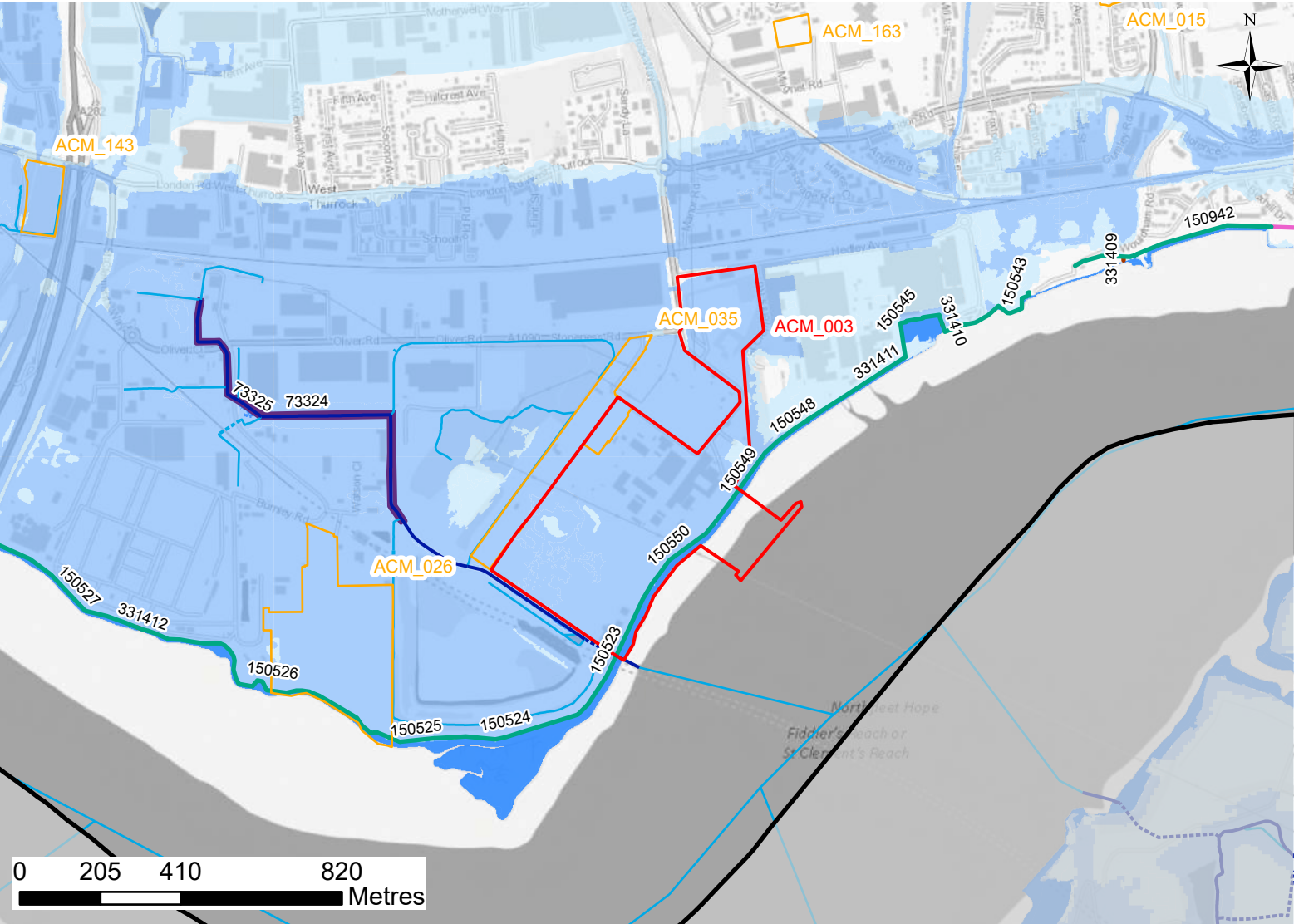


AECOM REF: ACM_003	THURROCK REF: 60850	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: West Thurrock Works, Stoneness Road		SITE AREA: 30.02 ha



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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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	8.75%	Flood Zone 2 (0.1% AEP):	1.88%
		Flood Zone 3a (1% AEP):	86.24%
		Flood Zone 3b (defined in SFRA report):	3.13%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 91.59%			
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*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM20 3:23, RM20 4:42			
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*: 91.36%			
SURFACE WATER FLOODING			
0.1% AEP:	4.11%	1% AEP:	6.96%
		3.33%:	21.48%
0.1% AEP + 40% Climate Change:	11.59%	1% AEP + 40% Climate Change:	4.58%
		3.33% AEP + 40% Climate Change:	25.19%

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

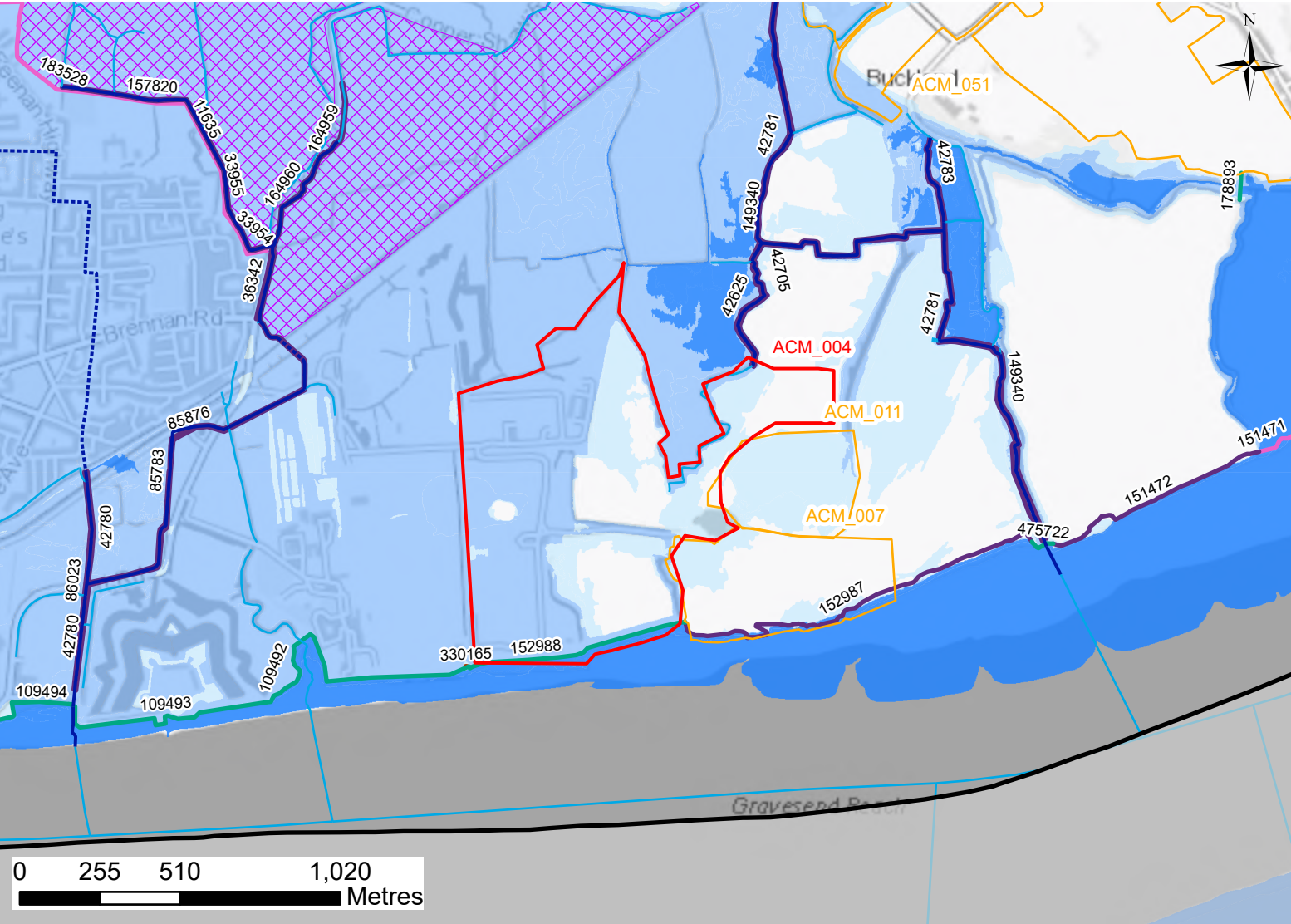
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 6.725mAOD	FROM BREACH LOCATION: PUR004
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 6.712mAOD	
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_004	THURROCK REF: 60854	NEIGHBOURHOOD: Tilbury Riverside and Thurrock Park
SITE NAME: Land East of Tilbury2		SITE AREA: 75.84 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	23.74%	Flood Zone 2 (0.1% AEP):	22.01%
Flood Zone 3a (1% AEP):	52.57%	Flood Zone 3b (defined in SFRA report):	1.68%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 91.25%			
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.): RM18 8:120			
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*: 89.44%			
SURFACE WATER FLOODING			
0.1% AEP:	1.47%	1% AEP:	6.61%
3.33%:	20.66%		
0.1% AEP + 40% Climate Change:	8.7%	1% AEP + 40% Climate Change:	2.7%
3.33% AEP + 40% Climate Change:	25.1%		

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

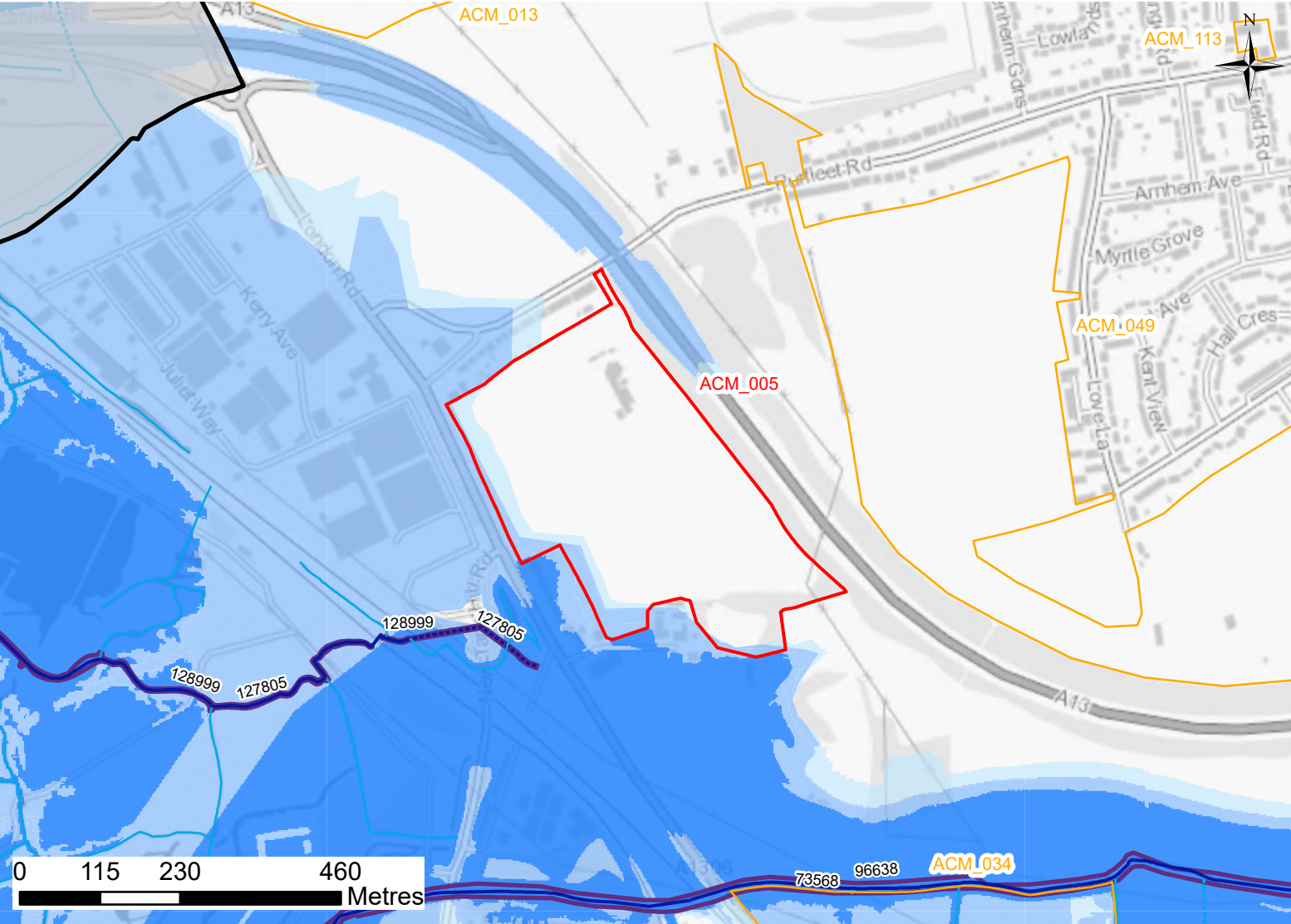
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 3.318mAOD	FROM BREACH LOCATION: TIL005
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 6.560mAOD	
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_005	THURROCK REF: 60859	NEIGHBOURHOOD: Aveley and Uplands
SITE NAME: Arterial Hub, Land north of Arterial Road		SITE AREA: 14.53 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	87.7%	Flood Zone 2 (0.1% AEP):	5.87%
		Flood Zone 3a (1% AEP):	6.37%
		Flood Zone 3b (defined in SFRA report):	0.06%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 38.38%			
FLOOD WARNING AREA(S): Tidal Thames from The Mardyke to Barking Creek			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 47.56m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 4:72			
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*: 0.12%			
SURFACE WATER FLOODING			
0.1% AEP:	0.28%	1% AEP:	0.82%
		3.33%:	5.25%
0.1% AEP + 40% Climate Change:	0.69%	1% AEP + 40% Climate Change:	0.47%
		3.33% AEP + 40% Climate Change:	5.68%

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

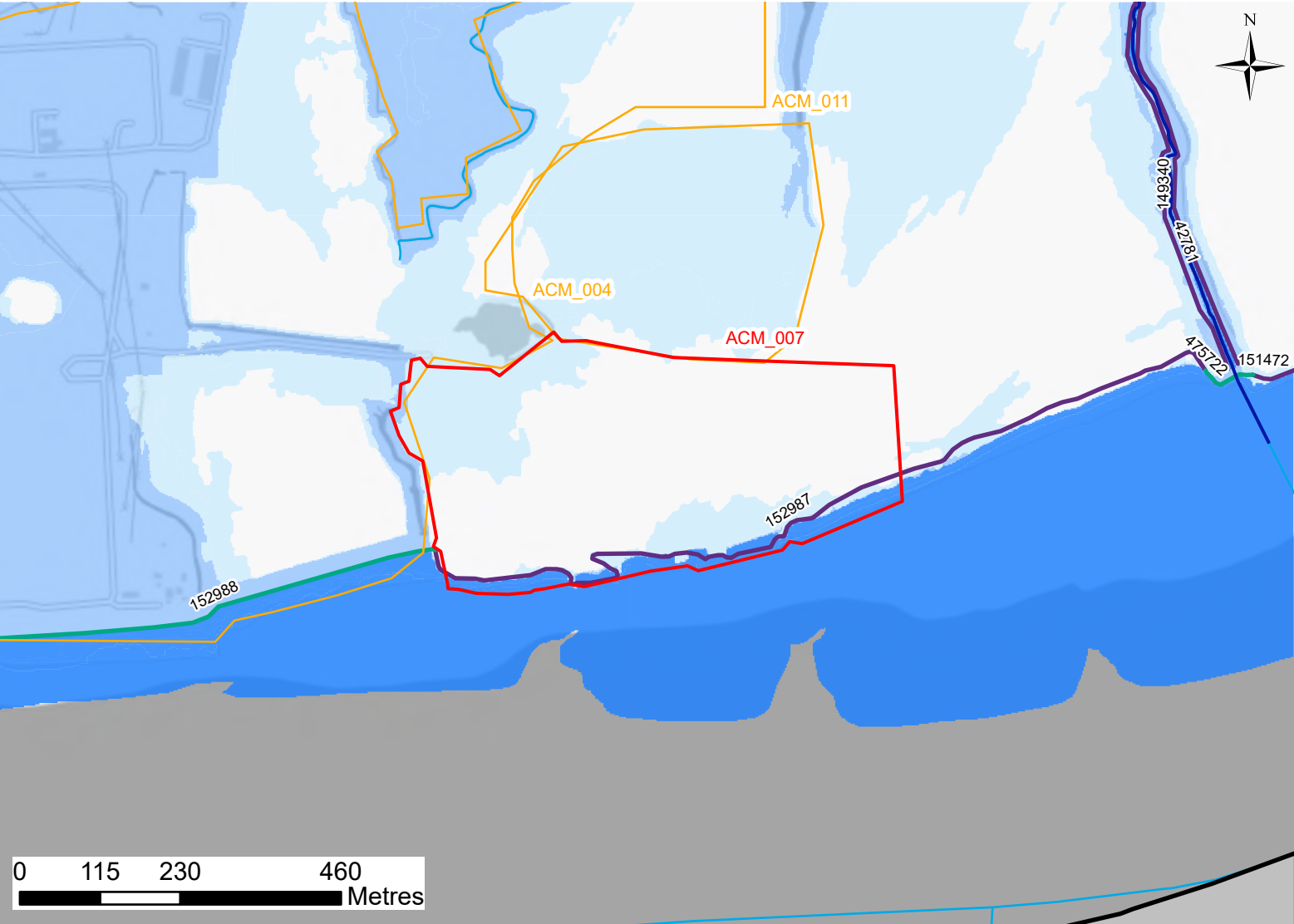
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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 Thanet Sand Formation	
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: 2.761mAOD	FROM BREACH LOCATION: MAR
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_007	THURROCK REF: 60862	NEIGHBOURHOOD: East Tilbury
SITE NAME: Land at Goshem's Farm East Tilbury		SITE AREA: 20.36 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	68.27%	Flood Zone 2 (0.1% AEP):	23.99%
Flood Zone 3a (1% AEP):	0.98%	Flood Zone 3b (defined in SFRA report):	6.76%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 50.43%			
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*: 143.24m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120			
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*: 48.86%			
SURFACE WATER FLOODING			
0.1% AEP:	1.21%	1% AEP:	5.89%
3.33%:	14.13%		
0.1% AEP + 40% Climate Change:	1.65%	1% AEP + 40% Climate Change:	2.49%
3.33% AEP + 40% Climate Change:	18.12%		

