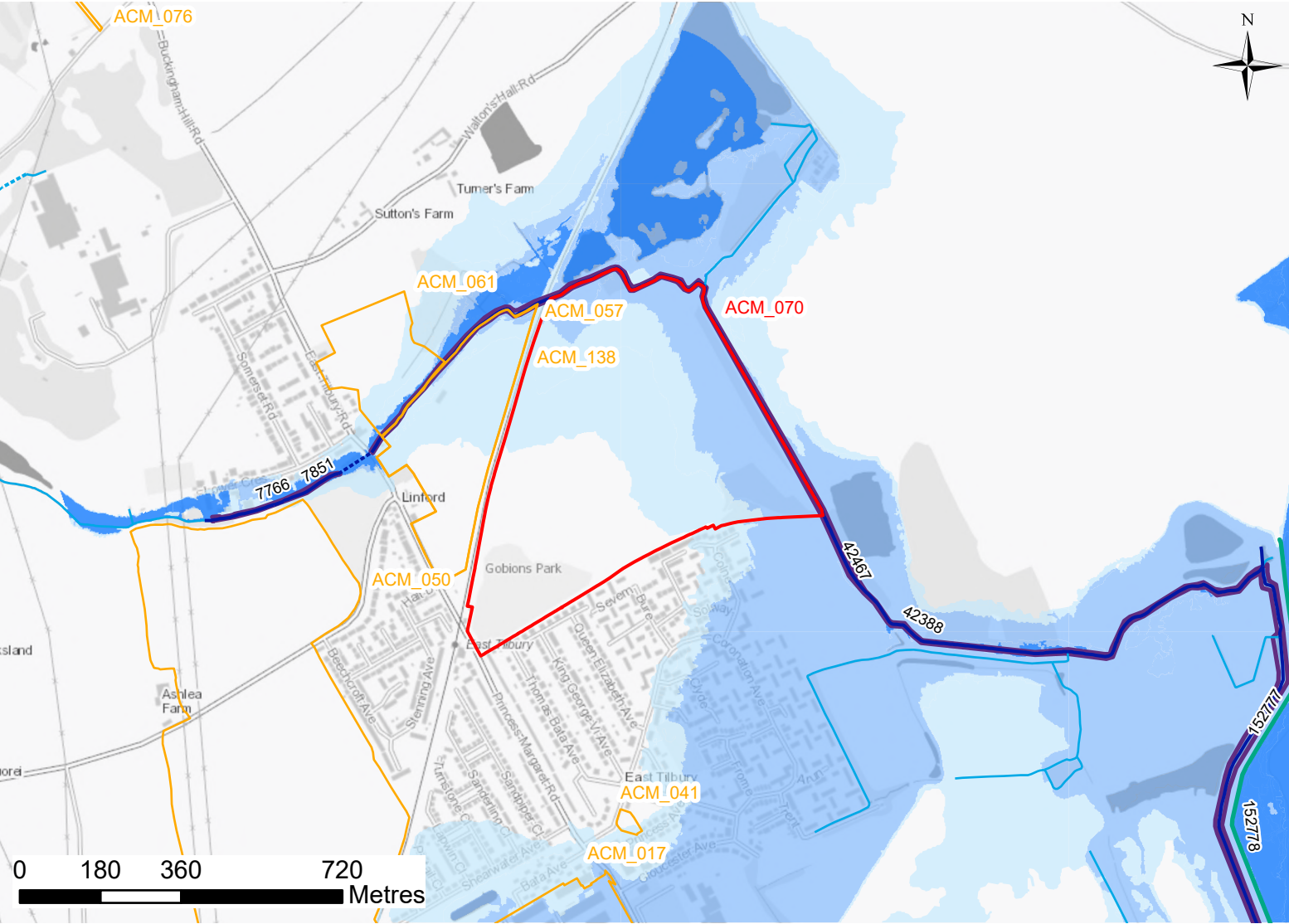
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
9.34%	15.59%

AECOM REF: ACM_070	THURROCK REF: 60939	NEIGHBOURHOOD: East Tilbury
SITE NAME: Gobions Park, East Tilbury		SITE AREA: 36.94 ha



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*Please note the nearest watercourse may be a Main River and may be culverted.
**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	35.7%	Flood Zone 2 (0.1% AEP):	38.04%
Flood Zone 3a (1% AEP):	25.91%	Flood Zone 3b (defined in SFRA report):	0.35%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 98.18%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 0.43m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120, SS17 0:70			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 93.7%			
SURFACE WATER FLOODING			
0.1% AEP:	1.26%	1% AEP:	2.31%
0.1% AEP + 40% Climate Change:	2.29%	1% AEP + 40% Climate Change:	1.52%
3.33% AEP:	2.48%	3.33% AEP + 40% Climate Change:	3.64%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING

BEDROCK GEOLOGY: Thanet Sand Formation

SUPERFICIAL GEOLOGY: Alluvium and River Terrace Deposits (Undifferentiated)

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE:

Potential for groundwater flooding of property situated below ground level

SUDS INFILTRATION SUITABILITY SUMMARY:

Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.

TIDAL FLOODING

BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

MAXIMUM WATER LEVEL: 5.630mAOD **FROM BREACH LOCATION:** ETIL002

OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

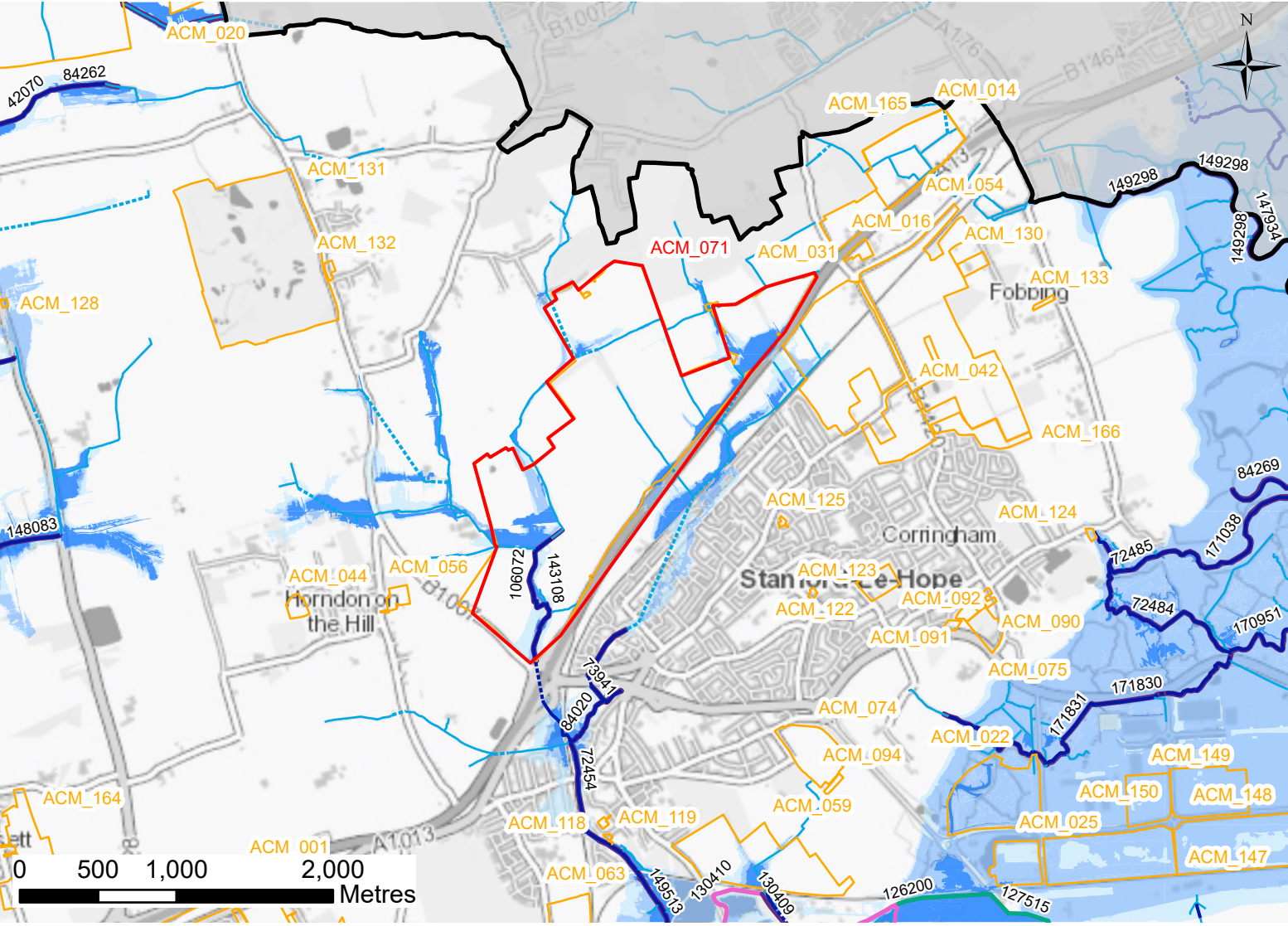
MAXIMUM WATER LEVEL: n/a

RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)

% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):

WHEN RIVER LEVELS ARE NORMAL:	0%	WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%
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AECOM REF: ACM_071	THURROCK REF: 60940	NEIGHBOURHOOD: Orsett
SITE NAME: Land north of Stanford Le Hope		SITE AREA: 225.29 ha