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

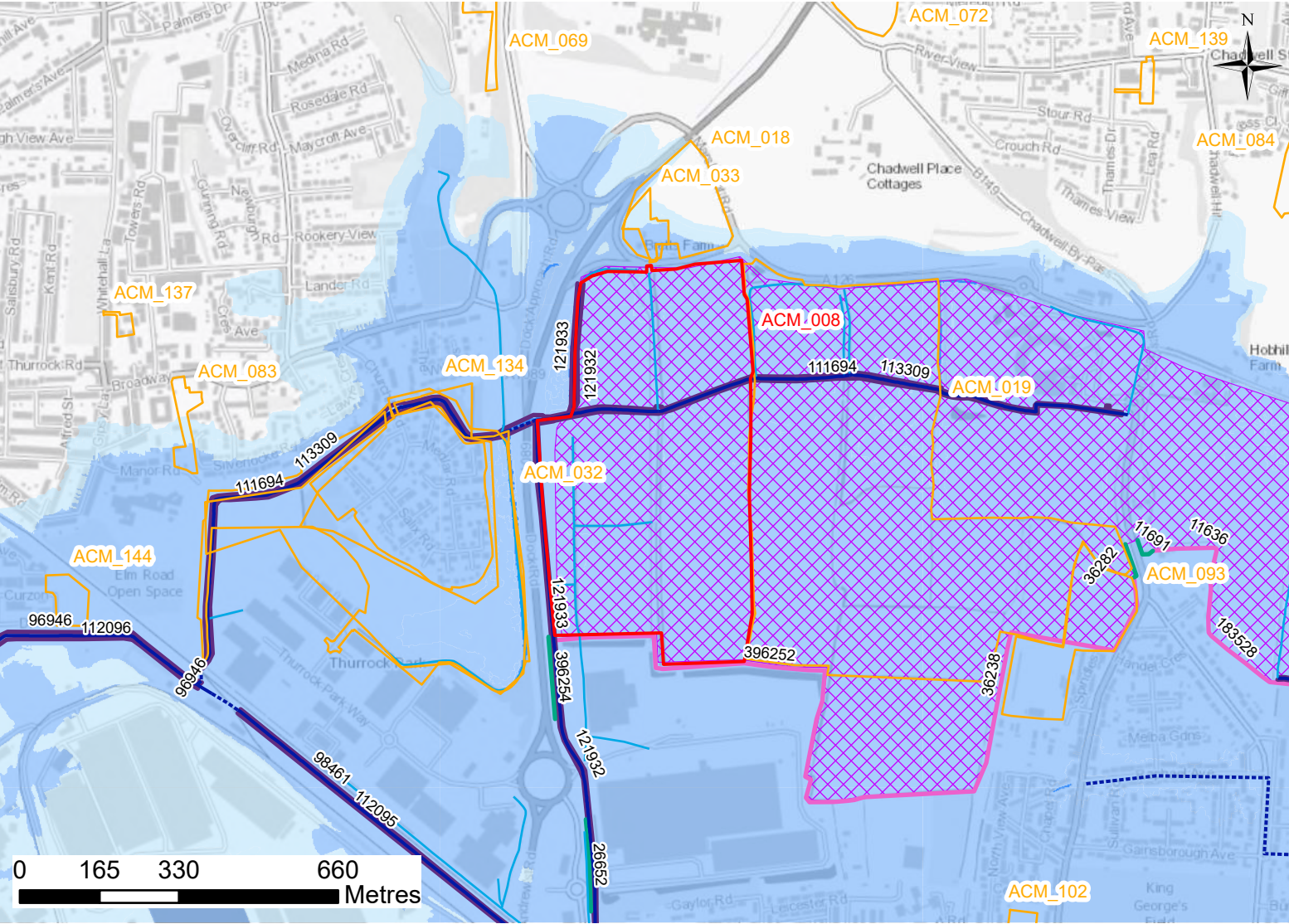
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: 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: 6.243mAOD	
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_008	THURROCK REF: 60864	NEIGHBOURHOOD: Tilbury St Chads
SITE NAME: Land east of Dock Road and south of Marshfoot Road		SITE AREA: 31.23 ha



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

VULNERABILITY CLASSIFICATION: Less 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):	4%	Flood Zone 3b (defined in SFRA report):	96%
% 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*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77, RM18 8:120, RM18 7:46, RM16 4:65			
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:	8.58%	1% AEP:	13.1%
3.33%:	22.41%		
0.1% AEP + 40% Climate Change:	8.73%	1% AEP + 40% Climate Change:	7.71%
3.33% AEP + 40% Climate Change:	31.15%		

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 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: 2.150mAOD	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:	2.32%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%

AECOM REF: ACM_009	THURROCK REF: 60869	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Former Paper Mills Site, London Road, Purfleet		SITE AREA: 4.17 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0.01%	Flood Zone 2 (0.1% AEP):	2.15%
		Flood Zone 3a (1% AEP):	97.83%
		Flood Zone 3b (defined in SFRA report):	0.01%
% 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*: 217.94m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM19 1:68			
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:	0.31%	1% AEP:	2.96%
		3.33%:	14.72%
0.1% AEP + 40% Climate Change:	6.2%	1% AEP + 40% Climate Change:	0.98%
		3.33% AEP + 40% Climate Change:	16.79%

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

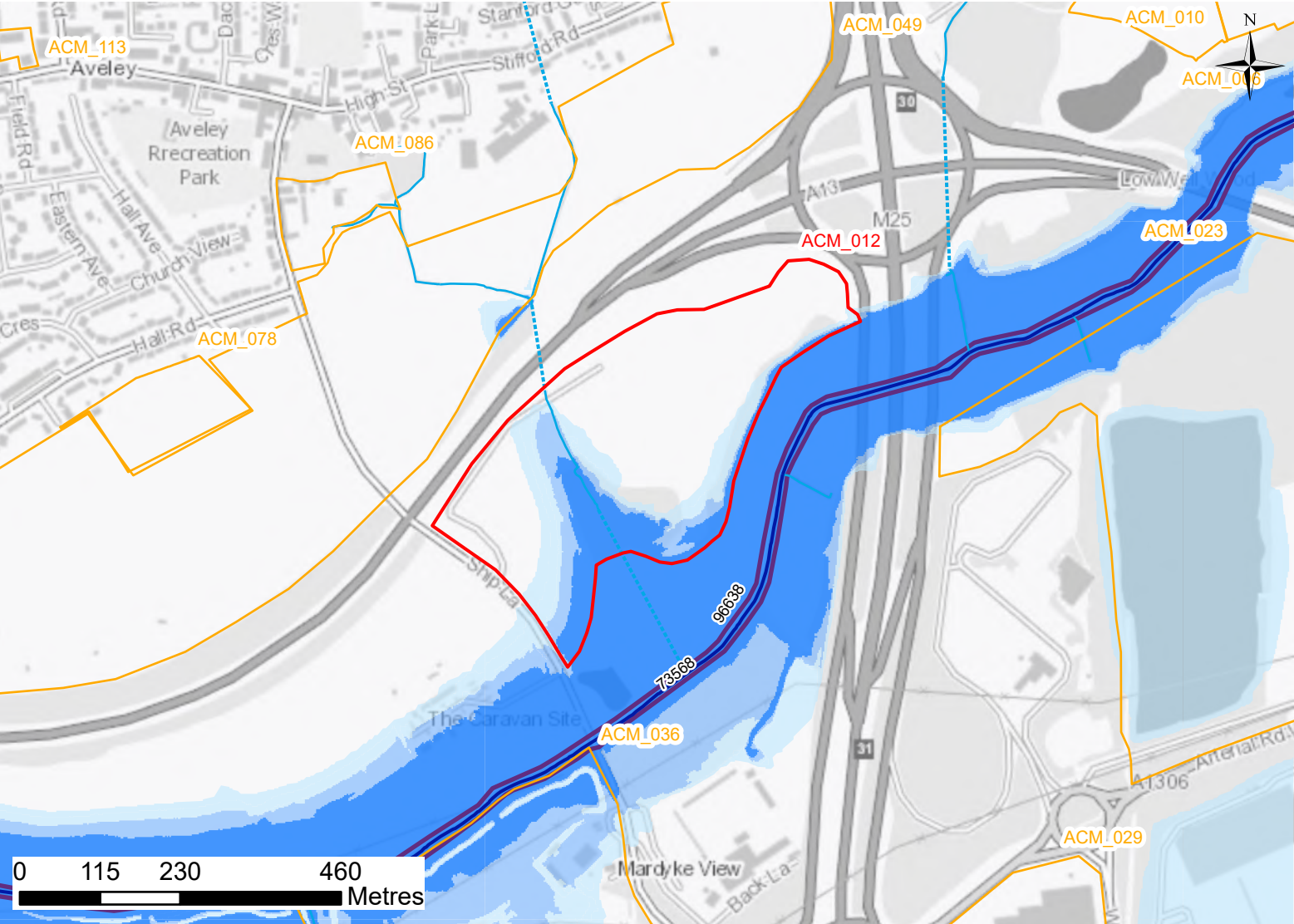
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Very significant constraints are indicated	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.205mAOD	FROM BREACH LOCATION: PUR003
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_012	THURROCK REF: 60880	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Land East of Ship Lane, Aveley		SITE AREA: 14.71 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	62.17%	Flood Zone 2 (0.1% AEP):	15.44%
Flood Zone 3a (1% AEP):	7.97%	Flood Zone 3b (defined in SFRA report):	14.42%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 49.43%			
FLOOD WARNING AREA(S): The Mardyke from North Stifford to Purfleet-on-Thames			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 4:72, RM19 1:68			
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*: 19.08%			
SURFACE WATER FLOODING			
0.1% AEP:	2.28%	1% AEP:	1.75%
3.33%:	7.72%		
0.1% AEP + 40% Climate Change:	1.77%	1% AEP + 40% Climate Change:	2.24%
3.33% AEP + 40% Climate Change:	8.72%		

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

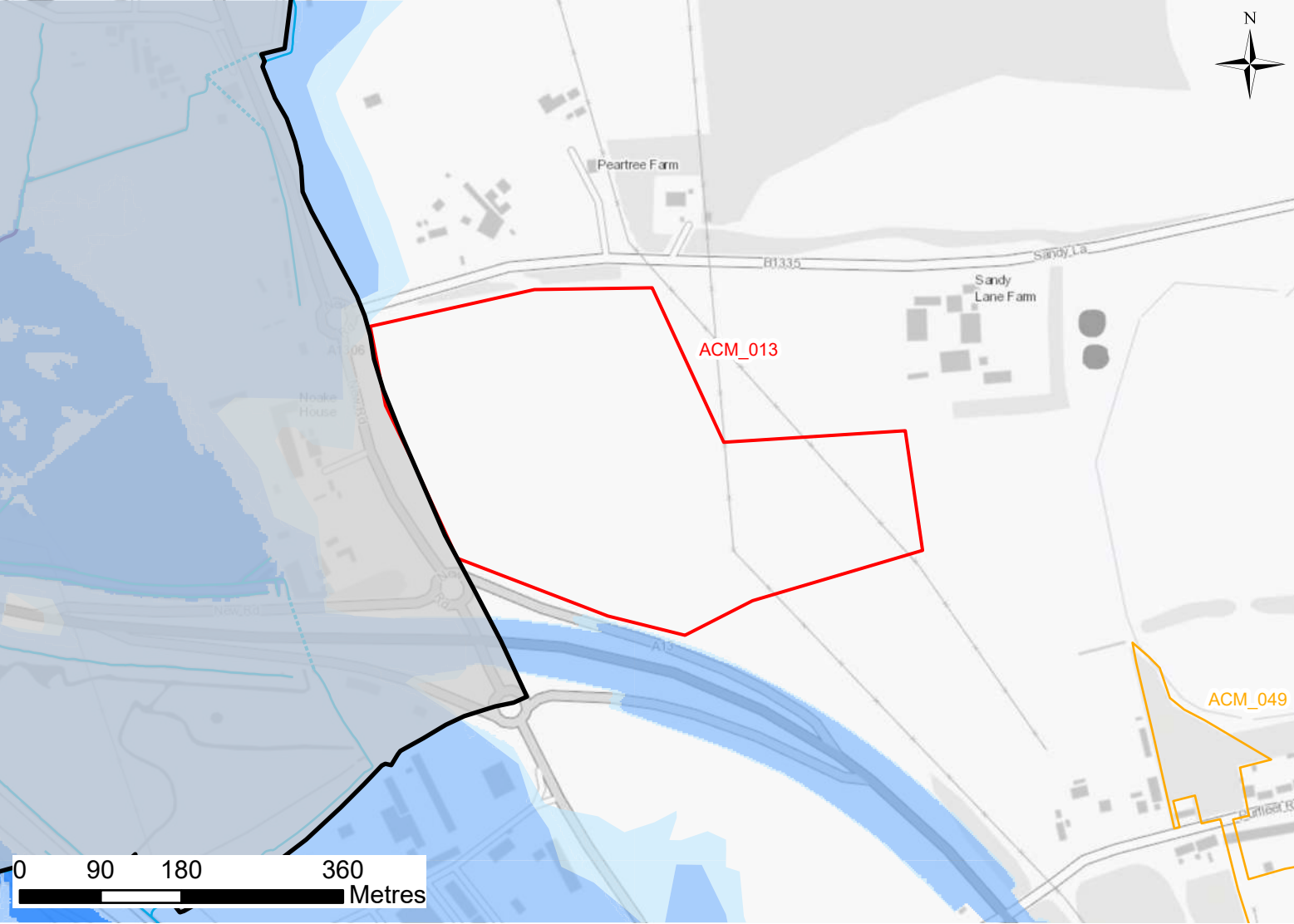
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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:
0.6%	6.44%

AECOM REF: ACM_013	THURROCK REF: 60881	NEIGHBOURHOOD: Aveley and Uplands
SITE NAME: Sandy Lane		SITE AREA: 14.65 ha



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

VULNERABILITY CLASSIFICATION: Less 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: 0.08%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 81.6m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM15 4:72, RM13 9:0			
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%			
SURFACE WATER FLOODING			
0.1% AEP:	2.2%	1% AEP:	1.01%
		3.33%:	1.61%
0.1% AEP + 40% Climate Change:	2.01%	1% AEP + 40% Climate Change:	1.36%
		3.33% AEP + 40% Climate Change:	2.1%