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**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	83.97%	Flood Zone 2 (0.1% AEP):	5.29%
Flood Zone 3a (1% AEP):	3.13%	Flood Zone 3b (defined in SFRA report):	7.61%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 17.14%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 8:51, SS16 6:61, SS17 9:28, SS16 5:47			
CRITICAL DRAINAGE AREA: AoCD010d			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 11.43%			
SURFACE WATER FLOODING			
0.1% AEP:	10.66%	1% AEP:	3.9%
3.33%:	13.67%		
0.1% AEP + 40% Climate Change:	8.57%	1% AEP + 40% Climate Change:	6.74%
3.33% AEP + 40% Climate Change:	16.53%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

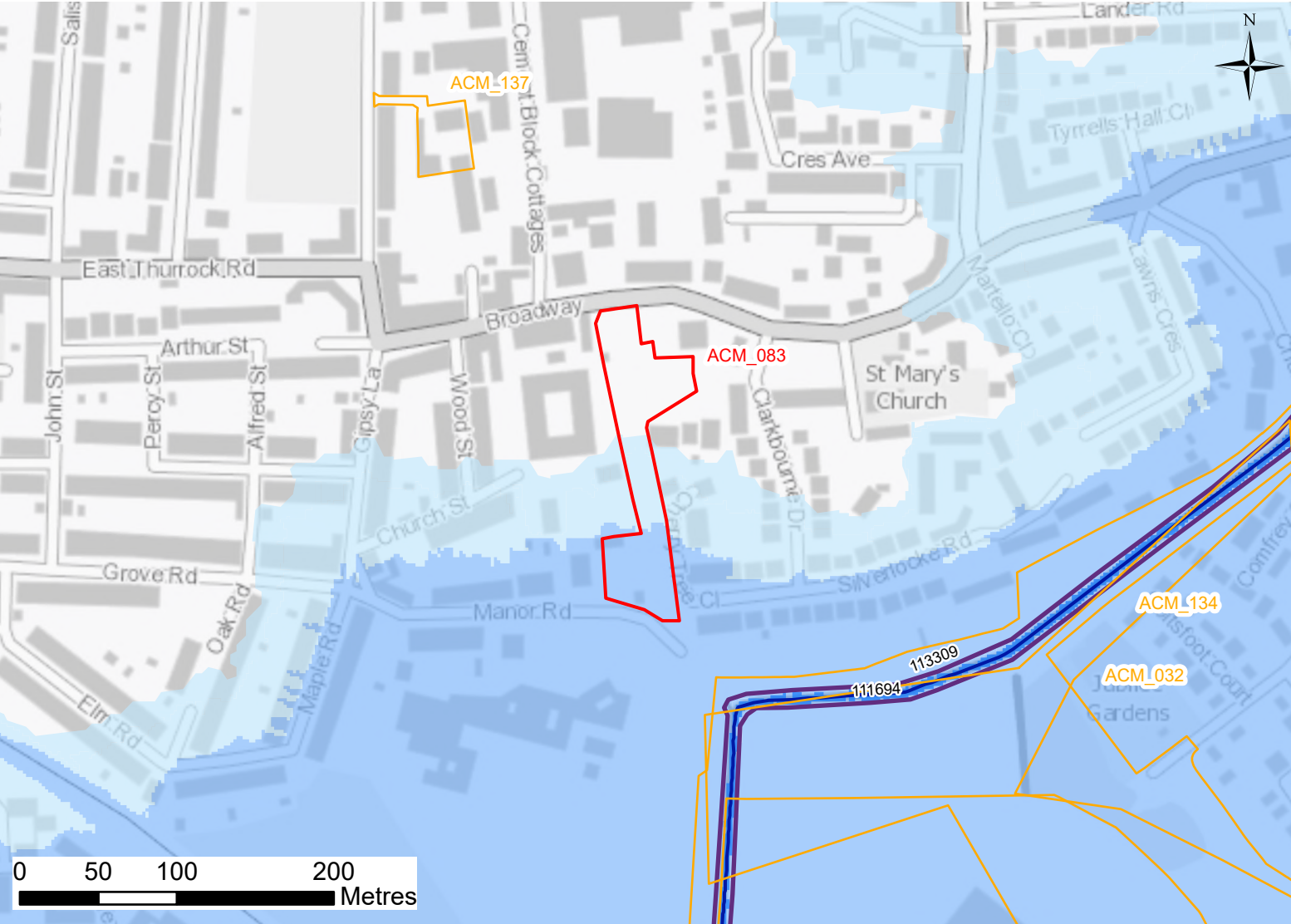
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_083	THURROCK REF: 61011	NEIGHBOURHOOD: Grays Thurrock
SITE NAME: Land at Manor Road		SITE AREA: 0.63 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	47.95%	Flood Zone 2 (0.1% AEP):	17.05%
Flood Zone 3a (1% AEP):	35%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 98.87%			
FLOOD WARNING AREA(S): The Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 66.59m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 98.87%			
SURFACE WATER FLOODING			
0.1% AEP:	9.17%	1% AEP:	6.24%
3.33%:	19.36%		
0.1% AEP + 40% Climate Change:	17.83%	1% AEP + 40% Climate Change:	5.47%
3.33% AEP + 40% Climate Change:	23.02%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

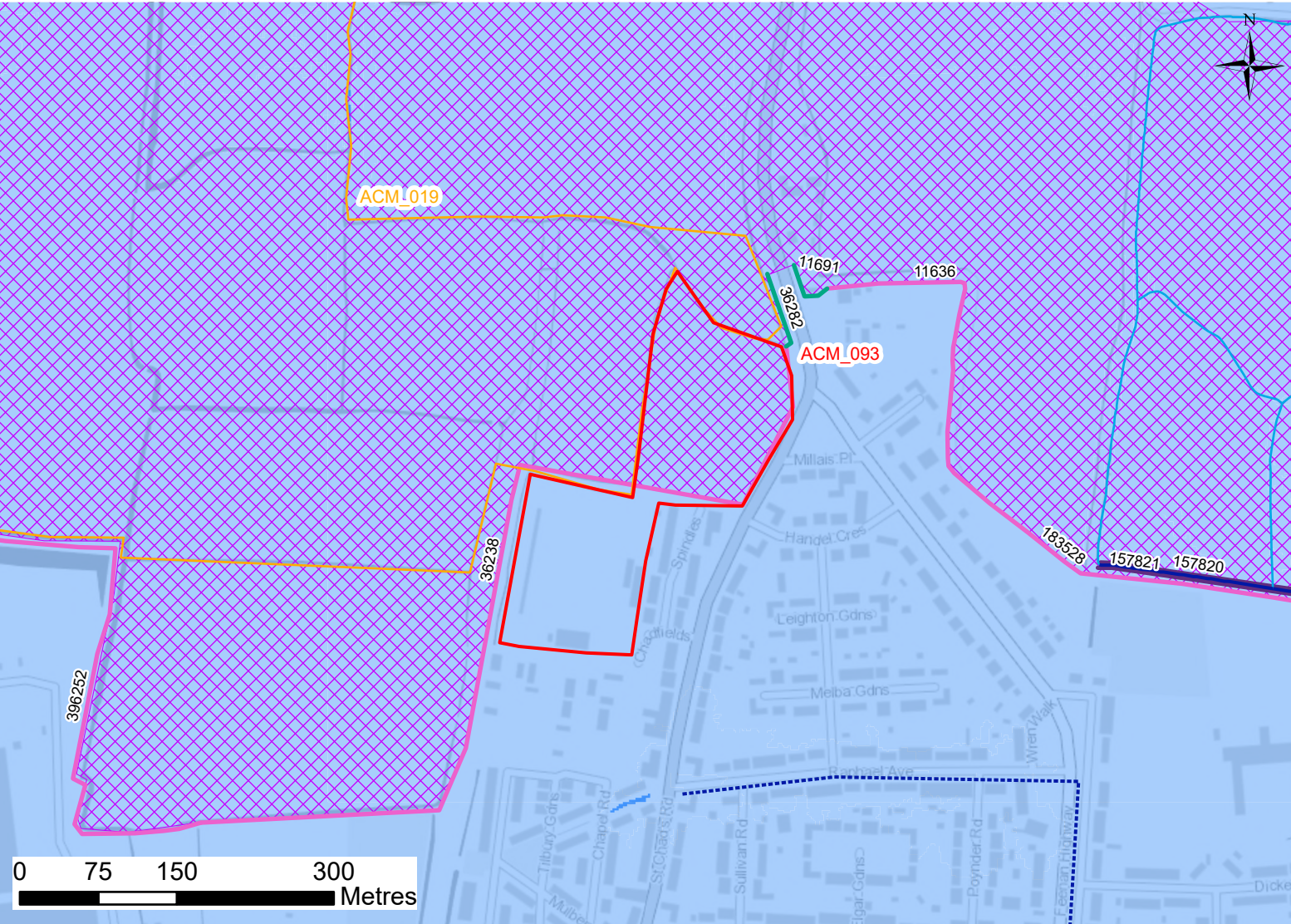
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS, with some areas of the site probable for standard infiltration SuDS.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_093	THURROCK REF: 61059	NEIGHBOURHOOD: Tilbury St Chads
SITE NAME: Tilbury Football Club, Chadfields, Tilbury RM18 8NL		SITE AREA: 4.25 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0%
		Flood Zone 3a (1% AEP):	49%
		Flood Zone 3b (defined in SFRA report):	51%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 141.49m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD008			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	1.17%	1% AEP:	8.88%
		3.33%:	24.32%
0.1% AEP + 40% Climate Change:	3.11%	1% AEP + 40% Climate Change:	3.48%
		3.33% AEP + 40% Climate Change:	30.08%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES	RIVERS AND SEA FLOODING: CLIMATE CHANGE
RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY	RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE
RISK OF FLOODING FROM RESERVOIRS	BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH	MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD
MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH	MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING

BEDROCK GEOLOGY: White Chalk Subgroup

SUPERFICIAL GEOLOGY: Alluvium

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE:
Potential for groundwater flooding of property situated below ground level

SUDS INFILTRATION SUITABILITY SUMMARY:
Opportunities for bespoke infiltration SuDS

TIDAL FLOODING

BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

MAXIMUM WATER LEVEL: 2.150mAOD **FROM BREACH LOCATION:** TIL003

OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

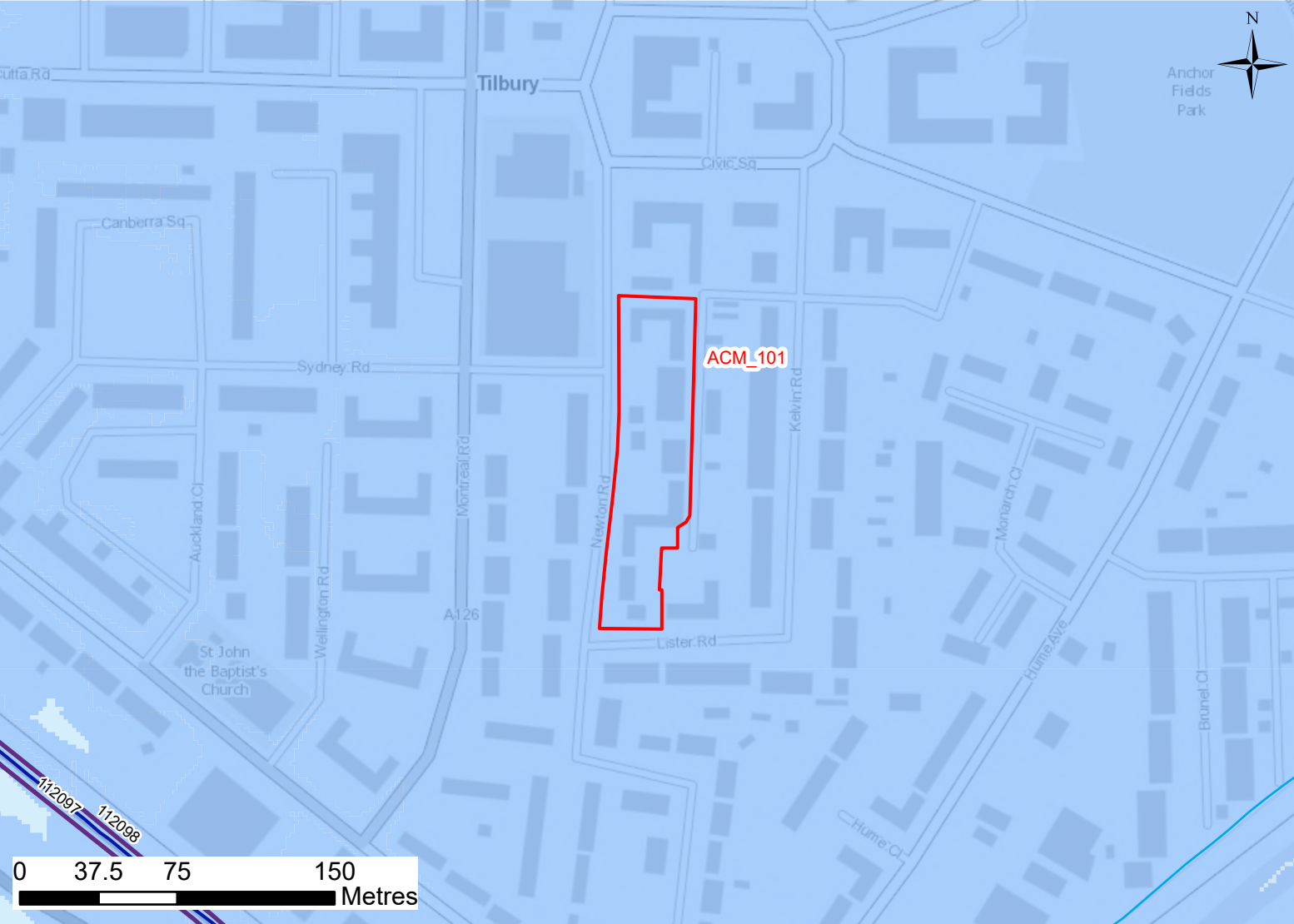
MAXIMUM WATER LEVEL: n/a

RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)

% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):

WHEN RIVER LEVELS ARE NORMAL:	54.14%	WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%
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AECOM REF: ACM_101	THURROCK REF: 61093	NEIGHBOURHOOD: Tilbury Riverside and Thurrock Park
SITE NAME: Crown Court, Newton Road, Tilbury		SITE AREA: 0.54 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0%
		Flood Zone 3a (1% AEP):	100%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 213.04m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD008			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	6.36%	1% AEP:	4.26%
		3.33%:	39.07%
0.1% AEP + 40% Climate Change:	5.73%	1% AEP + 40% Climate Change:	3.85%
		3.33% AEP + 40% Climate Change:	41.45%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 2.150mAOD	FROM BREACH LOCATION: TIL003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
66.64%	0%

AECOM REF: ACM_102	THURROCK REF: 61094	NEIGHBOURHOOD: Tilbury St Chads
SITE NAME: Land rear of 2 North View Avenue, Tilbury		SITE AREA: 0.49 ha



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**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0%
		Flood Zone 3a (1% AEP):	100%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 286.67m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120, RM18 7:46			
CRITICAL DRAINAGE AREA: AoCD008			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	9.25%	1% AEP:	9.51%
		3.33%:	8.96%
0.1% AEP + 40% Climate Change:	7.78%	1% AEP + 40% Climate Change:	7.43%
		3.33% AEP + 40% Climate Change:	14.23%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

THESE MAPS ARE INTERACTIVE AND REQUIRE THE USE OF ADOBE ACROBAT TO BE ABLE TO CLICK ON THE INDIVIDUAL TABS TO LOAD THE LAYERS. PLEASE USE THE BUTTONS BELOW TO DISPLAY / HIDE DIFFERENT SOURCES OF FLOOD RISK TO THE SITE.

FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 2.150mAOB	FROM BREACH LOCATION: TIL003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
99.89%	0%

AECOM REF: ACM_103	THURROCK REF: 61097	NEIGHBOURHOOD: Tilbury Riverside and Thurrock Park
SITE NAME: Alexandra Court Sheltered Housing complex, Alexandra Road, Tilbury		SITE AREA: 0.46 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0%
		Flood Zone 3a (1% AEP):	100%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 188.79m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 7:46			
CRITICAL DRAINAGE AREA: AoCD008			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP:	15.28%	1% AEP:	4.13%
		3.33%:	39.44%
0.1% AEP + 40% Climate Change:	13.92%	1% AEP + 40% Climate Change:	5.19%
		3.33% AEP + 40% Climate Change:	41.89%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 2.150mAOD	FROM BREACH LOCATION: TIL003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
98.58%	0%

AECOM REF: ACM_109	THURROCK REF: 61106	NEIGHBOURHOOD: Tilbury Riverside and Thurrock Park
SITE NAME: Alexandra Court sheltered housing complex		SITE AREA: 0.18 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 0%	Flood Zone 3a (1% AEP): 100%	Flood Zone 3b (defined in SFRA report): 0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 159.61m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 7:46			
CRITICAL DRAINAGE AREA: AoCD008			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP: 5.69%	1% AEP: 0.85%	3.33%: 13.36%	
0.1% AEP + 40% Climate Change: 7.48%	1% AEP + 40% Climate Change: 0.8%	3.33% AEP + 40% Climate Change: 13.71%	