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

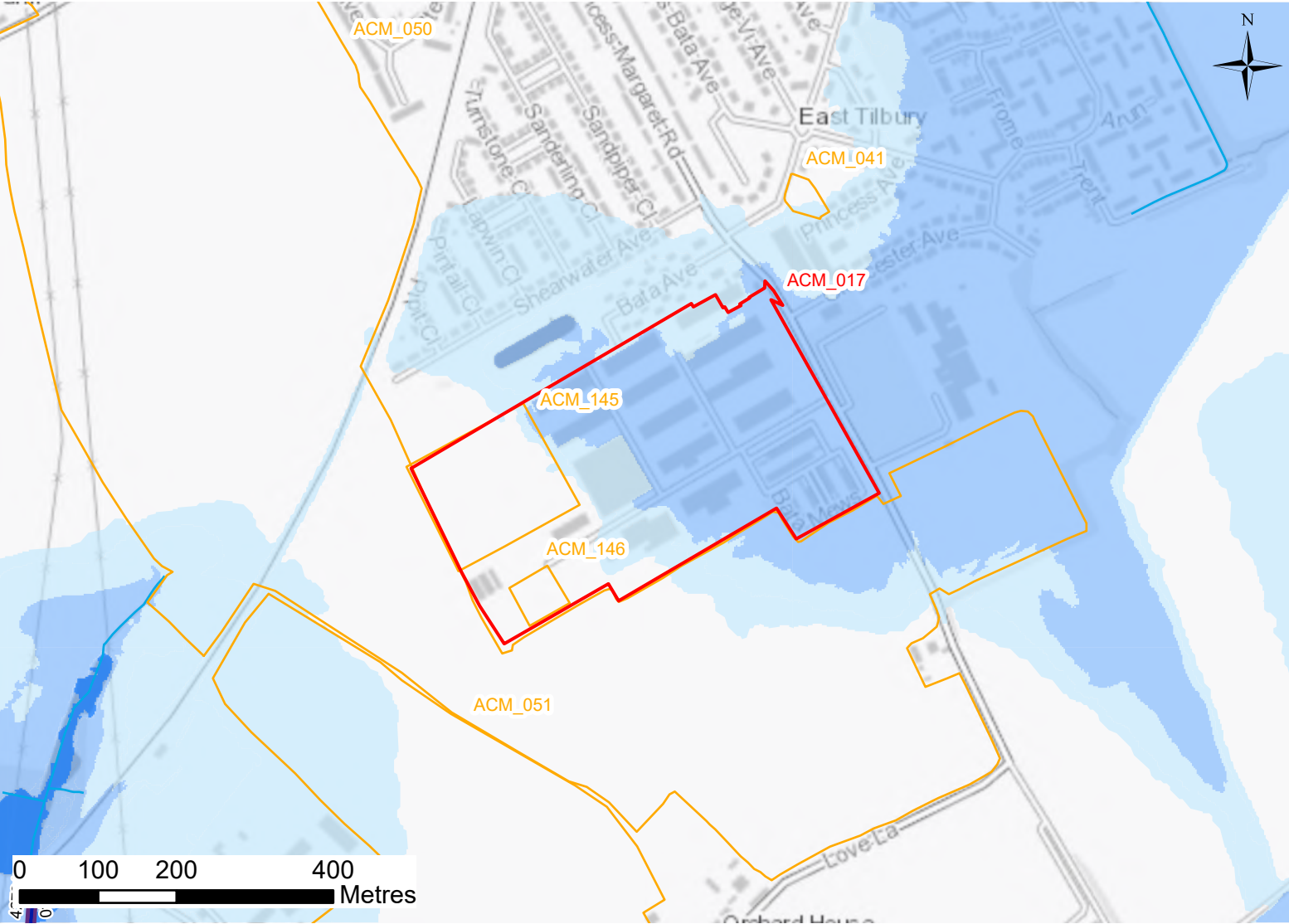
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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, 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:
0%	0%

AECOM REF: ACM_017	THURROCK REF: 60929	NEIGHBOURHOOD: East Tilbury
SITE NAME: Thames Industrial Park		SITE AREA: 14.34 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	31.1%	Flood Zone 2 (0.1% AEP):	15.95%
Flood Zone 3a (1% AEP):	52.95%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 96.31%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 343.33m			
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*: 89.6%			
SURFACE WATER FLOODING			
0.1% AEP:	3.25%	1% AEP:	14.68%
3.33%:	23.44%		
0.1% AEP + 40% Climate Change:	8.84%	1% AEP + 40% Climate Change:	5.53%
3.33% AEP + 40% Climate Change:	33.22%		

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

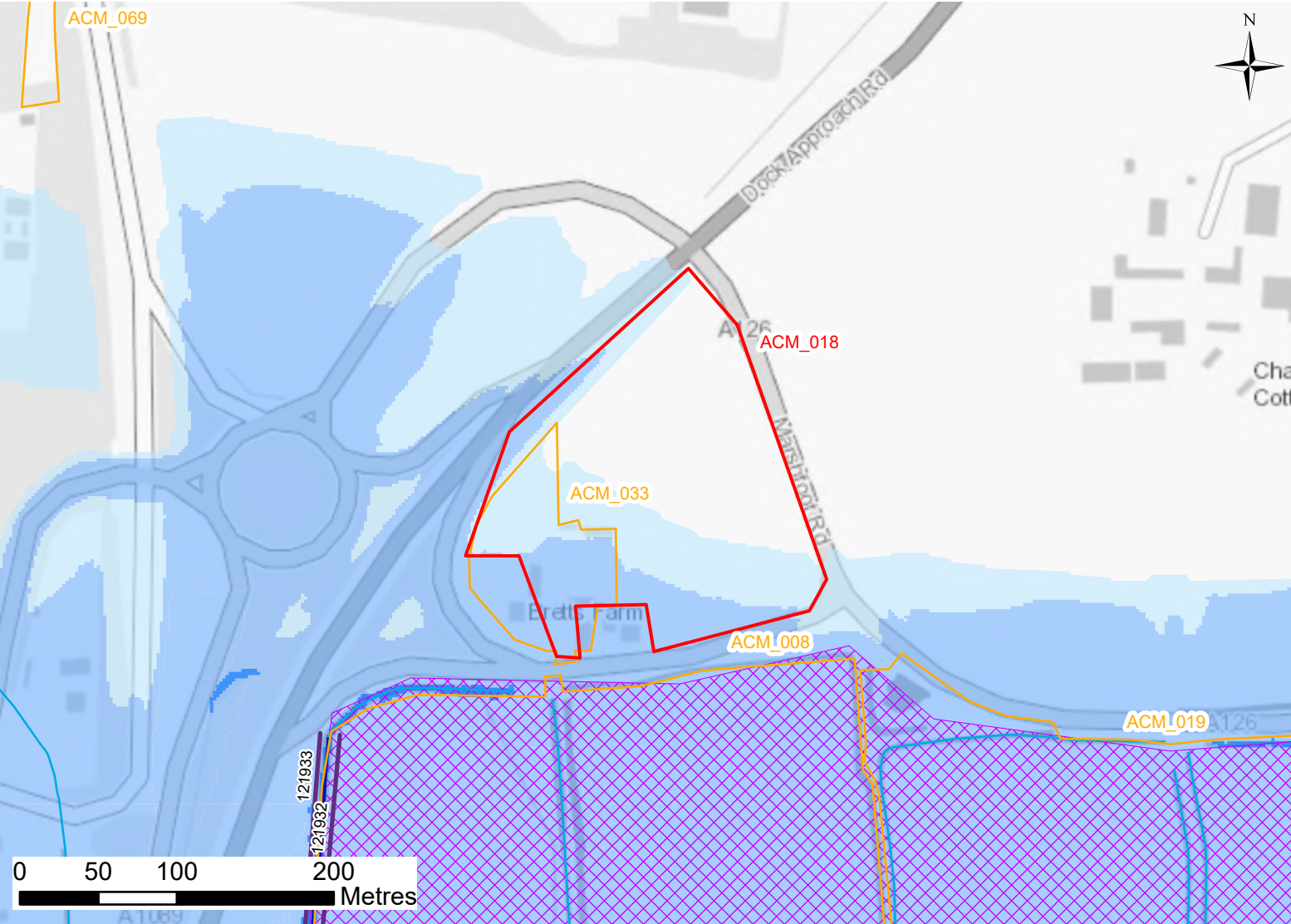
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 5.661mAOD	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%

AECOM REF: ACM_018	THURROCK REF: 60943	NEIGHBOURHOOD: Chadwell St Mary
SITE NAME: Site south of Dock Approach Road and east of Bretts Farms		SITE AREA: 3.32 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	48.12%	Flood Zone 2 (0.1% AEP):	31.98%
Flood Zone 3a (1% AEP):	19.9%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 77.81%			
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*: 27.29m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77, RM16 4:65			
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*: 77.81%			
SURFACE WATER FLOODING			
0.1% AEP:	0%	1% AEP:	1.45%
3.33%:	10.55%		
0.1% AEP + 40% Climate Change:	0.01%	1% AEP + 40% Climate Change:	0.46%
3.33% AEP + 40% Climate Change:	11.54%		

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: 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: 2.152mAOD	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:
0%	0%

VULNERABILITY CLASSIFICATION: Less 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):	1%
			Flood Zone 3b (defined in SFRA report): 99%
% 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*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM18 8:120, RM16 4:65, RM17 6:77, 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: 4.05%	1% AEP: 18.23%		3.33%: 22.55%
0.1% AEP + 40% Climate Change: 3.9%	1% AEP + 40% Climate Change: 6.61%		3.33% AEP + 40% Climate Change: 35.61%

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

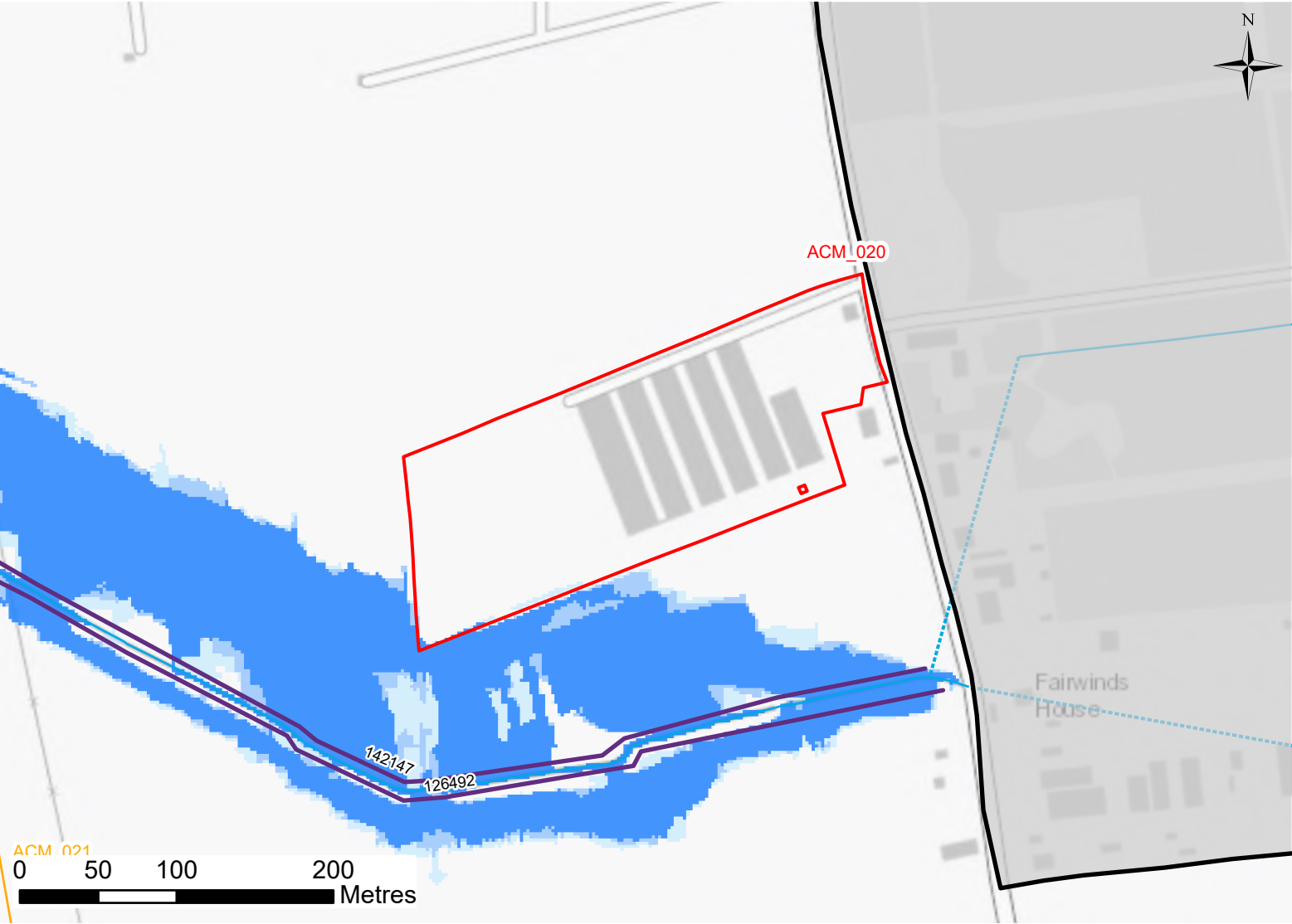
 Flood Zone 3b
 Flood Zone 3a
 Flood Zone 2

- 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 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 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: 2.150mAOD	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: 1.43%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_020	THURROCK REF: 60968	NEIGHBOURHOOD: Orsett
SITE NAME: Red House Farm		SITE AREA: 3.7 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	99.12%	Flood Zone 2 (0.1% AEP):	0.54%
		Flood Zone 3a (1% AEP):	0.08%
		Flood Zone 3b (defined in SFRA report):	0.26%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 1.29%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: 76.47m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS16 6:61			
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*: 0.37%			
SURFACE WATER FLOODING			
0.1% AEP:	10.81%	1% AEP:	6.44%
		3.33%:	15.02%
0.1% AEP + 40% Climate Change:	16.96%	1% AEP + 40% Climate Change:	3.16%
		3.33% AEP + 40% Climate Change:	20.44%

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

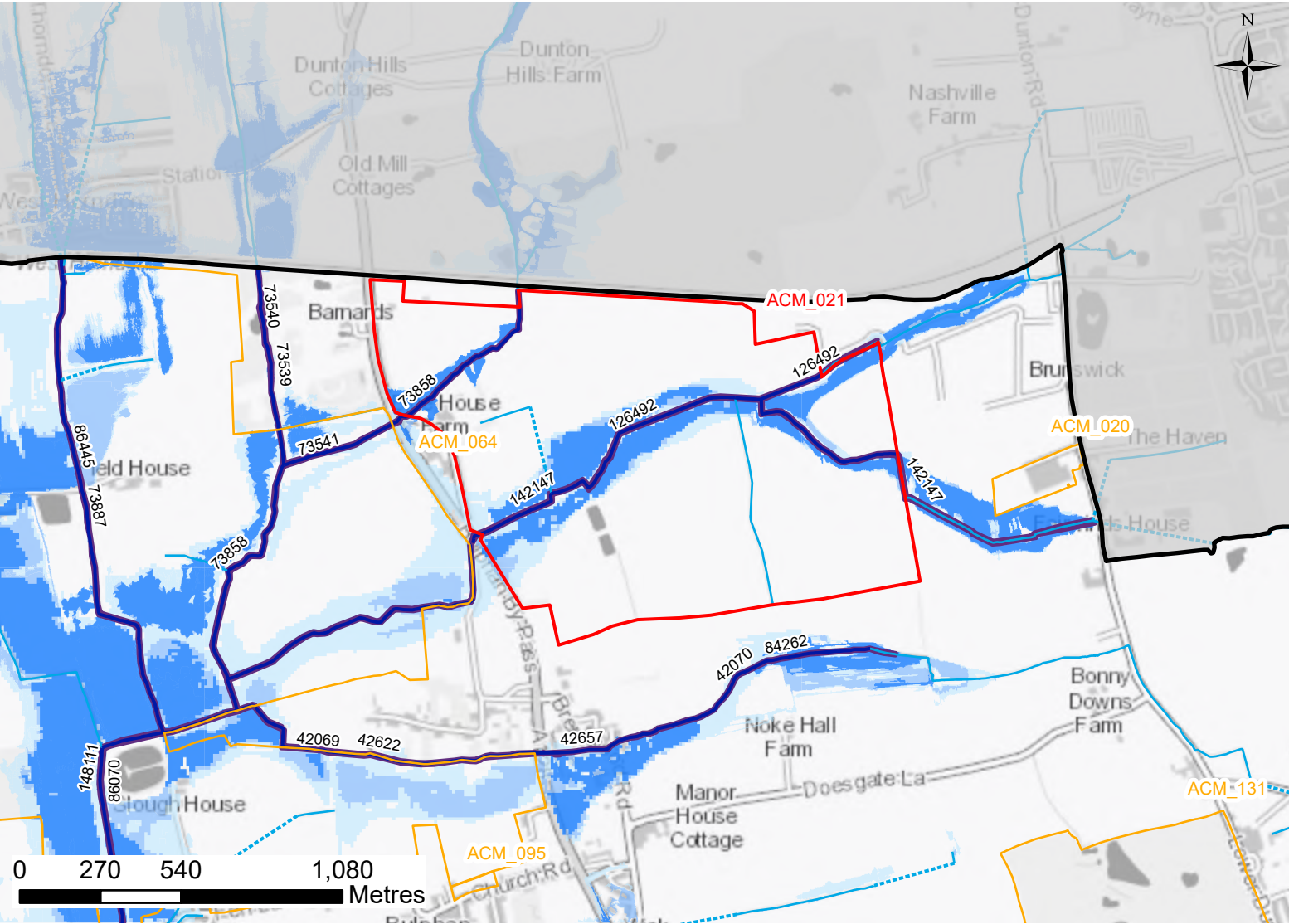
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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, 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_021	THURROCK REF: 60969	NEIGHBOURHOOD: Orsett
SITE NAME: Land at Blue House Farm		SITE AREA: 154.06 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	79.85%	Flood Zone 2 (0.1% AEP):	5.49%
Flood Zone 3a (1% AEP):	1.85%	Flood Zone 3b (defined in SFRA report):	12.81%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 22.03%			
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, SS16 6:61			
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*: 15.26%			
SURFACE WATER FLOODING			
0.1% AEP:	7.33%	1% AEP:	3.59%
3.33%:	8.04%		
0.1% AEP + 40% Climate Change:	8.36%	1% AEP + 40% Climate Change:	3.68%
3.33% AEP + 40% Climate Change:	10.25%		