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

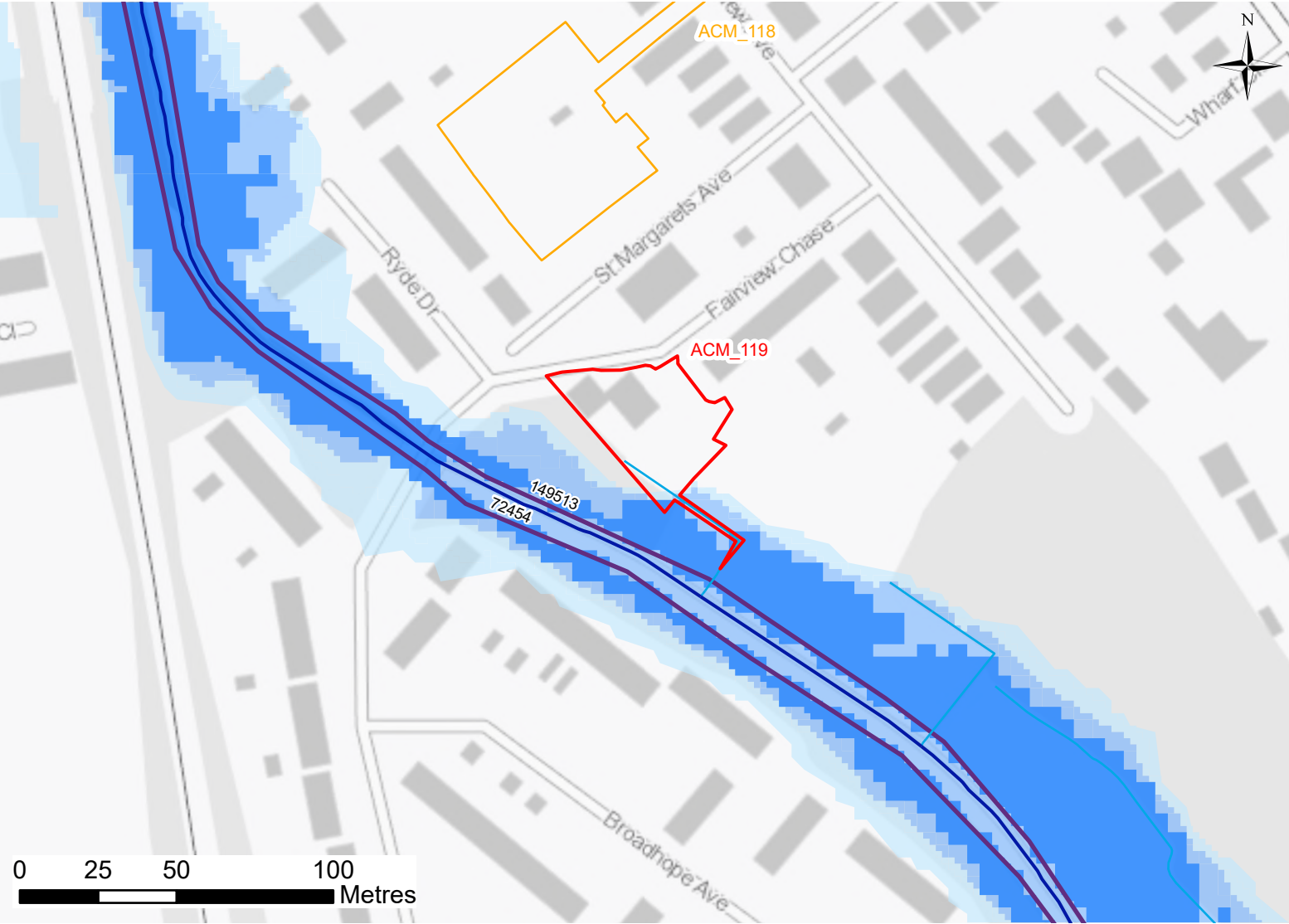
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 2.150mAOD	FROM BREACH LOCATION: TIL003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 100%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_119	THURROCK REF: 61124	NEIGHBOURHOOD: Stanford-le-Hope West
SITE NAME: Whitwell Court, Fairview Chase, Stanford le Hope		SITE AREA: 0.15 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	93.56%	Flood Zone 2 (0.1% AEP):	1.48%
Flood Zone 3a (1% AEP):	2.65%	Flood Zone 3b (defined in SFRA report):	2.31%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 9.2%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 9.2%			
SURFACE WATER FLOODING			
0.1% AEP:	7.54%	1% AEP:	0.52%
3.33%:	26.73%		
0.1% AEP + 40% Climate Change:	6%	1% AEP + 40% Climate Change:	2.33%
3.33% AEP + 40% Climate Change:	26.73%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

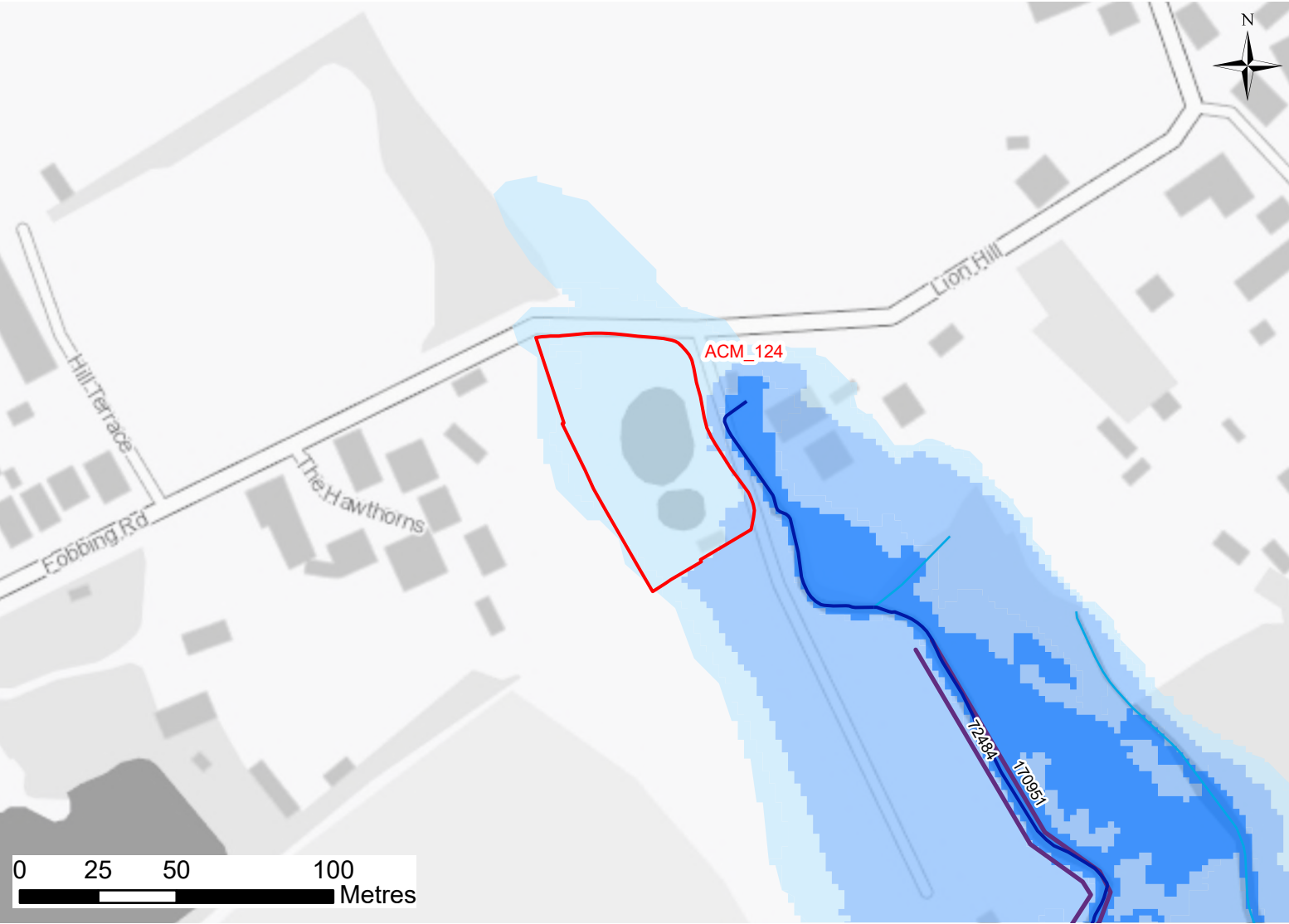
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.918mAOD	FROM BREACH LOCATION: MUC001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_124	THURROCK REF: 61143	NEIGHBOURHOOD: Corringham and Fobbing
SITE NAME: Land Adjacent 94		SITE AREA: 0.33 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0.03%	Flood Zone 2 (0.1% AEP): 96.27%	Flood Zone 3a (1% AEP): 3.7%	Flood Zone 3b (defined in SFRA report): 0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 5.72m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 9:28			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP: 12.32%	1% AEP: 9.96%	3.33%: 45.93%	
0.1% AEP + 40% Climate Change: 13.69%	1% AEP + 40% Climate Change: 8.67%	3.33% AEP + 40% Climate Change: 51.87%	

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

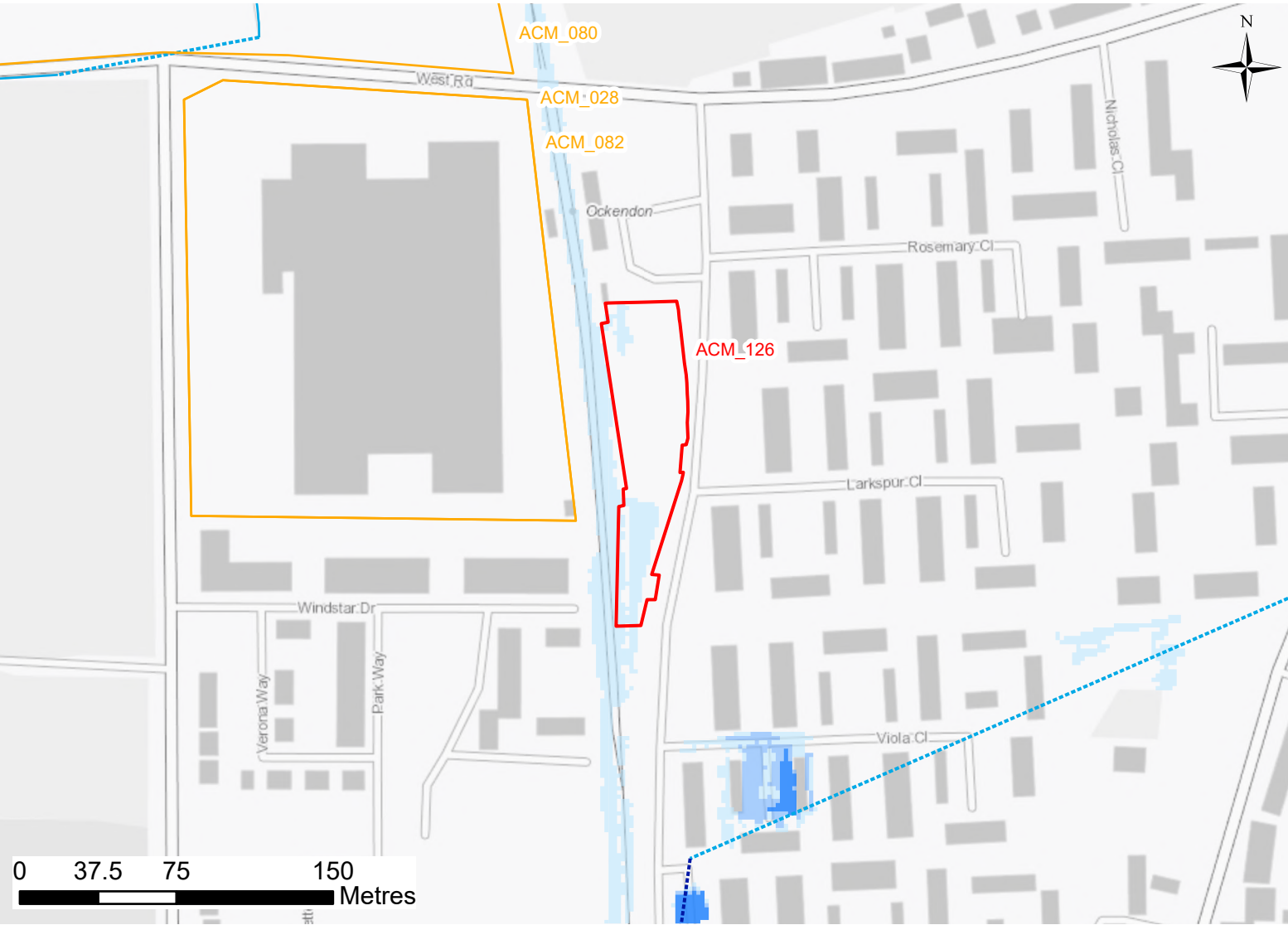
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_126	THURROCK REF: 61147	NEIGHBOURHOOD: Ockendon
SITE NAME: Land Adjoining		SITE AREA: 0.43 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	79.37%	Flood Zone 2 (0.1% AEP):	20.63%
Flood Zone 3a (1% AEP):	0%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 20.63%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 111.71m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 6:19			
CRITICAL DRAINAGE AREA: AoCD013			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 0%			
SURFACE WATER FLOODING			
0.1% AEP:	24.34%	1% AEP:	3.33%
3.33%:	0%		
0.1% AEP + 40% Climate Change:	17.61%	1% AEP + 40% Climate Change:	10.22%
3.33% AEP + 40% Climate Change:	2.45%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

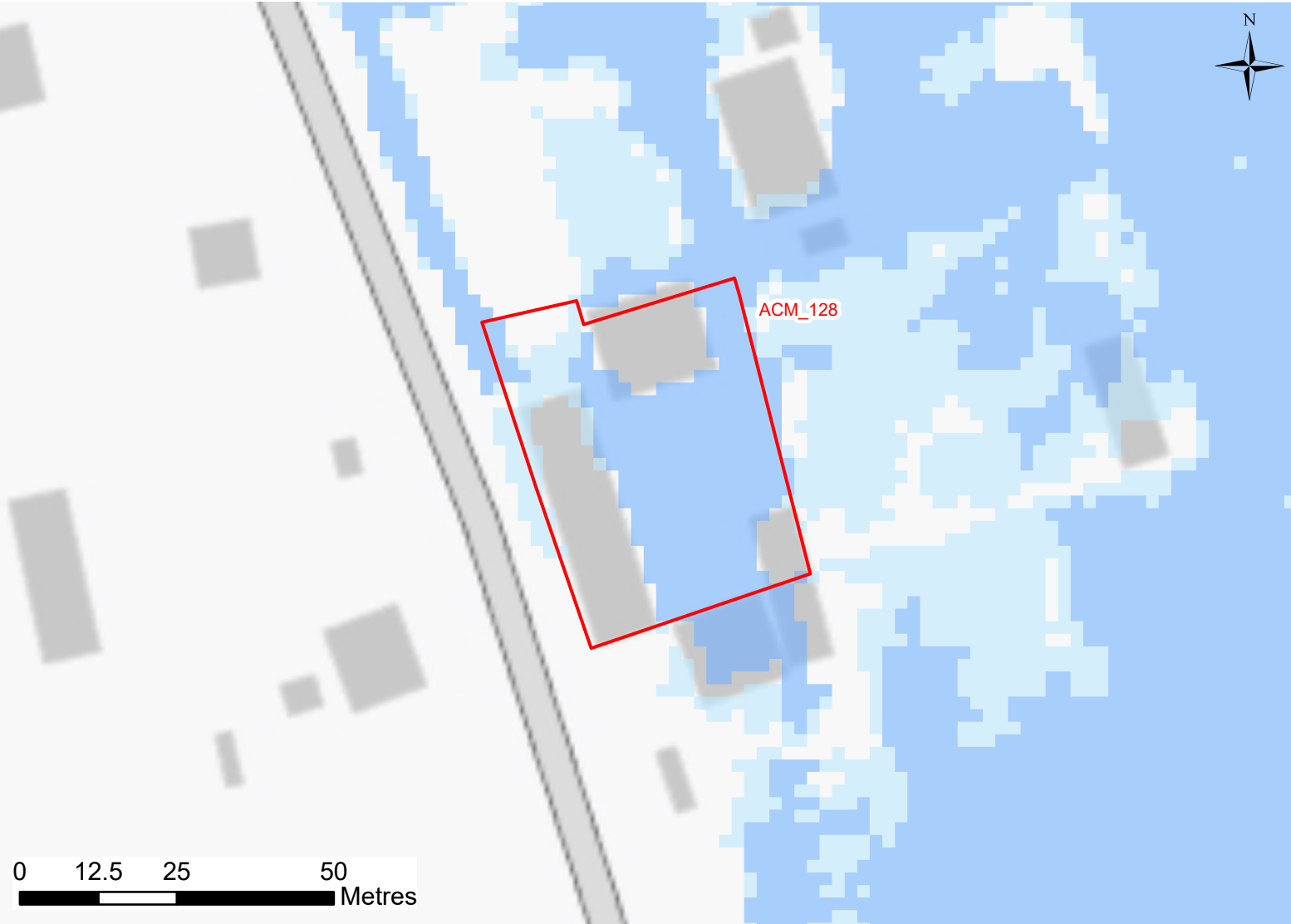
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_128	THURROCK REF: 61151	NEIGHBOURHOOD: Orsett
SITE NAME: Portland Lodge, Brentwood Road, Bulphan		SITE AREA: 0.2 ha



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**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	39.15%	Flood Zone 2 (0.1% AEP):	8.14%
		Flood Zone 3a (1% AEP):	52.71%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 60.85%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 262.98m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM14 3:29			
CRITICAL DRAINAGE AREA: AoCD011			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 52.71%			
SURFACE WATER FLOODING			
0.1% AEP:	4.29%	1% AEP:	9.73%
		3.33%:	83.44%
0.1% AEP + 40% Climate Change:	3.66%	1% AEP + 40% Climate Change:	3.45%
		3.33% AEP + 40% Climate Change:	91.41%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

THESE MAPS ARE INTERACTIVE AND REQUIRE THE USE OF ADOBE ACROBAT TO BE ABLE TO CLICK ON THE INDIVIDUAL TABS TO LOAD THE LAYERS. PLEASE USE THE BUTTONS BELOW TO DISPLAY / HIDE DIFFERENT SOURCES OF FLOOD RISK TO THE SITE.

FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING:
CLIMATE CHANGE

RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY

RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE

RISK OF FLOODING FROM
RESERVOIRS

BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING

MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH

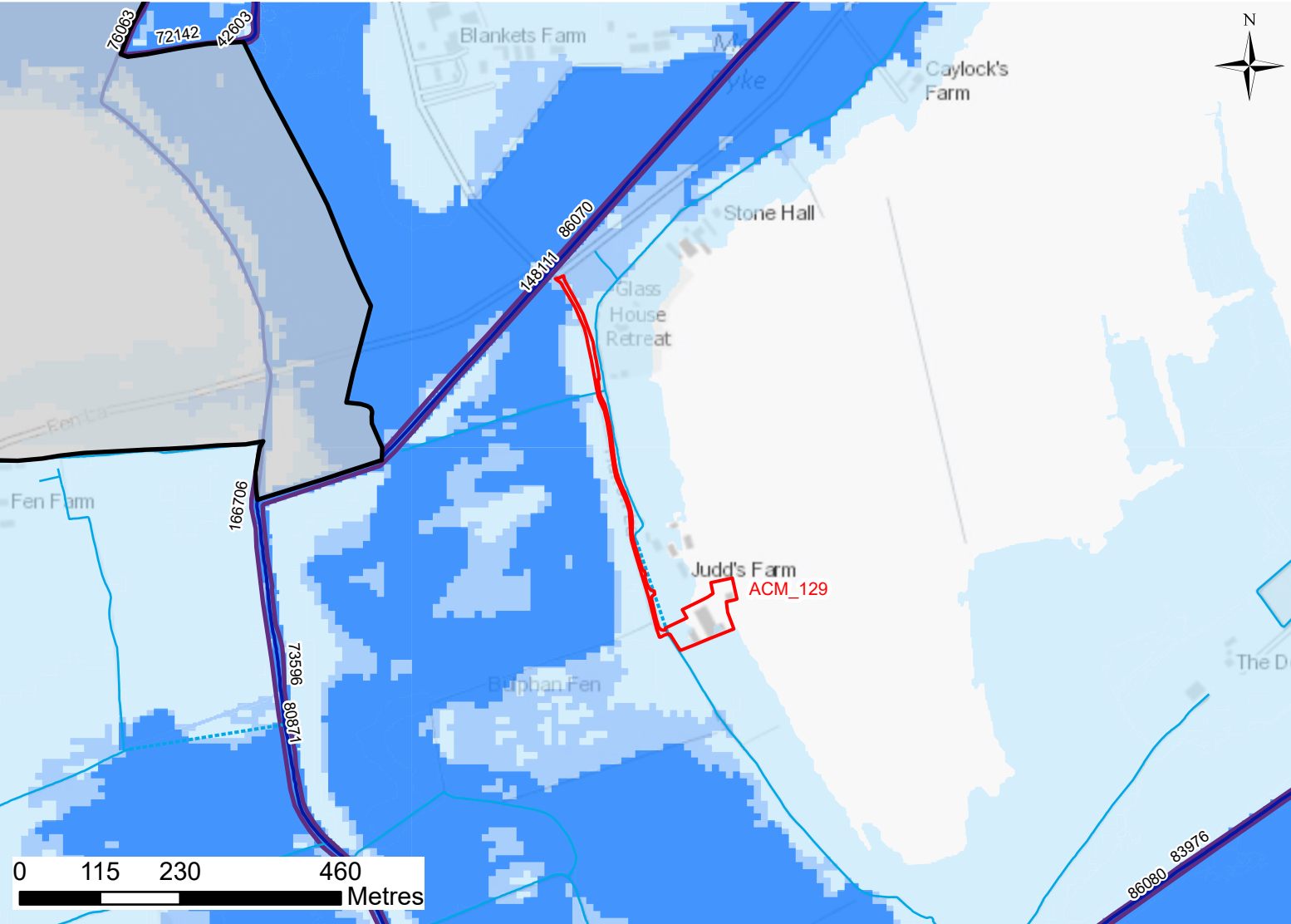
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_129	THURROCK REF: 61152	NEIGHBOURHOOD: Orsett
SITE NAME: Judds Farm, Harrow Lane, Bulphan		SITE AREA: 0.76 ha



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**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.
PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	50.49%	Flood Zone 2 (0.1% AEP):	47.61%
Flood Zone 3a (1% AEP):	1.89%	Flood Zone 3b (defined in SFRA report):	0.01%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 49.53%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM14 3:29			
CRITICAL DRAINAGE AREA: n/a			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 3.46%			
SURFACE WATER FLOODING			
0.1% AEP:	0.31%	1% AEP:	0.02%
3.33%:	0%		
0.1% AEP + 40% Climate Change:	1.83%	1% AEP + 40% Climate Change:	0%
3.33% AEP + 40% Climate Change:	0.02%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thames Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding to occur at surface	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0%
Flood Zone 3a (1% AEP):	93.93%	Flood Zone 3b (defined in SFRA report):	6.07%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 100%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury and the Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77, RM18 7:46			
CRITICAL DRAINAGE AREA: AoCD007			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 100%			
SURFACE WATER FLOODING			
0.1% AEP: 9.19%	1% AEP: 30.61%	3.33%: 29.12%	
0.1% AEP + 40% Climate Change: 4.58%	1% AEP + 40% Climate Change: 9.11%	3.33% AEP + 40% Climate Change: 56.09%	

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

 Flood Zone 3b
 Flood Zone 3a
 Flood Zone 2

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

**FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES**

RIVERS AND SEA FLOODING: CLIMATE CHANGE

**RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY**

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

**MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH**

**MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH**

**MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD**

BEDROCK GEOLOGY: White Chalk Subgroup

SUPERFICIAL GEOLOGY: Alluvium

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE:

Potential for groundwater flooding of property situated below ground level

SUDS INFILTRATION SUITABILITY SUMMARY:

Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.

TIDAL FLOODING

BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

MAXIMUM WATER LEVEL: 2.153mAOD **FROM BREACH LOCATION: TIL003**

OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)

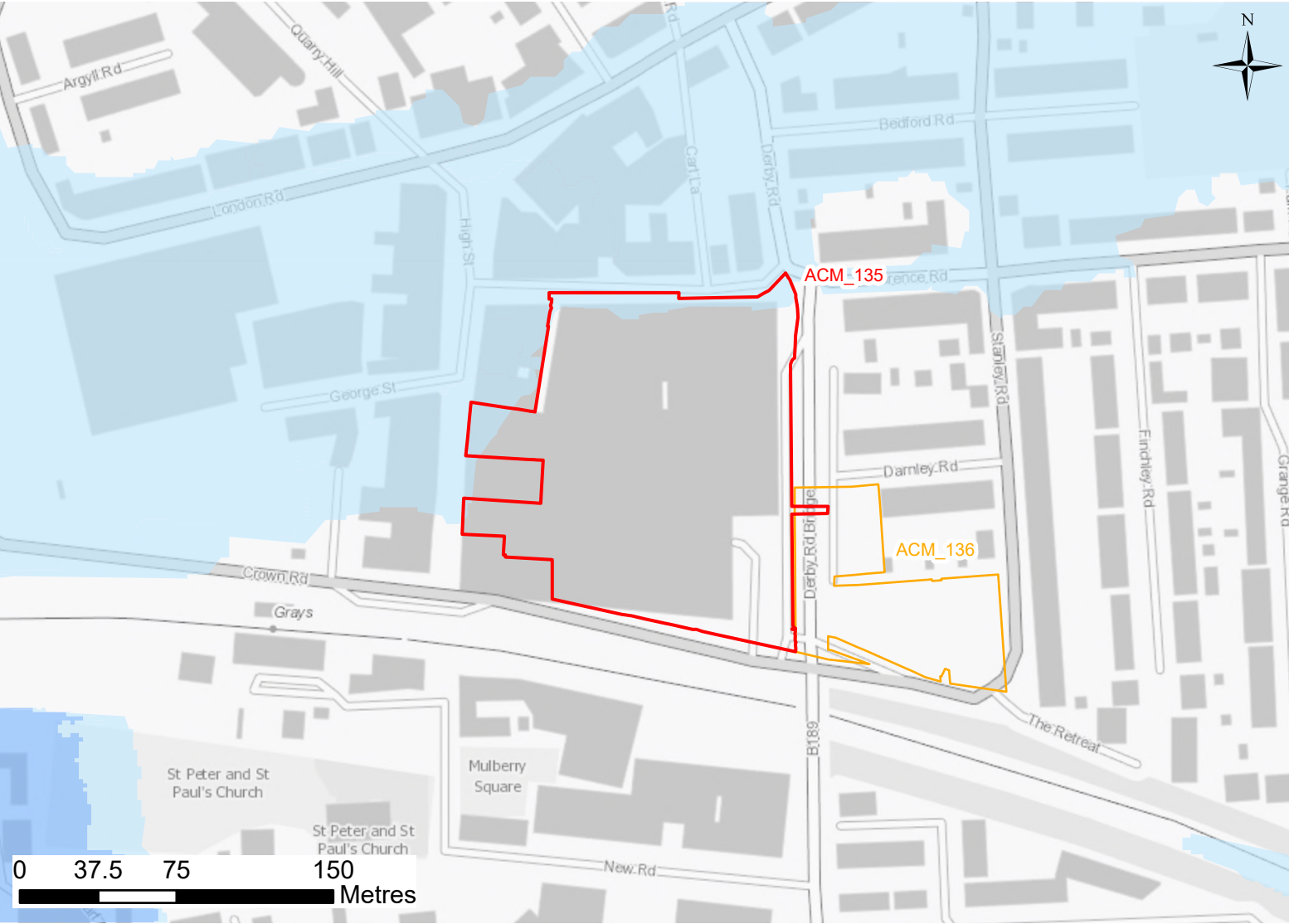
MAXIMUM WATER LEVEL: n/a

RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)

% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):

WHEN RIVER LEVELS ARE NORMAL:	92.64%	WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%
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AECOM REF: ACM_135	THURROCK REF: 61171	NEIGHBOURHOOD: Grays Riverside
SITE NAME: Grays Shopping Centre, High Street, Grays		SITE AREA: 2.06 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	93.68%	Flood Zone 2 (0.1% AEP):	6.32%
Flood Zone 3a (1% AEP):	0%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 85.58%			
FLOOD WARNING AREA(S): The Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 716.63m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77, RM17 9:0			
CRITICAL DRAINAGE AREA: AoCD005			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 85.58%			
SURFACE WATER FLOODING			
0.1% AEP:	4.62%	1% AEP:	2.95%
3.33%:	71.43%		
0.1% AEP + 40% Climate Change:	3.08%	1% AEP + 40% Climate Change:	4.23%
3.33% AEP + 40% Climate Change:	73.24%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