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

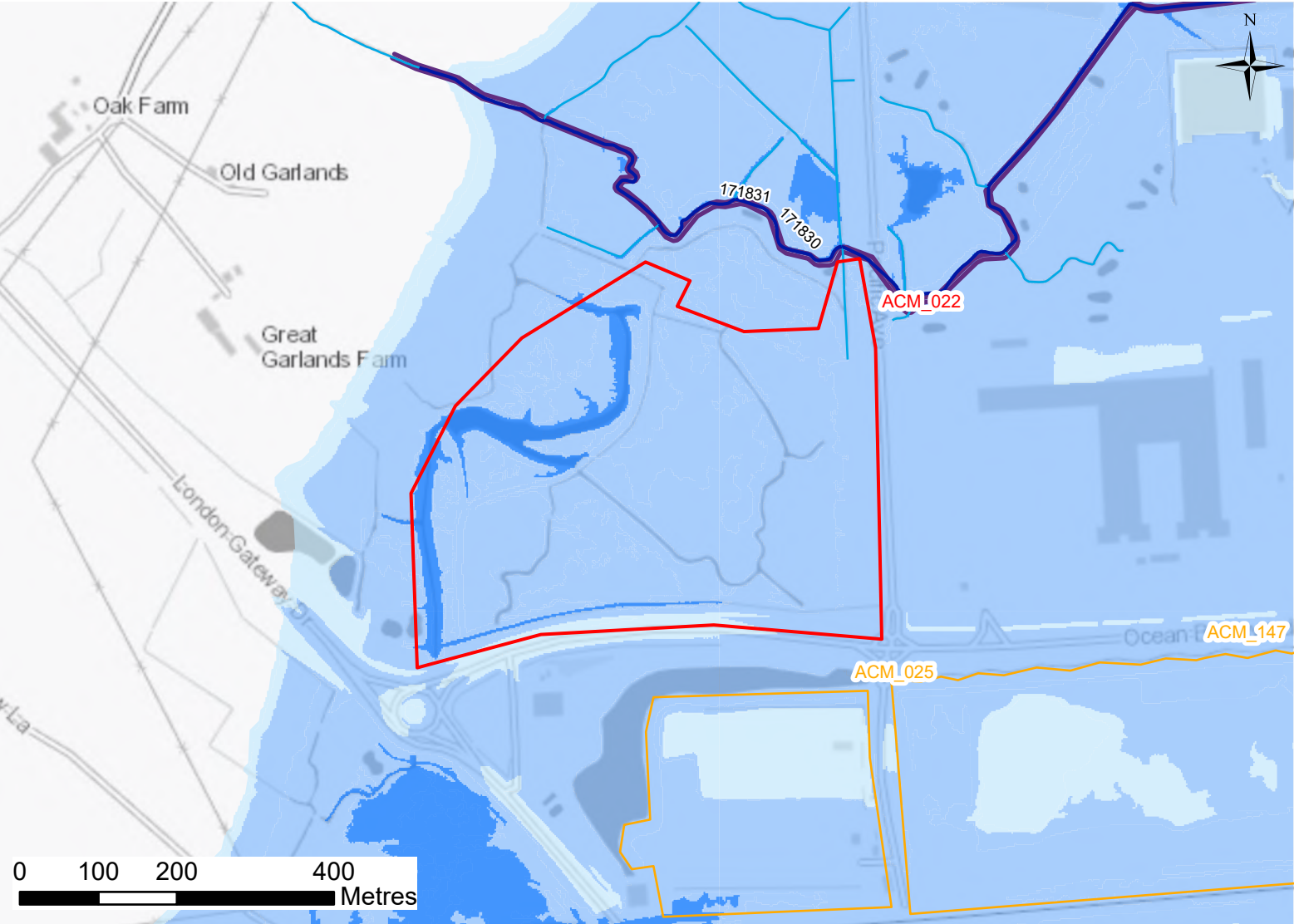
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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_022	THURROCK REF: 60976	NEIGHBOURHOOD: Stanford-le-Hope West
SITE NAME: Land at Great Garlands Farm		SITE AREA: 23.34 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	2.04%
		Flood Zone 3a (1% AEP):	90.14%
		Flood Zone 3b (defined in SFRA report):	7.82%
% 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*: Flows across site			
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:	48.59%	1% AEP:	11.71%
		3.33%:	9.29%
0.1% AEP + 40% Climate Change:	34.99%	1% AEP + 40% Climate Change:	26.43%
		3.33% AEP + 40% Climate Change:	15.28%

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

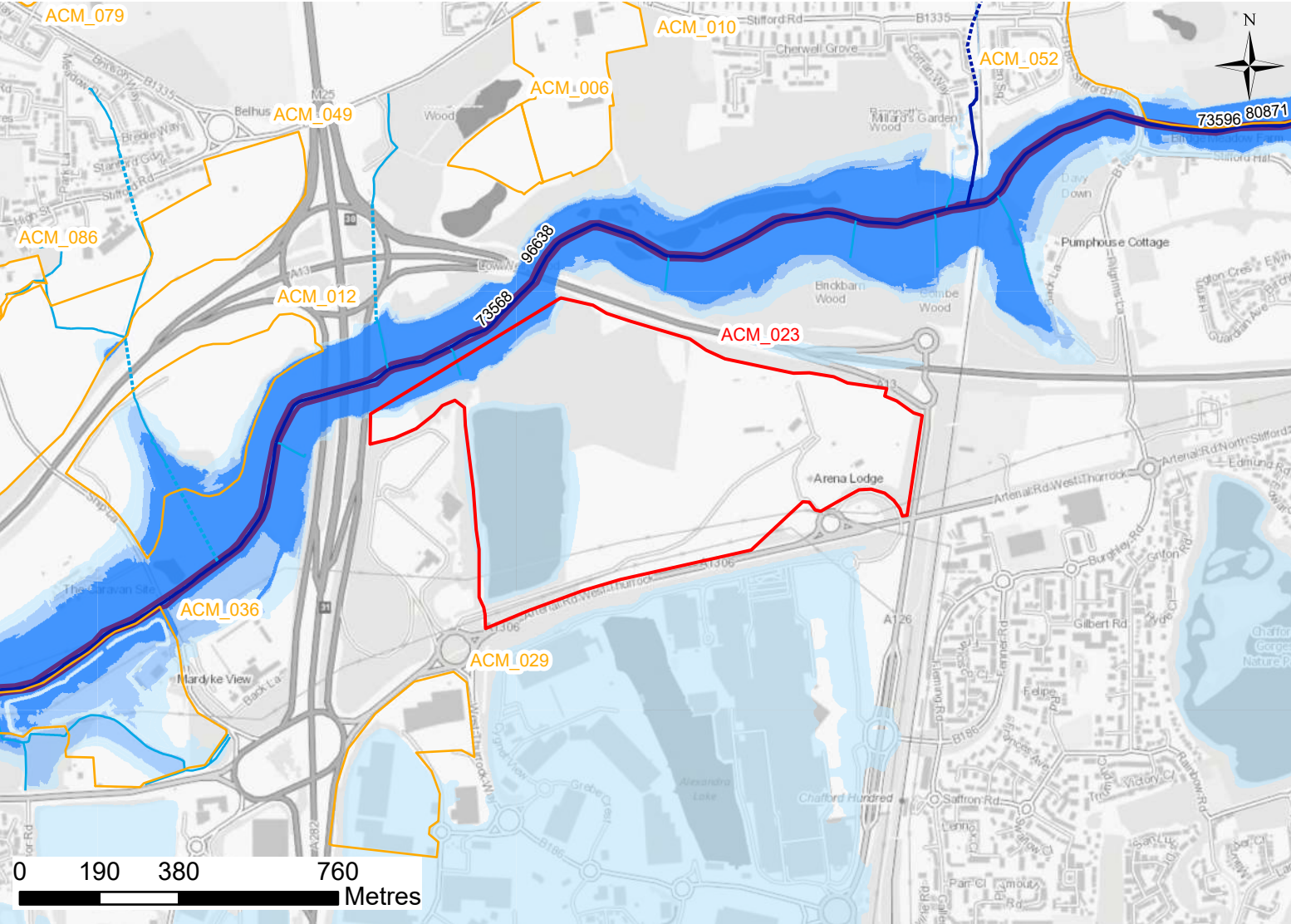
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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 and River Terrace Deposits (Undifferentiated)	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.137mAOD	FROM BREACH LOCATION: FOB001
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_023	THURROCK REF: 60981	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Land South of A13 and North of A1306 Arterial Road West Thurrock		SITE AREA: 54.82 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	76.23%	Flood Zone 2 (0.1% AEP):	20.27%
		Flood Zone 3a (1% AEP):	0.61%
		Flood Zone 3b (defined in SFRA report):	2.89%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 24.16%			
FLOOD WARNING AREA(S): The Thames estuary from Grays to Purfleet-on-Thames, including West Thurrock and the Mardyke from North Stifford to Purfleet-on-Thames			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM19 1:68, RM20 1:0, RM16 6:63, RM20 2:0			
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*: 3.45%			
SURFACE WATER FLOODING			
0.1% AEP:	1.29%	1% AEP:	1.92%
		3.33%:	25.86%
0.1% AEP + 40% Climate Change:	2.3%	1% AEP + 40% Climate Change:	0.97%
		3.33% AEP + 40% Climate Change:	27.14%

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

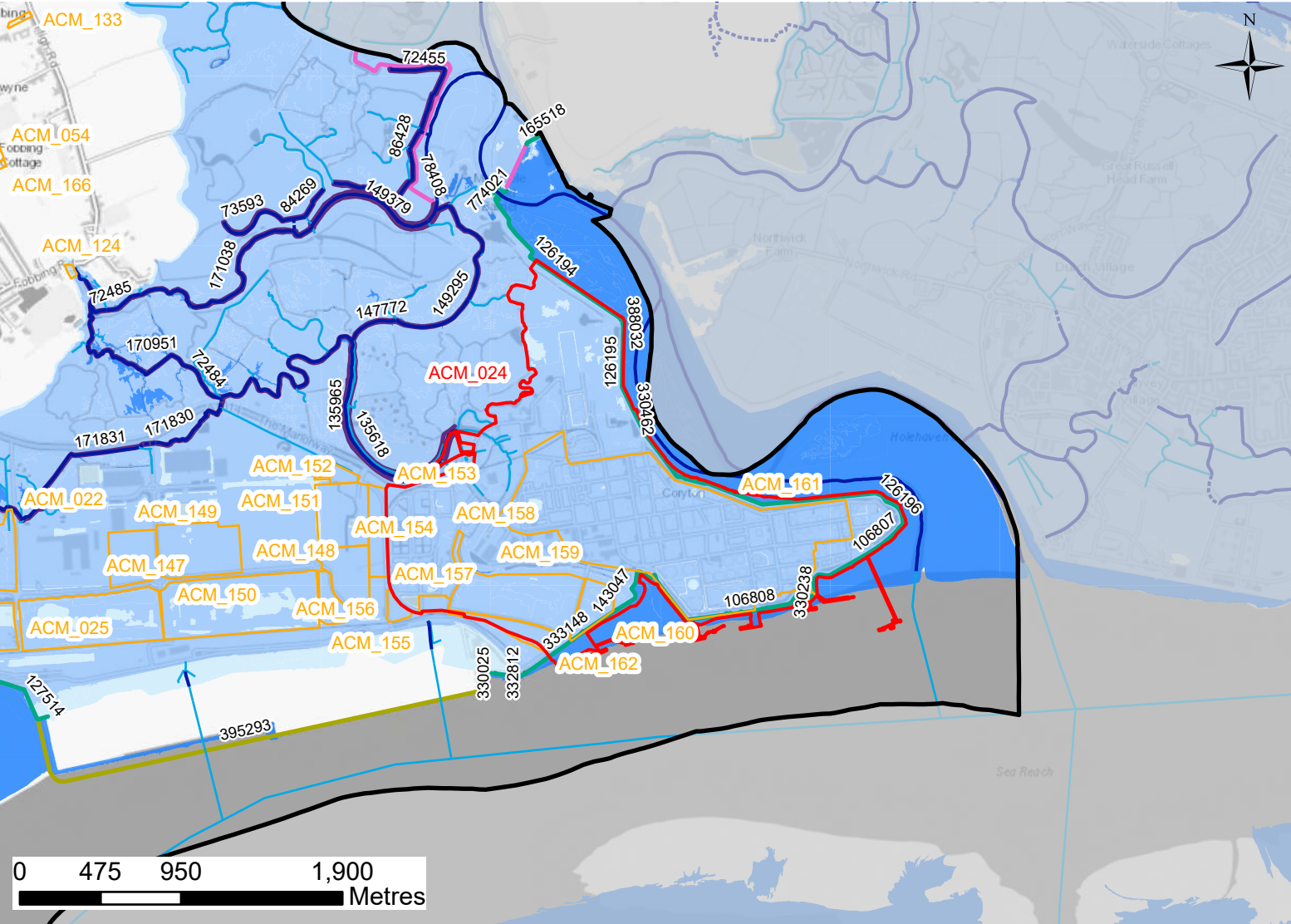
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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, Lambeth Group and White Chalk Subgroup	
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:	WHEN THERE IS ALSO FLOODING FROM RIVERS:
1.32%	2.61%

AECOM REF: ACM_024	THURROCK REF: 60984	NEIGHBOURHOOD: Corringham and Fobbing
SITE NAME: Thames Enterprise Park		SITE AREA: 312.27 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0.44%	Flood Zone 2 (0.1% AEP):	2.02%
		Flood Zone 3a (1% AEP):	94.08%
		Flood Zone 3b (defined in SFRA report):	3.46%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 99.56%			
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 9:28, SS8 0:0			
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*: 99.46%			
SURFACE WATER FLOODING			
0.1% AEP:	10.49%	1% AEP:	3.06%
		3.33%:	1.98%
0.1% AEP + 40% Climate Change:	12.91%	1% AEP + 40% Climate Change:	4.2%
		3.33% AEP + 40% Climate Change:	3.66%

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

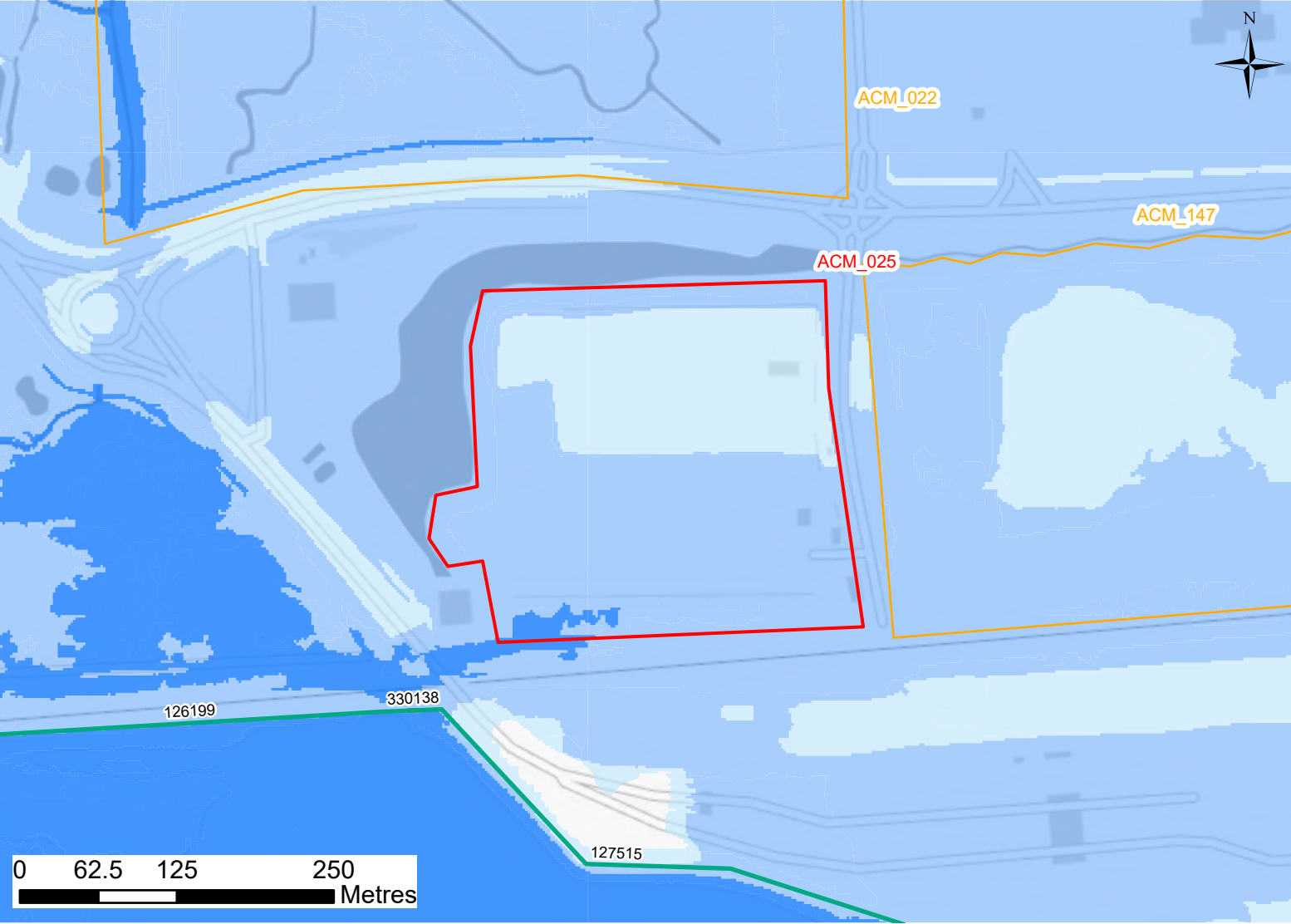
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 6.881mAOD	FROM BREACH LOCATION: FOB003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 6.420mAOD	
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_025	THURROCK REF: 60988	NEIGHBOURHOOD: Corringham and Fobbing
SITE NAME: Tongue Land, London Gateway		SITE AREA: 8.21 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	32.97%
		Flood Zone 3a (1% AEP):	65.32%
		Flood Zone 3b (defined in SFRA report):	1.71%
% 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*: 422.43m			
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:	14.6%	1% AEP:	3.98%
		3.33%:	2.08%
0.1% AEP + 40% Climate Change:	19.91%	1% AEP + 40% Climate Change:	4.83%
		3.33% AEP + 40% Climate Change:	4.48%

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

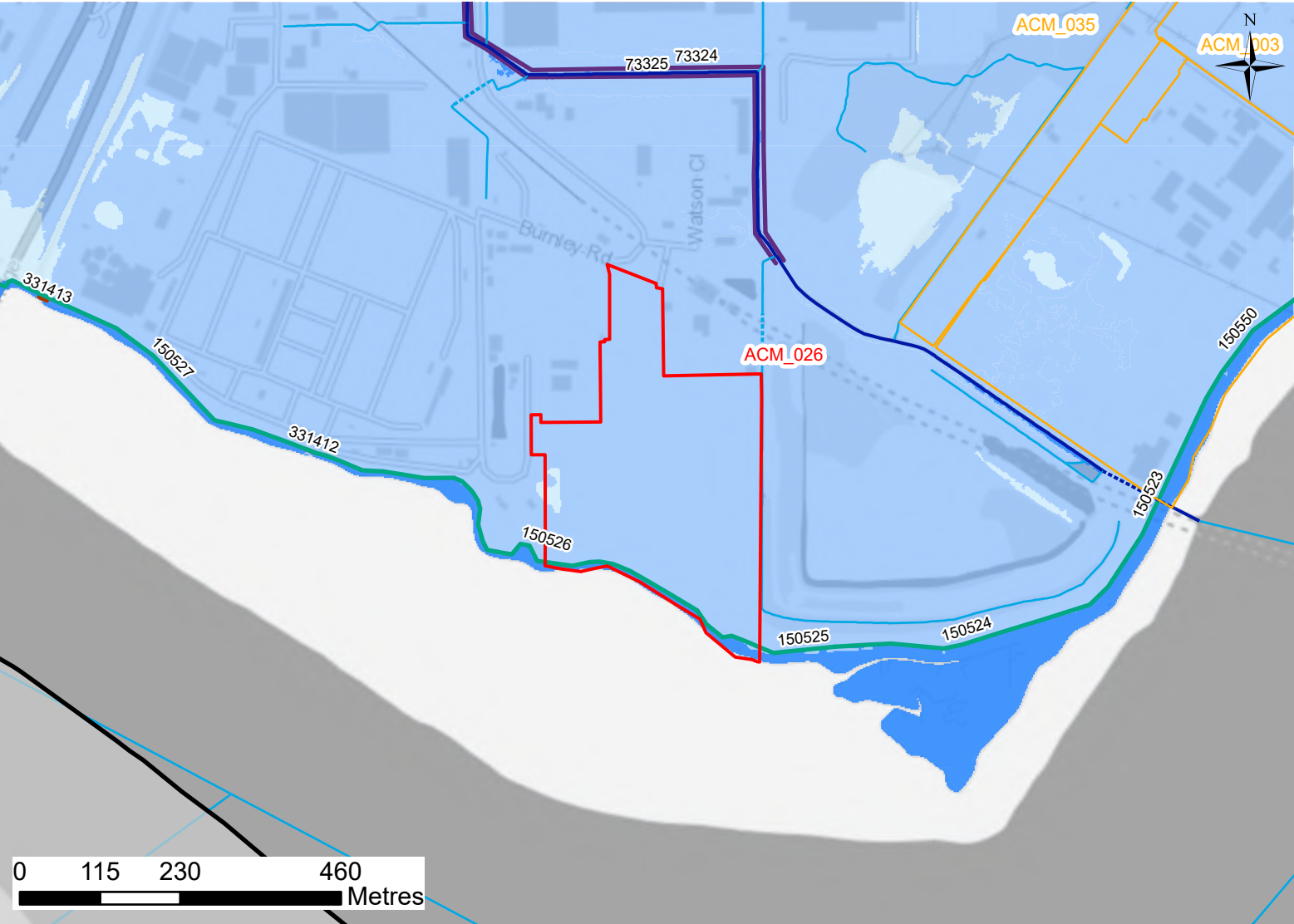
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.365mAOD	FROM BREACH LOCATION: FOB001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 3.073mAOD	
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_026	THURROCK REF: 60989	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Land off Burnley Road, West Thurrock, Essex, RM20 3ED		SITE AREA: 10.73 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0.27%	Flood Zone 2 (0.1% AEP):	0.87%
		Flood Zone 3a (1% AEP):	96.52%
		Flood Zone 3b (defined in SFRA report):	2.34%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 99.73%			
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*: 0.82m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM20 3:23			
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*: 99.73%			
SURFACE WATER FLOODING			
0.1% AEP:	0.39%	1% AEP:	4.03%
		3.33%:	9.37%
0.1% AEP + 40% Climate Change:	4.52%	1% AEP + 40% Climate Change:	2.06%
		3.33% AEP + 40% Climate Change:	11.53%

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

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

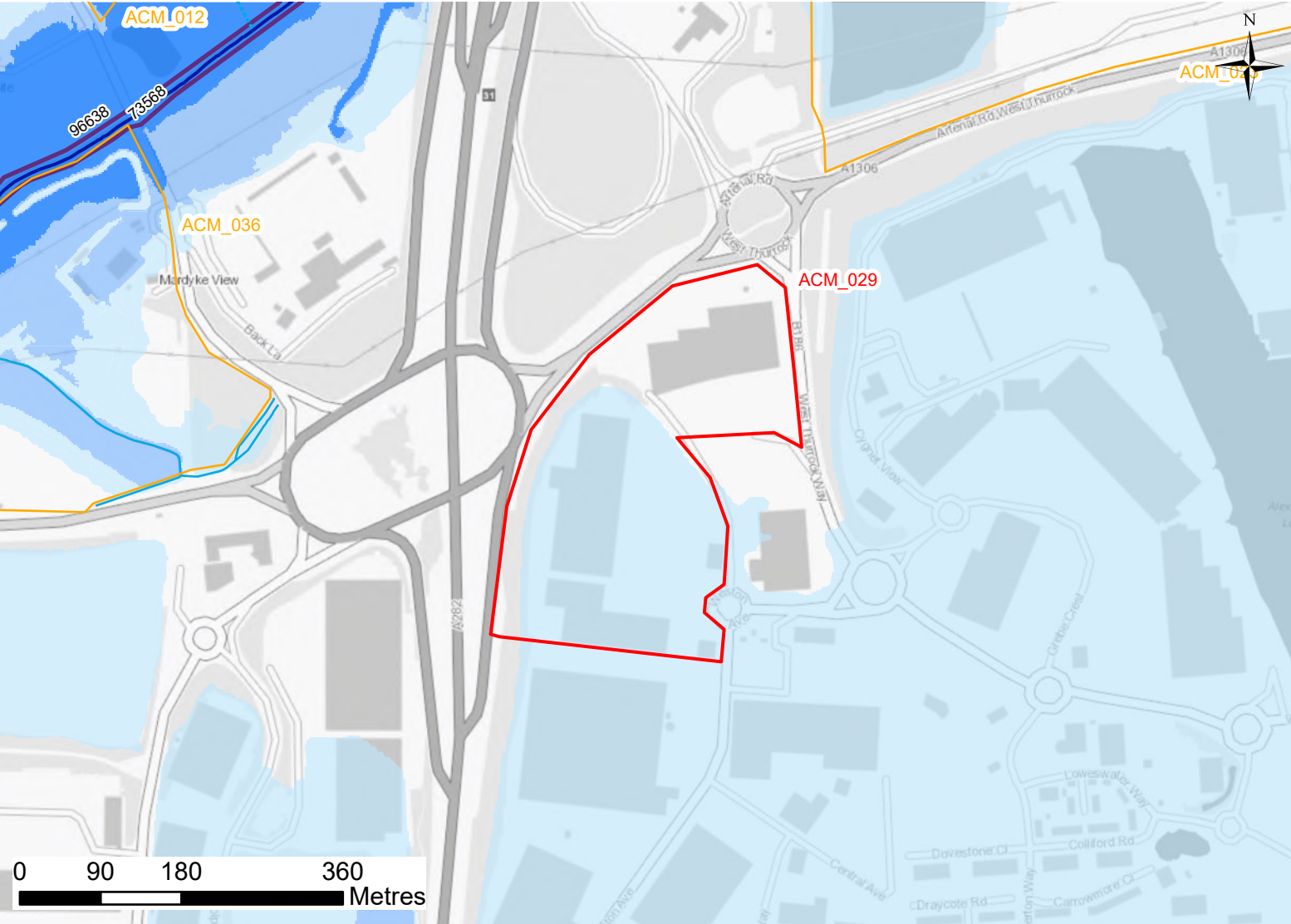
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 4.261mAOD	FROM BREACH LOCATION: PUR002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 2.132mAOD	
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_029	THURROCK REF: 61010	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Thurrock Shopping Park		SITE AREA: 9.46 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	42.49%	Flood Zone 2 (0.1% AEP):	57.51%
Flood Zone 3a (1% AEP):	0%	Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 57.94%			
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*: 277.02m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM20 3:23, RM20 1:0			
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*: 57.25%			
SURFACE WATER FLOODING			
0.1% AEP:	6.88%	1% AEP:	12.6%
3.33%:	39.65%		
0.1% AEP + 40% Climate Change:	8.46%	1% AEP + 40% Climate Change:	4.03%
3.33% AEP + 40% Climate Change:	50.49%		

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

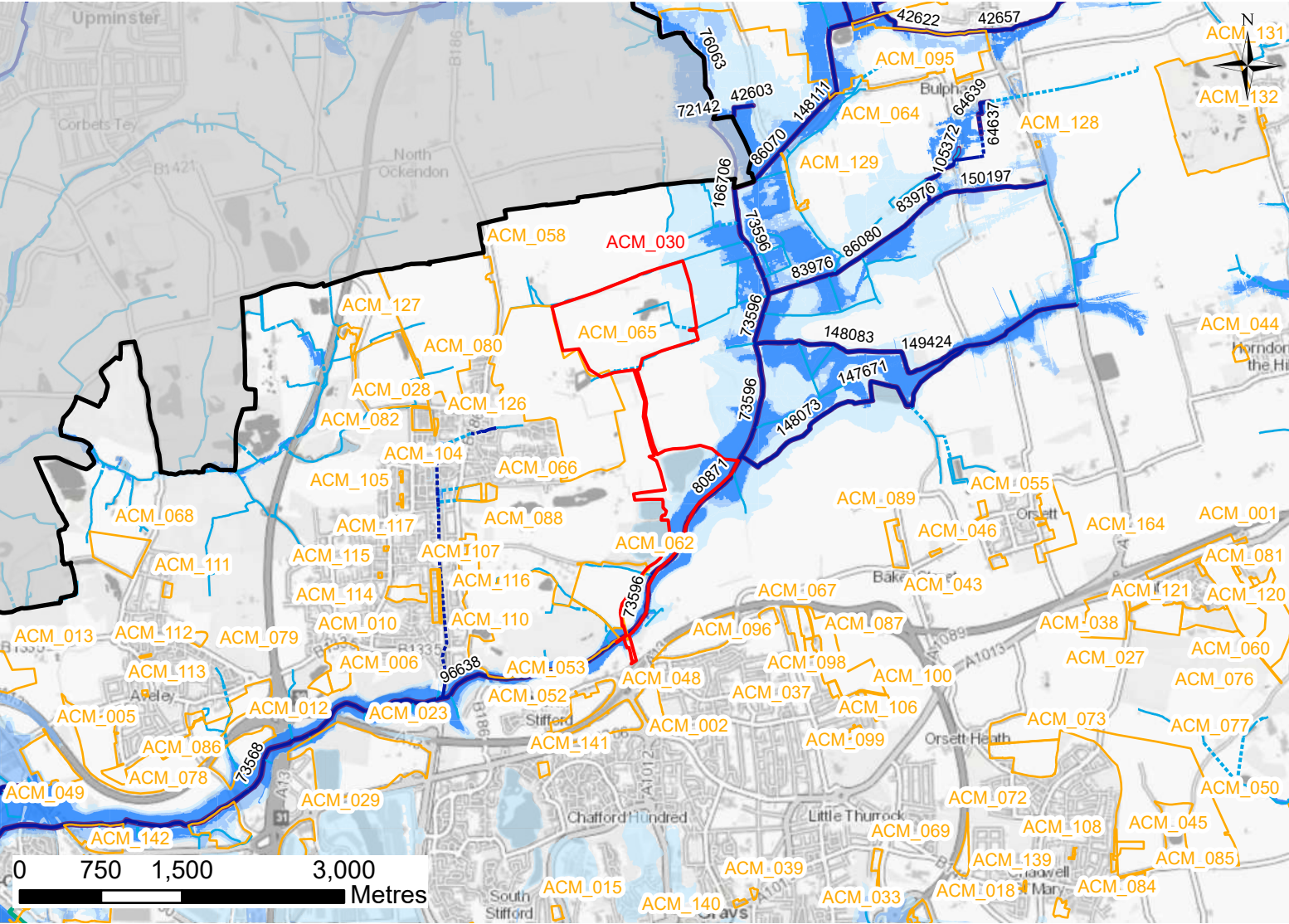
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: 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: 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_030	THURROCK REF: 61027	NEIGHBOURHOOD: Ockendon
SITE NAME: Medebridge Road, Grays, Essex, RM16 5TZ		SITE AREA: 142.91 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	63.6%	Flood Zone 2 (0.1% AEP):	21.48%
		Flood Zone 3a (1% AEP):	1.25%
		Flood Zone 3b (defined in SFRA report):	13.67%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 36.5%			
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.): RM15 6:19, RM14 3:29, RM16 3:19, RM16 5:4, RM16 2:32			
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*: 20.62%			
SURFACE WATER FLOODING			
0.1% AEP:	8.08%	1% AEP:	3.6%
		3.33%:	13.58%
0.1% AEP + 40% Climate Change:	8.71%	1% AEP + 40% Climate Change:	4.22%
		3.33% AEP + 40% Climate Change:	15.63%