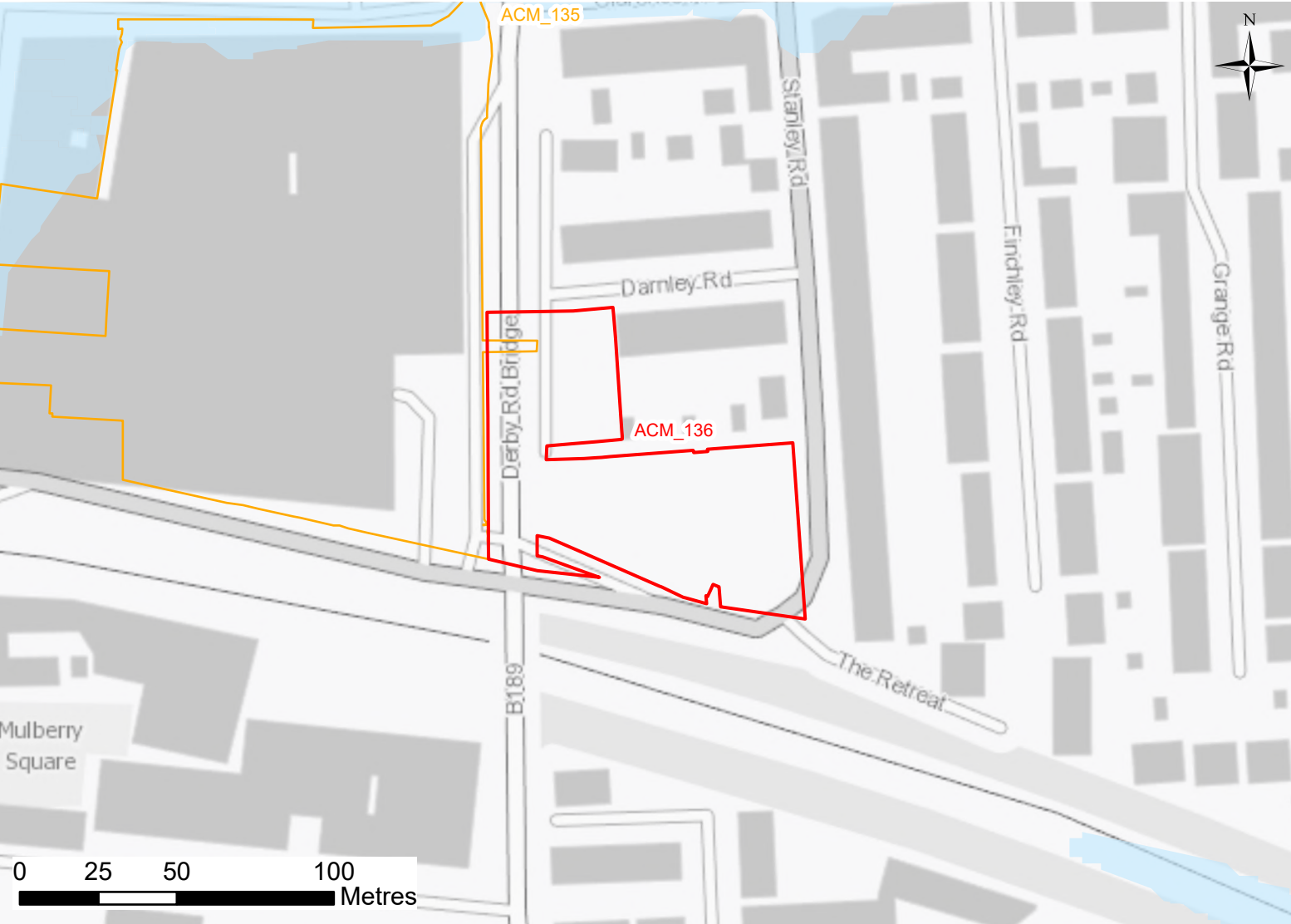
- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES	RIVERS AND SEA FLOODING: CLIMATE CHANGE
RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY	RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE
RISK OF FLOODING FROM RESERVOIRS	BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH	MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD
MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH	MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Opportunities for bespoke infiltration SuDS, with some areas of the site highly probable for standard infiltration SuDS.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 4.974mAOD	FROM BREACH LOCATION: GRY003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_136	THURROCK REF: 61172	NEIGHBOURHOOD: Grays Riverside
SITE NAME: Car Parks Crown Road And Darnley Road, Grays		SITE AREA: 0.59 ha



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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	100%	Flood Zone 2 (0.1% AEP):	0%
		Flood Zone 3a (1% AEP):	0%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 29.22%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 638.08m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77			
CRITICAL DRAINAGE AREA: AoCD005			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 29.22%			
SURFACE WATER FLOODING			
0.1% AEP:	2.05%	1% AEP:	3.56%
		3.33%:	15.06%
0.1% AEP + 40% Climate Change:	2.32%	1% AEP + 40% Climate Change:	1.76%
		3.33% AEP + 40% Climate Change:	17.57%

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

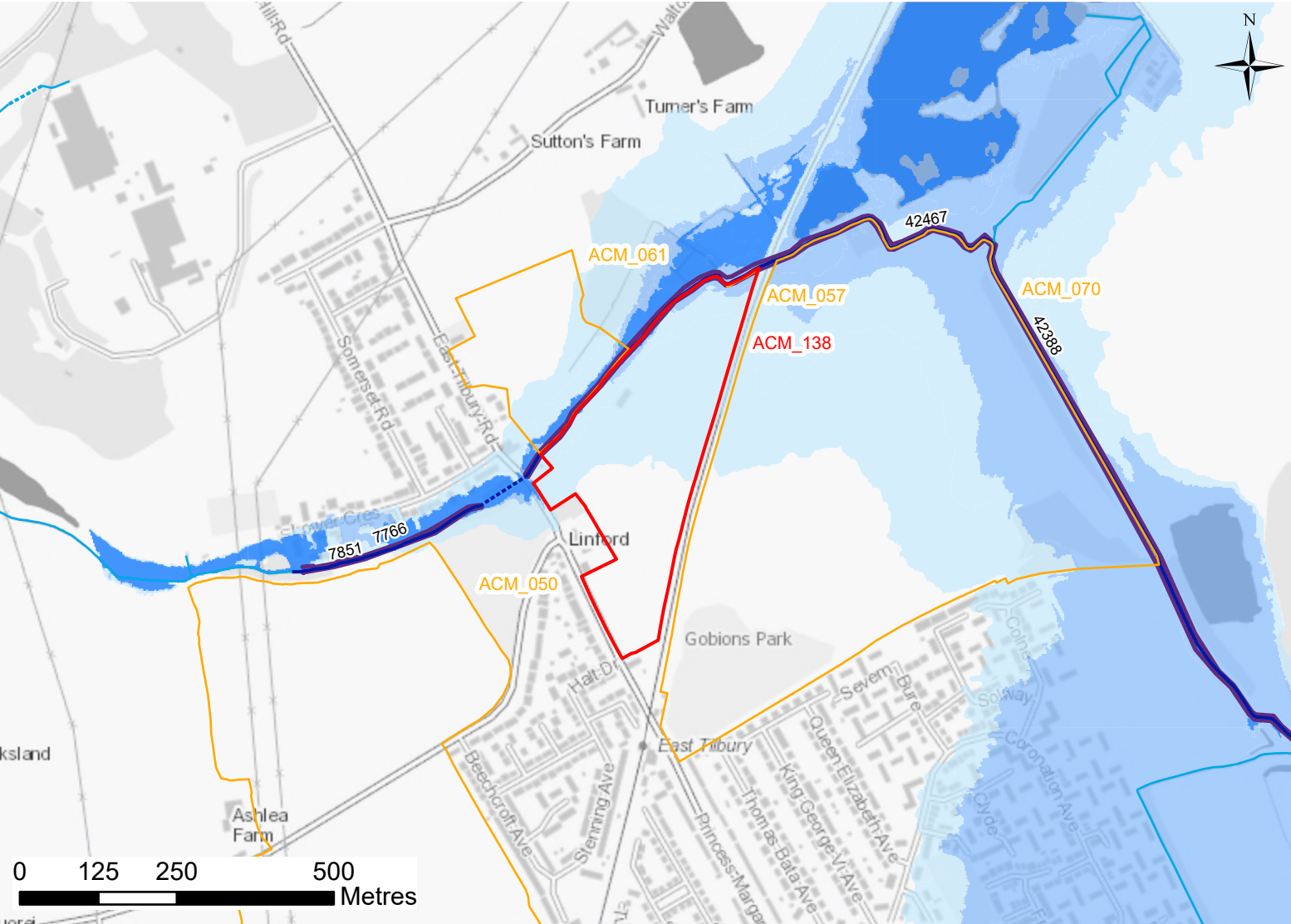
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: n/a	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Limited potential for groundwater flooding to occur	
SUDS INFILTRATION SUITABILITY SUMMARY: Probably compatible for infiltration SuDS, with some areas of the site highly compatible.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	FROM BREACH LOCATION: n/a
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_138	THURROCK REF: 61187	NEIGHBOURHOOD: East Tilbury
SITE NAME: Land adjacent and rear of George and Dragon Public House		SITE AREA: 9.52 ha



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*Please note the nearest watercourse may be a Main River and may be culverted.
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PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	39.13%	Flood Zone 2 (0.1% AEP):	55.97%
Flood Zone 3a (1% AEP):	3.83%	Flood Zone 3b (defined in SFRA report):	1.07%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 95.48%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 0.35m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 0:70, RM18 8:120			
CRITICAL DRAINAGE AREA: AoCD009			
RIVERS AND SEA FLOODING			
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 89.48%			
SURFACE WATER FLOODING			
0.1% AEP:	0.09%	1% AEP:	11.7%
3.33%:	6.89%		
0.1% AEP + 40% Climate Change:	0.3%	1% AEP + 40% Climate Change:	1.62%
3.33% AEP + 40% Climate Change:	17.01%		

Legend

- Thurrock Council
- Site of Interest
- Other Allocation Sites
- Main River
- Main River Culvert
- Ordinary Watercourse
- Ordinary Watercourse Culvert
- Water Storage Areas

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

- Embankment
- Flood Gate
- Natural High Ground
- Quay
- Wall

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FLOOD ZONES AND AIMS SPATIAL FLOOD DEFENCES

RIVERS AND SEA FLOODING: CLIMATE CHANGE

RISK OF FLOODING FROM SURFACE WATER: PRESENT DAY

RISK OF FLOODING FROM SURFACE WATER: CLIMATE CHANGE

RISK OF FLOODING FROM RESERVOIRS

BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING

MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD DEPTH

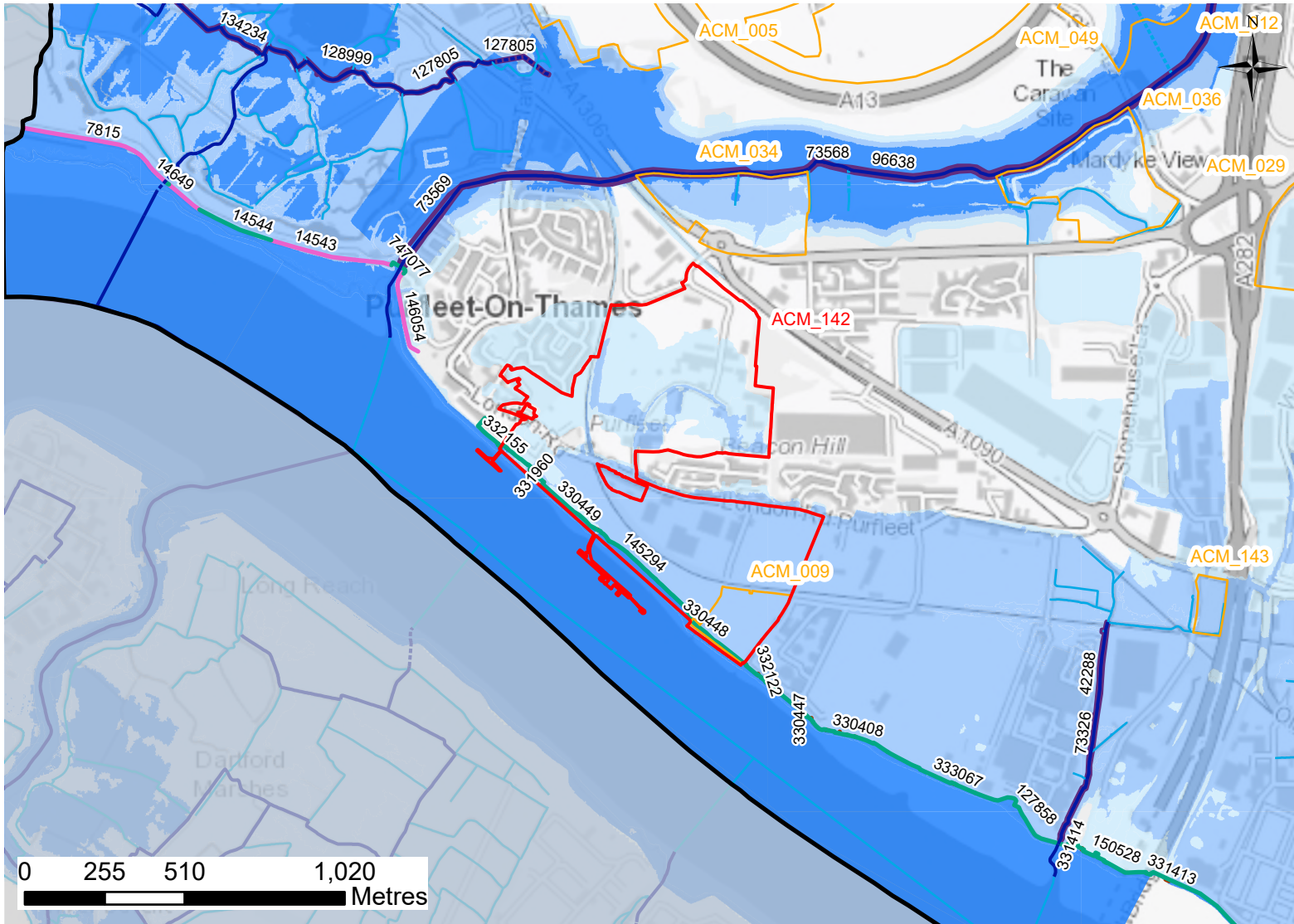
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
SUPERFICIAL GEOLOGY: River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however bespoke infiltration SuDS may be feasible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.456mAOD	FROM BREACH LOCATION: ETIL002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: n/a	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
0%	0%

AECOM REF: ACM_142	THURROCK REF: 61209	NEIGHBOURHOOD: West Thurrock and South Stifford	
SITE NAME: Development Land East Of Caspian Way And North And South Of London Road, Purfleet, Essex			SITE AREA: 62.24 ha



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*Please note the nearest watercourse may be a Main River and may be culverted.

**For rivers, the 'Central' allowance for the 2080s epoch (2070-2125) has been used. For the sea, the 'Upper End' allowance accounting for cumulative sea level rise to 2125 has been used.

PLEASE REFER TO THE SFRA REPORT FOR FURTHER DETAIL ON MODELLING DISPLAYED WITHIN THIS PROFORMA

VULNERABILITY CLASSIFICATION: More Vulnerable							
FLOOD ZONES AND HISTORIC FLOODING							
Flood Zone 1 (<0.1% AEP):	17.48%	Flood Zone 2 (0.1% AEP):	32.33%	Flood Zone 3a (1% AEP):	47.73%	Flood Zone 3b (defined in SFRA report):	2.46%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 89.16%							
FLOOD WARNING AREA(S): The Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock							
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex							
PROXIMITY TO CLOSEST WATERCOURSE*: 151.93m							
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM19 1:68							
CRITICAL DRAINAGE AREA: AoCD002							
RIVERS AND SEA FLOODING							
% OF SITE AT RISK OF FLOODING FROM RIVERS (1% AEP) AND SEA (0.5% AEP) DEFENDED INCLUDING CLIMATE CHANGE*: 88.11%							
SURFACE WATER FLOODING							
0.1% AEP: 5.12%		1% AEP: 6.55%		3.33%: 26.29%			
0.1% AEP + 40% Climate Change: 10.57%		1% AEP + 40% Climate Change: 3.97%		3.33% AEP + 40% Climate Change: 30.85%			

Legend

-  Thurrock Council
-  Site of Interest
-  Other Allocation Sites
-  Main River
-  Main River Culvert
-  Ordinary Watercourse
-  Ordinary Watercourse Culvert
-  Water Storage Areas

Flood Zones

-  Flood Zone 3b
 Flood Zone 3a
 Flood Zone 2

AIMS Spatial Flood Defences (with asset id)

-  Embankment
-  Flood Gate
-  Natural High Ground
-  Quay
- Wall

THESE MAPS ARE INTERACTIVE AND REQUIRE THE USE OF ADOBE ACROBAT TO BE ABLE TO CLICK ON THE INDIVIDUAL TABS TO LOAD THE LAYERS. PLEASE USE THE BUTTONS BELOW TO DISPLAY / HIDE DIFFERENT SOURCES OF FLOOD RISK TO THE SITE.

- | | |
|---|--|
| FLOOD ZONES AND AIMS
SPATIAL FLOOD DEFENCES | RIVERS AND SEA FLOODING:
CLIMATE CHANGE |
| RISK OF FLOODING FROM
SURFACE WATER: PRESENT
DAY | RISK OF FLOODING FROM
SURFACE WATER: CLIMATE
CHANGE |
| RISK OF FLOODING FROM
RESERVOIRS | BGS SUSCEPTIBILITY TO
GROUNDWATER FLOODING |
| MODELLLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD DEPTH | MODELLLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD |
| MODELLLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH | MODELLLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD |

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: White Chalk Subgroup	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: Potential for groundwater flooding of property situated below ground level	
SUDS INFILTRATION SUITABILITY SUMMARY: Very significant constraints are indicated, however infiltration SuDS are compatible in some areas of the site.	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 6.840mAOD	FROM BREACH LOCATION: PUR001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 1.167mAOD	
RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH)	
% OF SITE AT RISK OF FLOODING FROM RESERVOIRS (IN THE EVENT OF A BREACH):	
WHEN RIVER LEVELS ARE NORMAL: 0.39%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0.66%