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

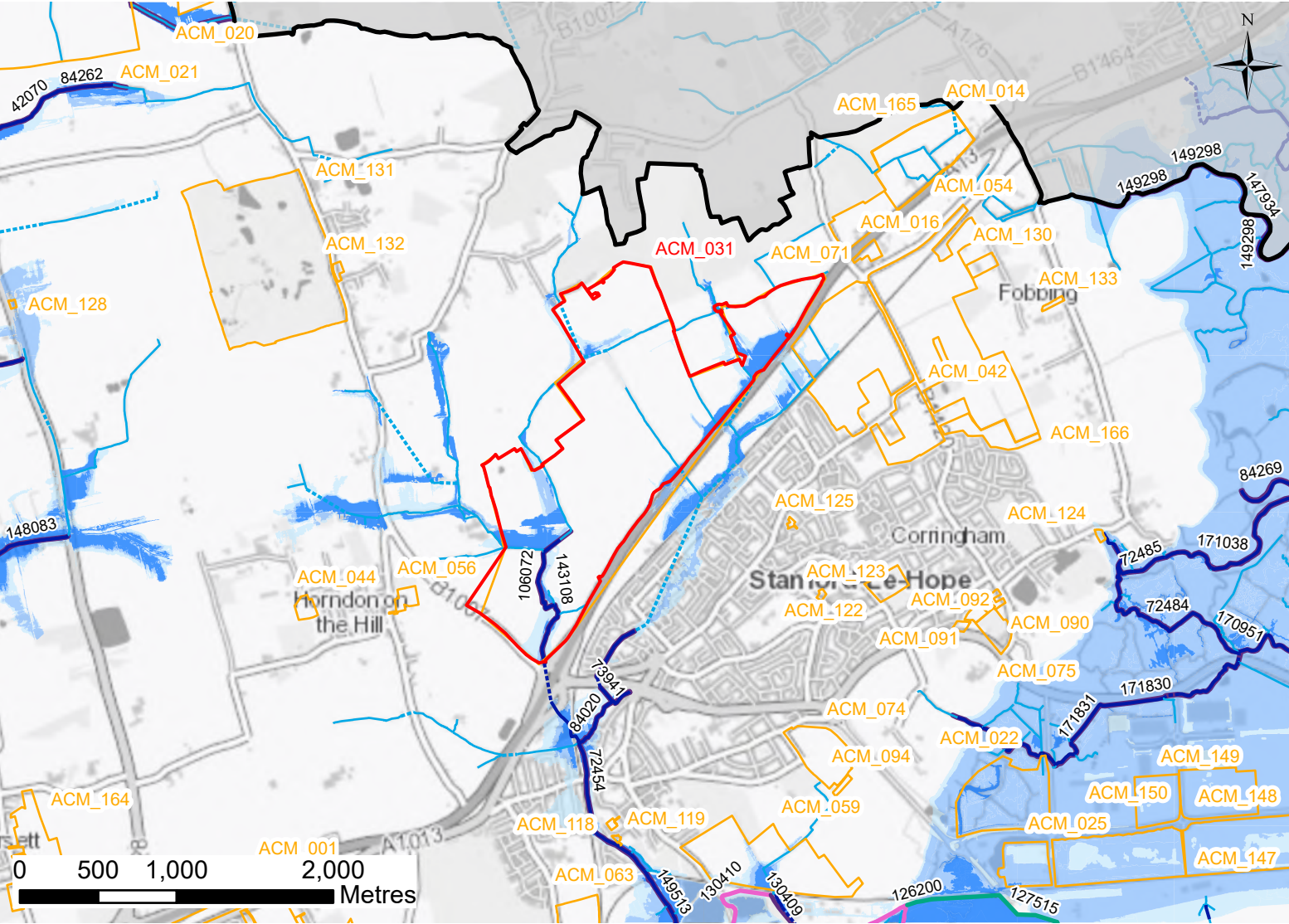
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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 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:
8.62%	14.68%

AECOM REF: ACM_031	THURROCK REF: 61029	NEIGHBOURHOOD: Orsett
SITE NAME: Land north of the A13		SITE AREA: 216.3 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	84.5%	Flood Zone 2 (0.1% AEP):	5.26%
		Flood Zone 3a (1% AEP):	2.9%
		Flood Zone 3b (defined in SFRA report):	7.34%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 16.62%			
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*: 10.94%			
SURFACE WATER FLOODING			
0.1% AEP:	10.84%	1% AEP:	3.88%
		3.33%:	12.55%
0.1% AEP + 40% Climate Change:	8.67%	1% AEP + 40% Climate Change:	6.86%
		3.33% AEP + 40% Climate Change:	15.41%

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

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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

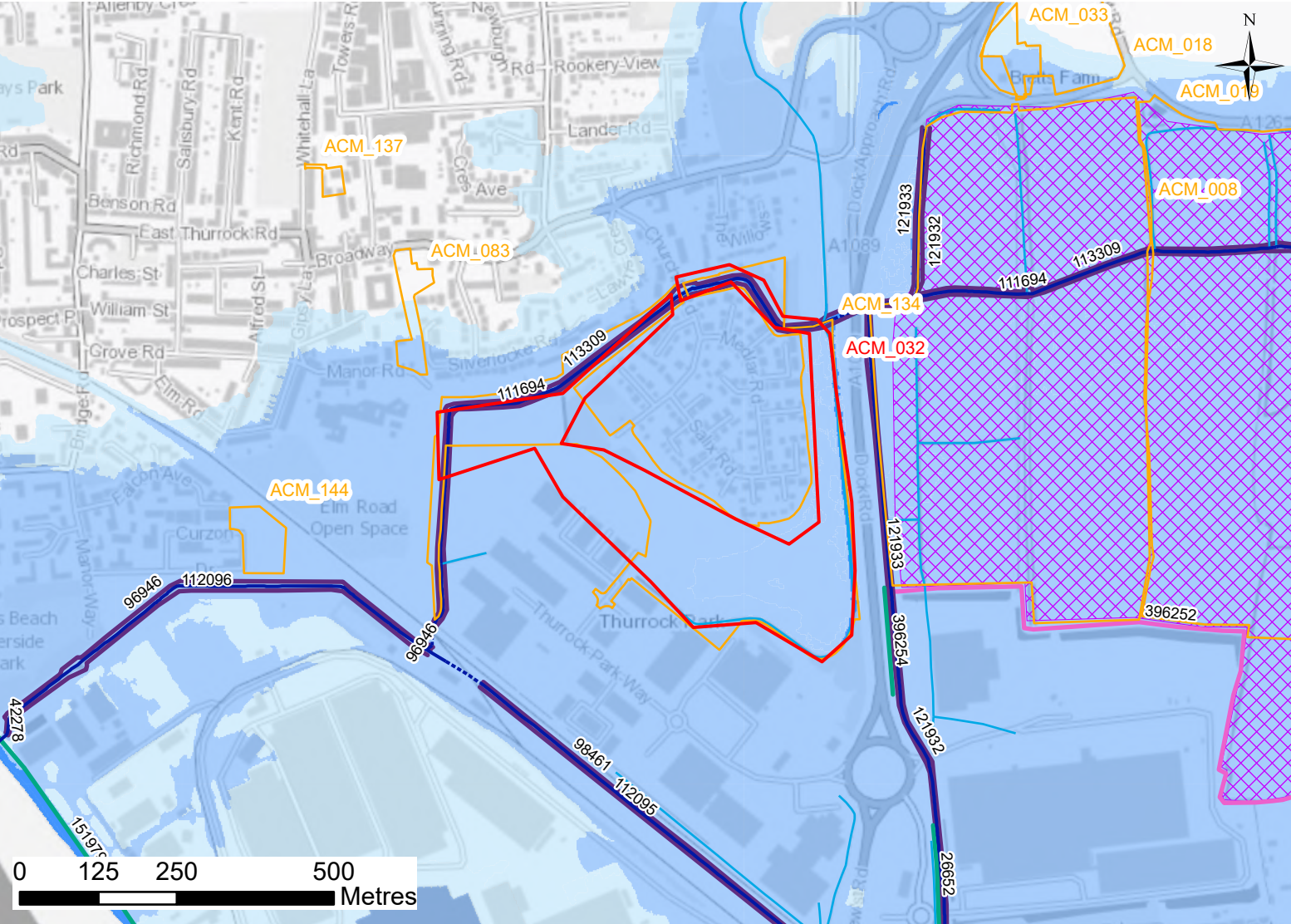
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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_032	THURROCK REF: 61053	NEIGHBOURHOOD: Tilbury Riverside and Thurrock Park
SITE NAME: Land at Little Thurrock located between Churchill Road and Thurrock Park Way, Grays		SITE AREA: 12.57 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: Less 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):	94.51%	Flood Zone 3b (defined in SFRA report):	5.49%
% 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:	6.73%	1% AEP:	29.8%
3.33%:	26.7%		
0.1% AEP + 40% Climate Change:	3.2%	1% AEP + 40% Climate Change:	7.37%
3.33% AEP + 40% Climate Change:	53.18%		

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:

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)

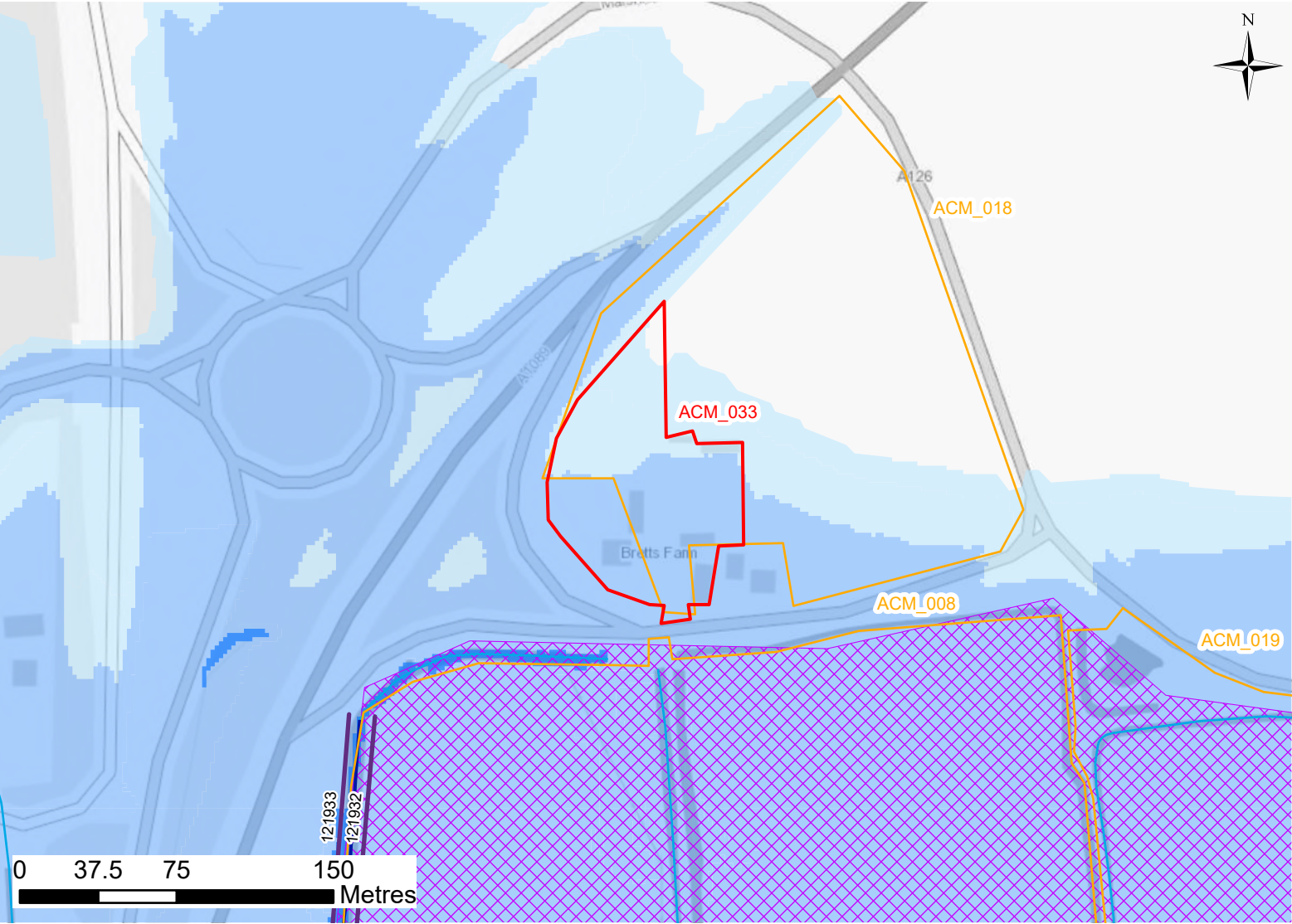
MAXIMUM WATER LEVEL: n/a

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:	94.36%	WHEN THERE IS ALSO FLOODING FROM RIVERS:	0%
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AECOM REF: ACM_033	THURROCK REF: 61054	NEIGHBOURHOOD: Chadwell St Mary
SITE NAME: Bretts Farm, Marshfoot Road, Grays, RM17 6HH		SITE AREA: 0.82 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	2.44%	Flood Zone 2 (0.1% AEP):	34.06%
		Flood Zone 3a (1% AEP):	63.5%
		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*: 21.87m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM17 6:77			
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:	0.04%	1% AEP:	5.59%
		3.33%:	9.02%
0.1% AEP + 40% Climate Change:	0.09%	1% AEP + 40% Climate Change:	1.05%
		3.33% AEP + 40% Climate Change:	13.6%

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

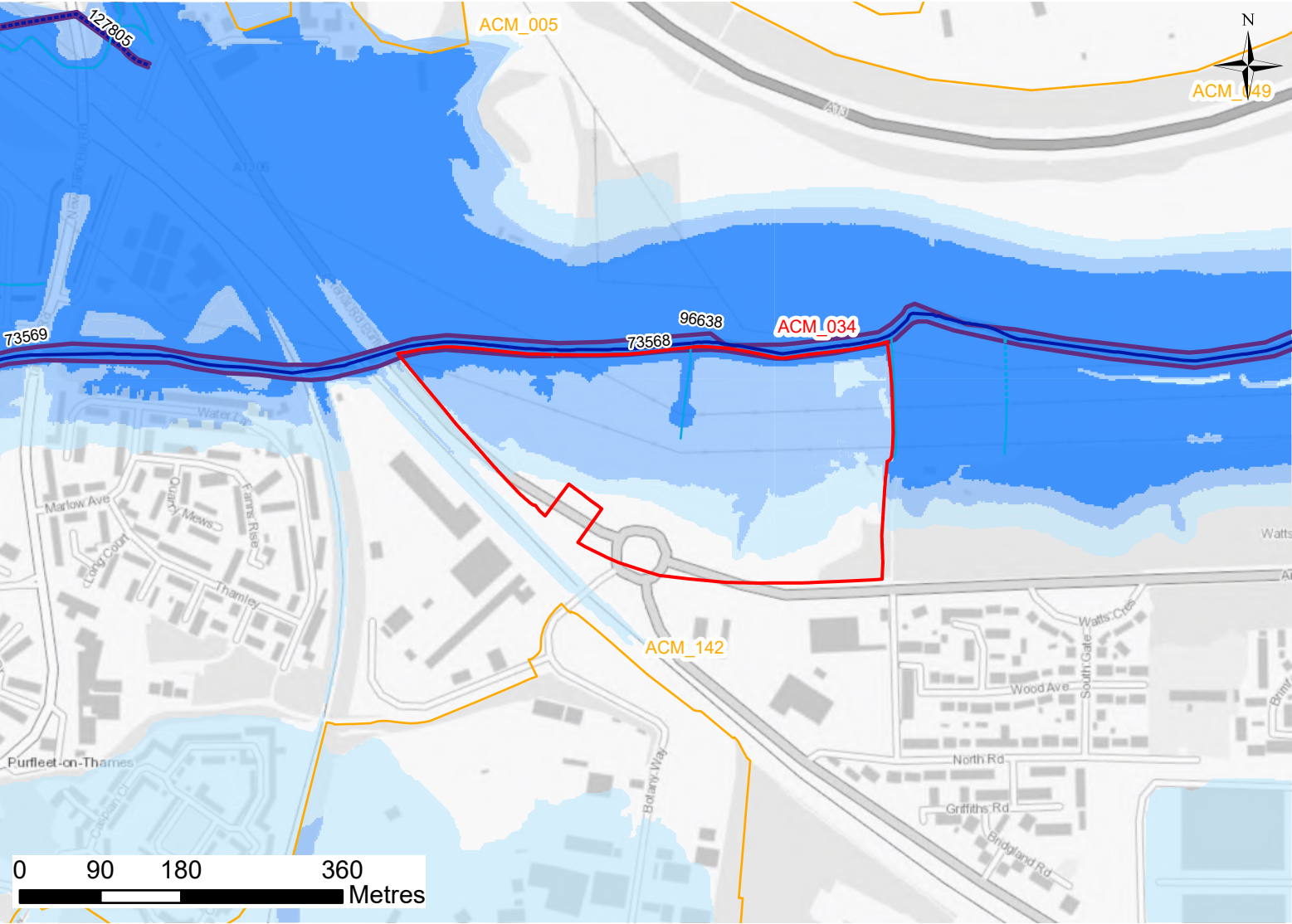
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 2.152mAOD	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:
0%	0%

AECOM REF: ACM_034	THURROCK REF: 61055	NEIGHBOURHOOD: Aveley and Uplands
SITE NAME: Mardyke Meadows		SITE AREA: 10.79 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	19.31%	Flood Zone 2 (0.1% AEP):	17.68%
		Flood Zone 3a (1% AEP):	52.73%
		Flood Zone 3b (defined in SFRA report):	10.28%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 86.93%			
FLOOD WARNING AREA(S): The Mardyke from North Stifford to Purfleet-on-Thames			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM19 1:68			
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*: 44.21%			
SURFACE WATER FLOODING			
0.1% AEP:	3.24%	1% AEP:	4.93%
		3.33%:	13.96%
0.1% AEP + 40% Climate Change:	4.35%	1% AEP + 40% Climate Change:	3.08%
		3.33% AEP + 40% Climate Change:	17.02%

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

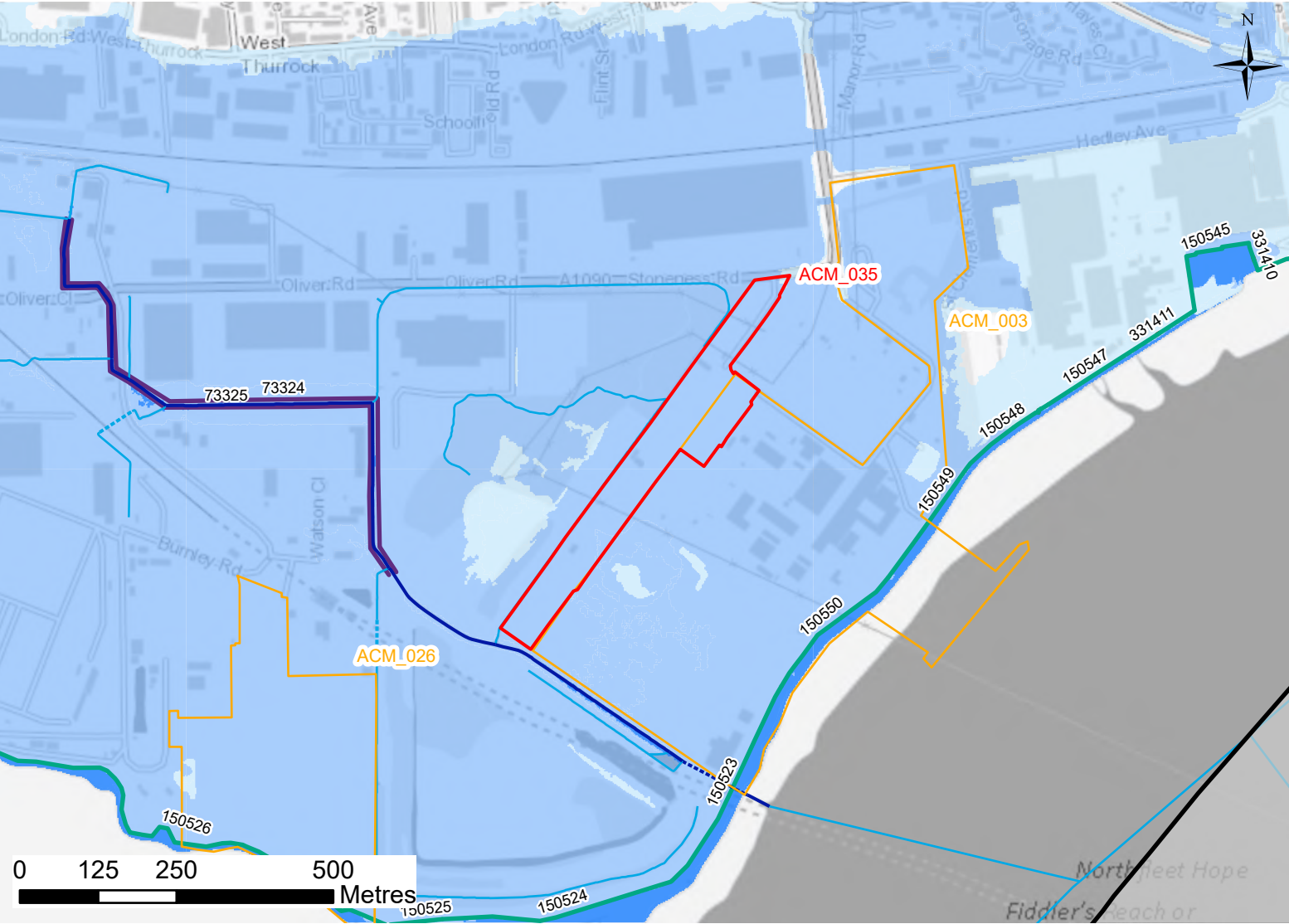
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: 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: 2.764mAOD	FROM BREACH LOCATION: MAR
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:	1.5%
WHEN THERE IS ALSO FLOODING FROM RIVERS:	
0.91%	

AECOM REF: ACM_035	THURROCK REF: 61057	NEIGHBOURHOOD: West Thurrock and South Stifford
SITE NAME: Titan Truck Park, Stoneness Road, RM20 3AG		SITE AREA: 4.93 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0.34%
		Flood Zone 3a (1% AEP):	99.66%
		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*: 0.18m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM20 3:23			
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:	7.69%	1% AEP:	3.79%
		3.33%:	12.35%
0.1% AEP + 40% Climate Change:	14.17%	1% AEP + 40% Climate Change:	2.77%
		3.33% AEP + 40% Climate Change:	14.82%

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

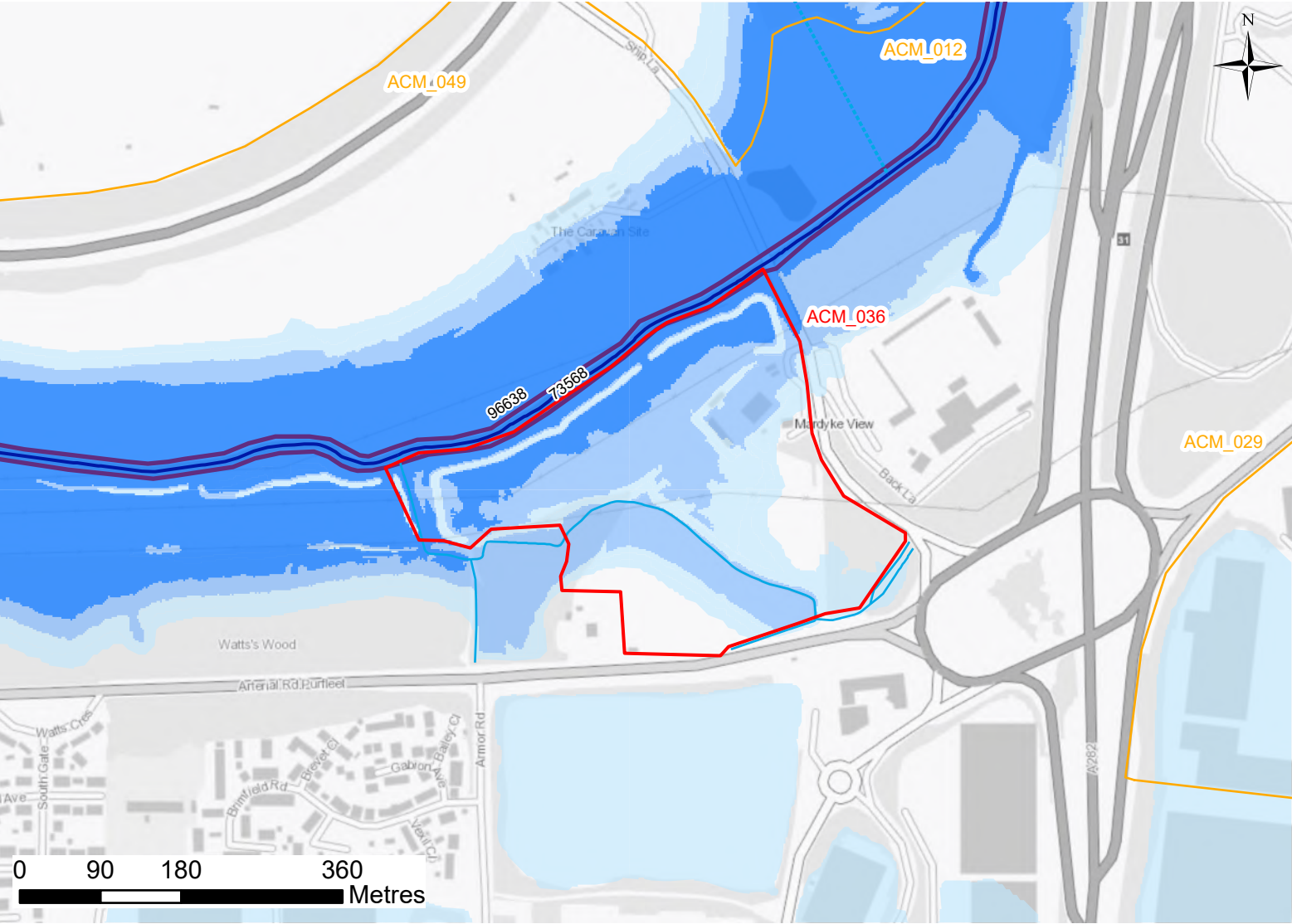
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: Very significant constraints are indicated	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 4.264mAOD	FROM BREACH LOCATION: PUR002
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 1.431mAOD	
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_036	THURROCK REF: 61073	NEIGHBOURHOOD: Aveley and Uplands
SITE NAME: Land Adjacent to A1306 and Junction 31 of M25, Purfleet-on-Thames, Essex		SITE AREA: 12.41 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	18.75%	Flood Zone 2 (0.1% AEP):	25.78%
Flood Zone 3a (1% AEP):	36.11%	Flood Zone 3b (defined in SFRA report):	19.36%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 89.83%			
FLOOD WARNING AREA(S): The Mardyke from North Stifford to Purfleet-on-Thames			
RECORDED FLOOD OUTLINES: 1968 September Flood Outline			
PROXIMITY TO CLOSEST WATERCOURSE*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM19 1:68			
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*: 42.19%			
SURFACE WATER FLOODING			
0.1% AEP:	5.83%	1% AEP:	3.43%
3.33%:	9.38%		
0.1% AEP + 40% Climate Change:	7.56%	1% AEP + 40% Climate Change:	5.26%
3.33% AEP + 40% Climate Change:	11.62%		

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

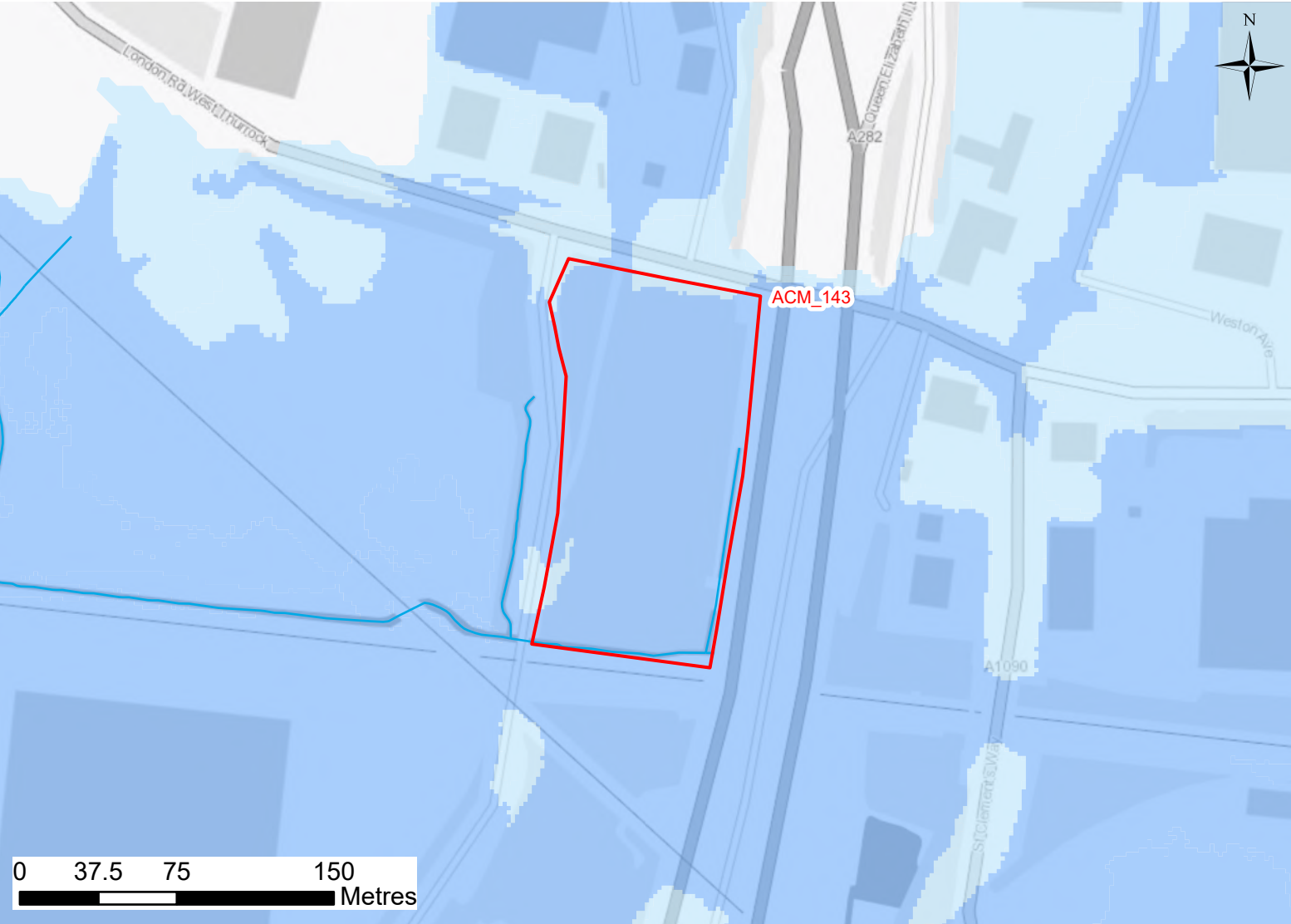
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: 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: 2.764mAOD	FROM BREACH LOCATION: MAR
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:
0.3%	5.17%

AECOM REF: ACM_143	THURROCK REF: T52	NEIGHBOURHOOD: n/a
SITE NAME: East of Quarry Road		SITE AREA: 1.61 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 3.37%	Flood Zone 3a (1% AEP): 96.63%	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*: Flows across site			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): RM20 3:23			
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: 2.29%	1% AEP: 3.84%	3.33%: 16.74%	
0.1% AEP + 40% Climate Change: 4.63%	1% AEP + 40% Climate Change: 1.81%	3.33% AEP + 40% Climate Change: 19.53%	

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

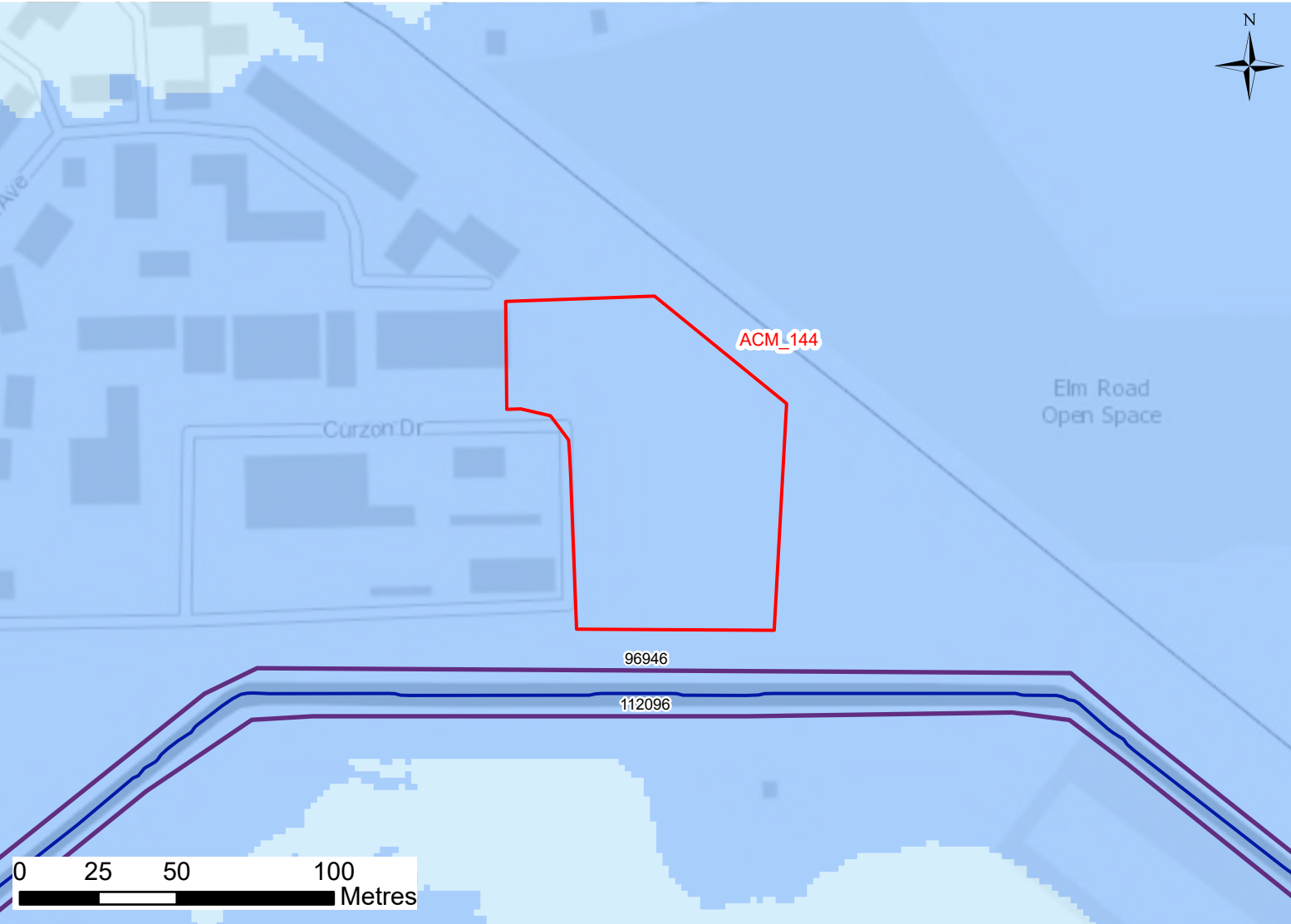
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: 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: Very significant constraints are indicated	
TIDAL FLOODING	
BREACH (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 5.184mAOD	FROM BREACH LOCATION: PUR003
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_144	THURROCK REF: T14a	NEIGHBOURHOOD: n/a
SITE NAME: Eastern end of Manor Way Industrial Estate		SITE AREA: 0.72 ha



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

VULNERABILITY CLASSIFICATION: Less 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 Grays to Purfleet-on-Thames, including West Thurrock			
RECORDED FLOOD OUTLINES: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 20.08m			
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: 14.53%	1% AEP: 24.15%	3.33%: 36.75%	
0.1% AEP + 40% Climate Change: 9.28%	1% AEP + 40% Climate Change: 15.59%	3.33% AEP + 40% Climate Change: 53.1%	

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

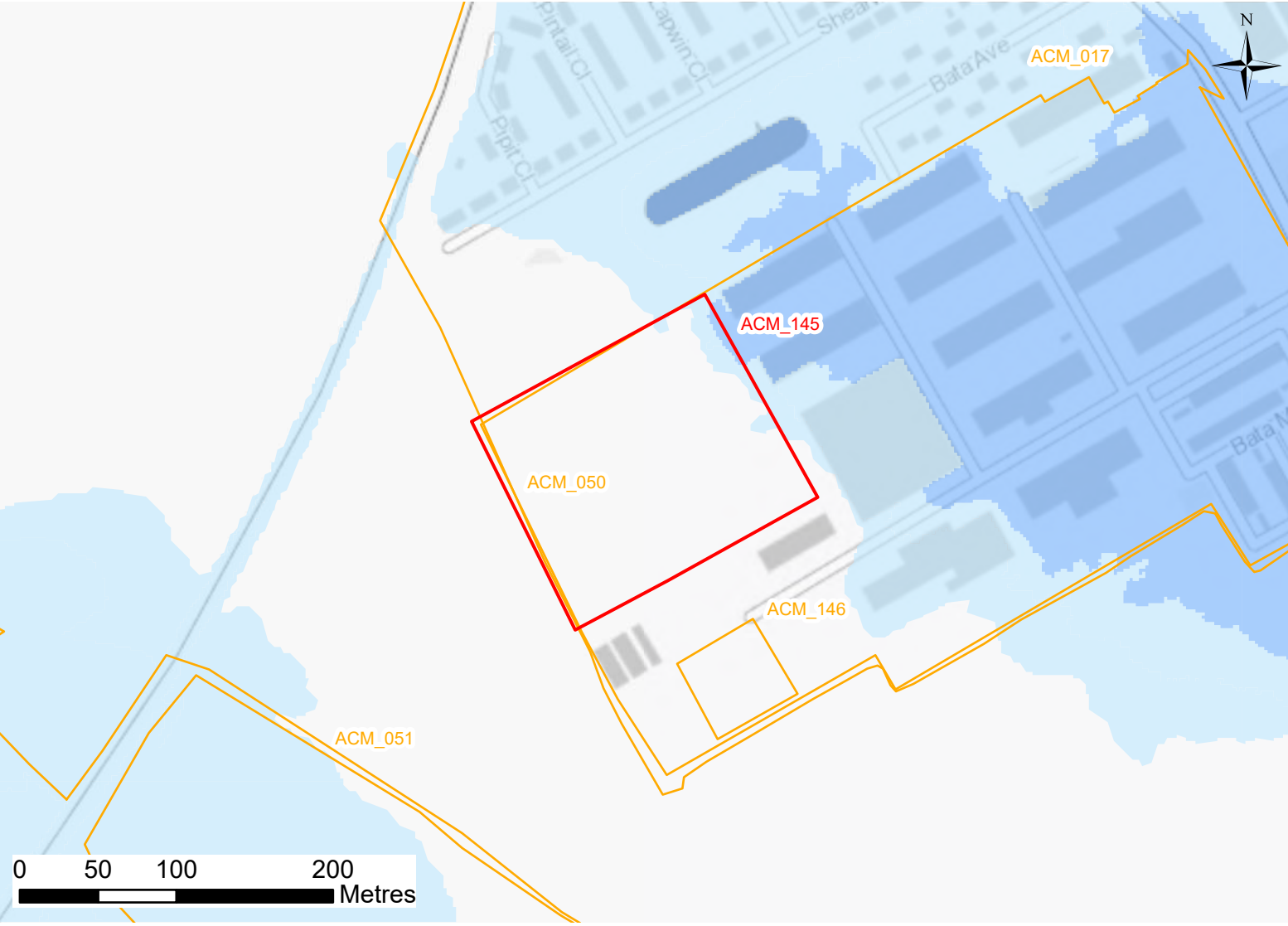
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: 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: 2.999mAOD	FROM BREACH LOCATION: TIL002
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: 94.34%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_145	THURROCK REF: T07a	NEIGHBOURHOOD: n/a
SITE NAME: Thames Ind. Park, East Tilbury		SITE AREA: 2.57 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	95.01%	Flood Zone 2 (0.1% AEP):	4.24%
		Flood Zone 3a (1% AEP):	0.75%
		Flood Zone 3b (defined in SFRA report):	0%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 87.46%			
FLOOD WARNING AREA(S): The Thames estuary from Shellhaven, to and including Tilbury			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 338.85m			
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*: 73.89%			
SURFACE WATER FLOODING			
0.1% AEP:	0.02%	1% AEP:	1.44%
		3.33%:	1.83%
0.1% AEP + 40% Climate Change:	4.02%	1% AEP + 40% Climate Change:	0.16%
		3.33% AEP + 40% Climate Change:	3.12%

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

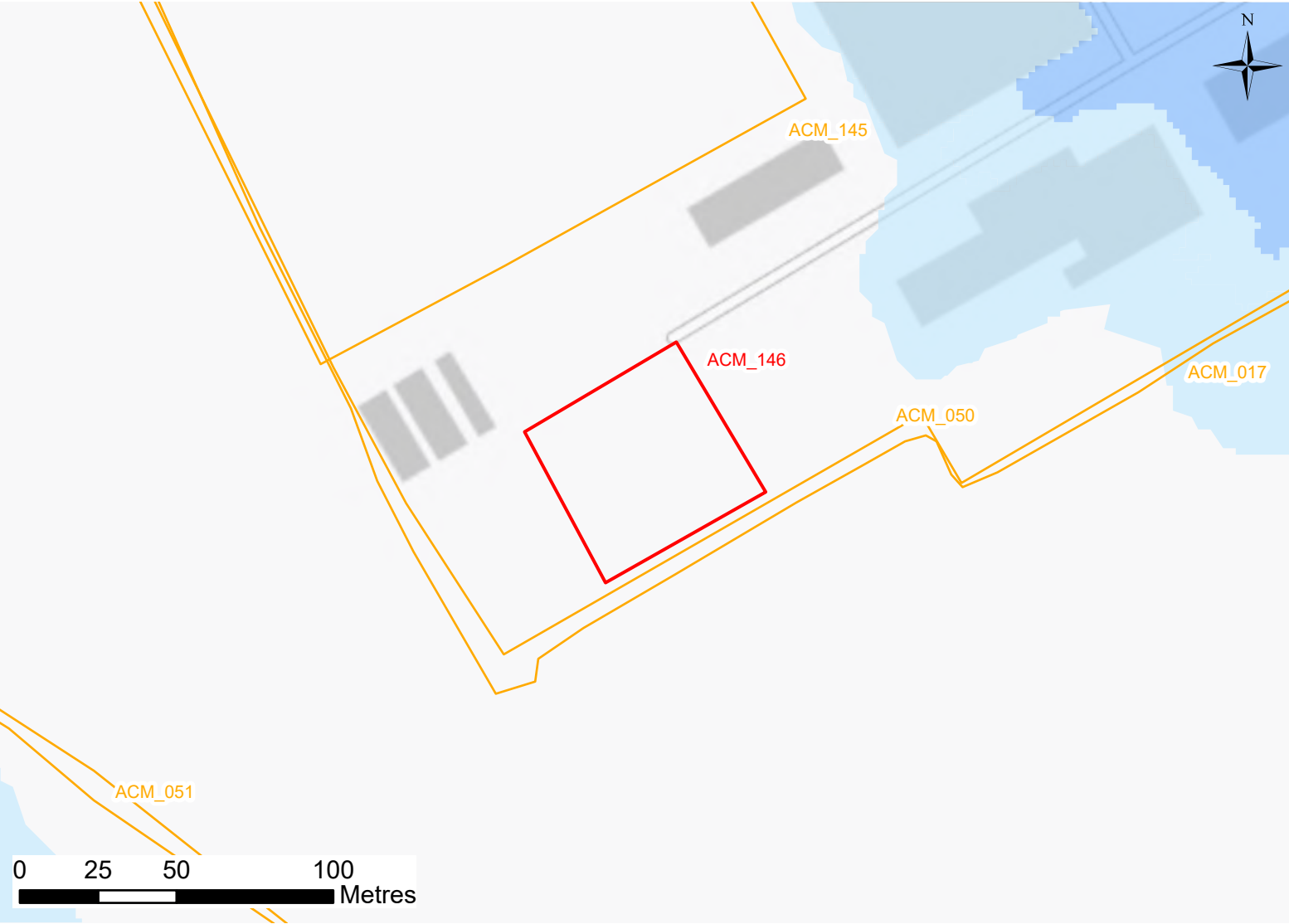
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: 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: 5.661mAOD	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_146	THURROCK REF: T07b	NEIGHBOURHOOD: n/a
SITE NAME: Thames Ind. Park, East Tibury		SITE AREA: 0.32 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: Less 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: 53.86%			
FLOOD WARNING AREA(S): n/a			
RECORDED FLOOD OUTLINES: n/a			
PROXIMITY TO CLOSEST WATERCOURSE*: 440.47m			
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*: 16.05%			
SURFACE WATER FLOODING			
0.1% AEP:	0%	1% AEP:	0.18%
		3.33%:	0.77%
0.1% AEP + 40% Climate Change:	0.82%	1% AEP + 40% Climate Change:	0.06%
		3.33% AEP + 40% Climate Change:	0.89%

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

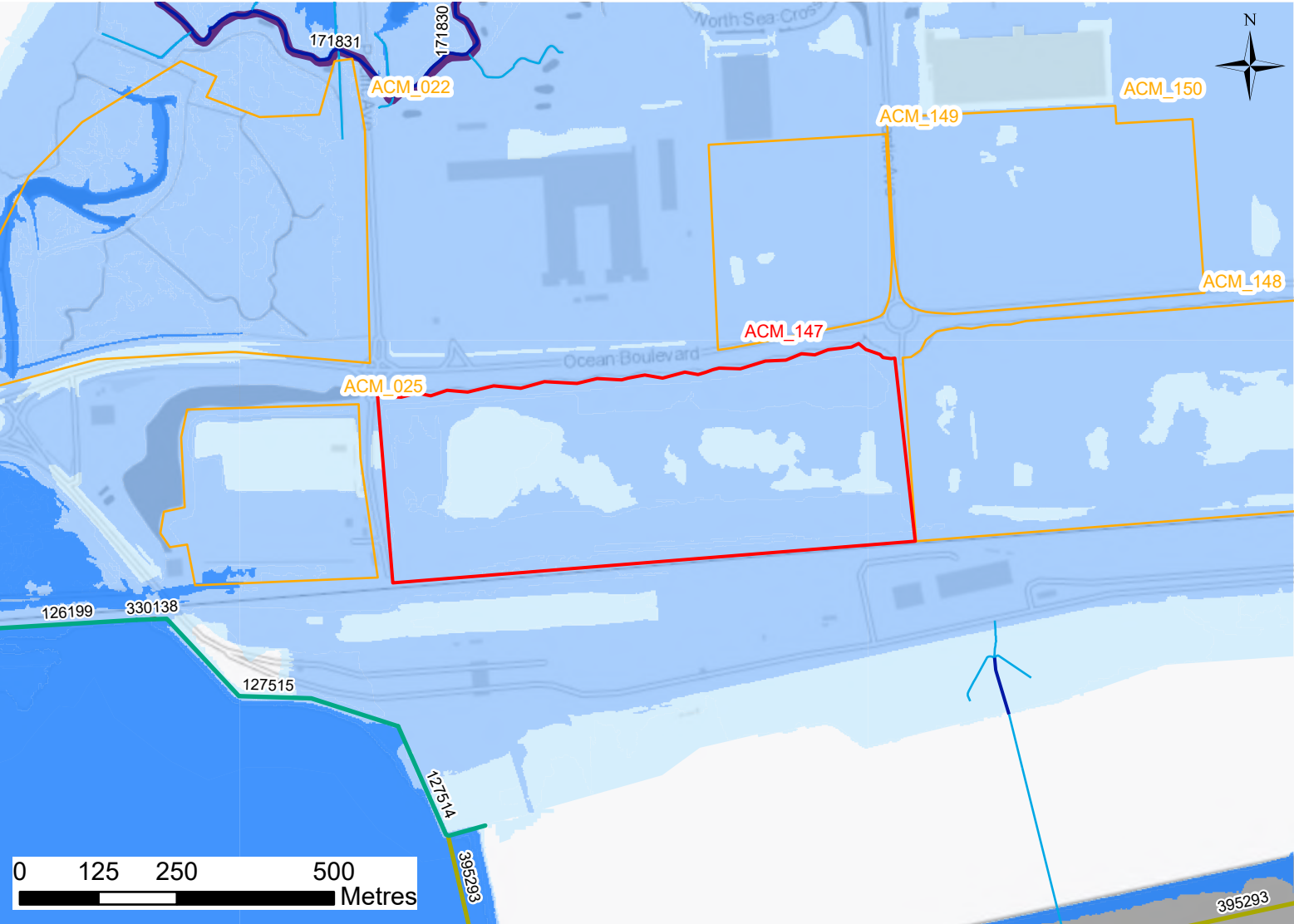
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Thanet Sand Formation	
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: Opportunities for bespoke 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: 0%	WHEN THERE IS ALSO FLOODING FROM RIVERS: 0%

AECOM REF: ACM_147	THURROCK REF: T05b	NEIGHBOURHOOD: n/a
SITE NAME: South of Ocean Boulevard and West of Atlantic Avenue (LG873)		SITE AREA: 24.84 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 19.79%	Flood Zone 3a (1% AEP): 80.21%	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*: 178.77m			
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*: 96.04%			
SURFACE WATER FLOODING			
0.1% AEP: 16.79%	1% AEP: 8.47%	3.33%: 2.99%	
0.1% AEP + 40% Climate Change: 14.44%	1% AEP + 40% Climate Change: 9.41%	3.33% AEP + 40% Climate Change: 8.64%	

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

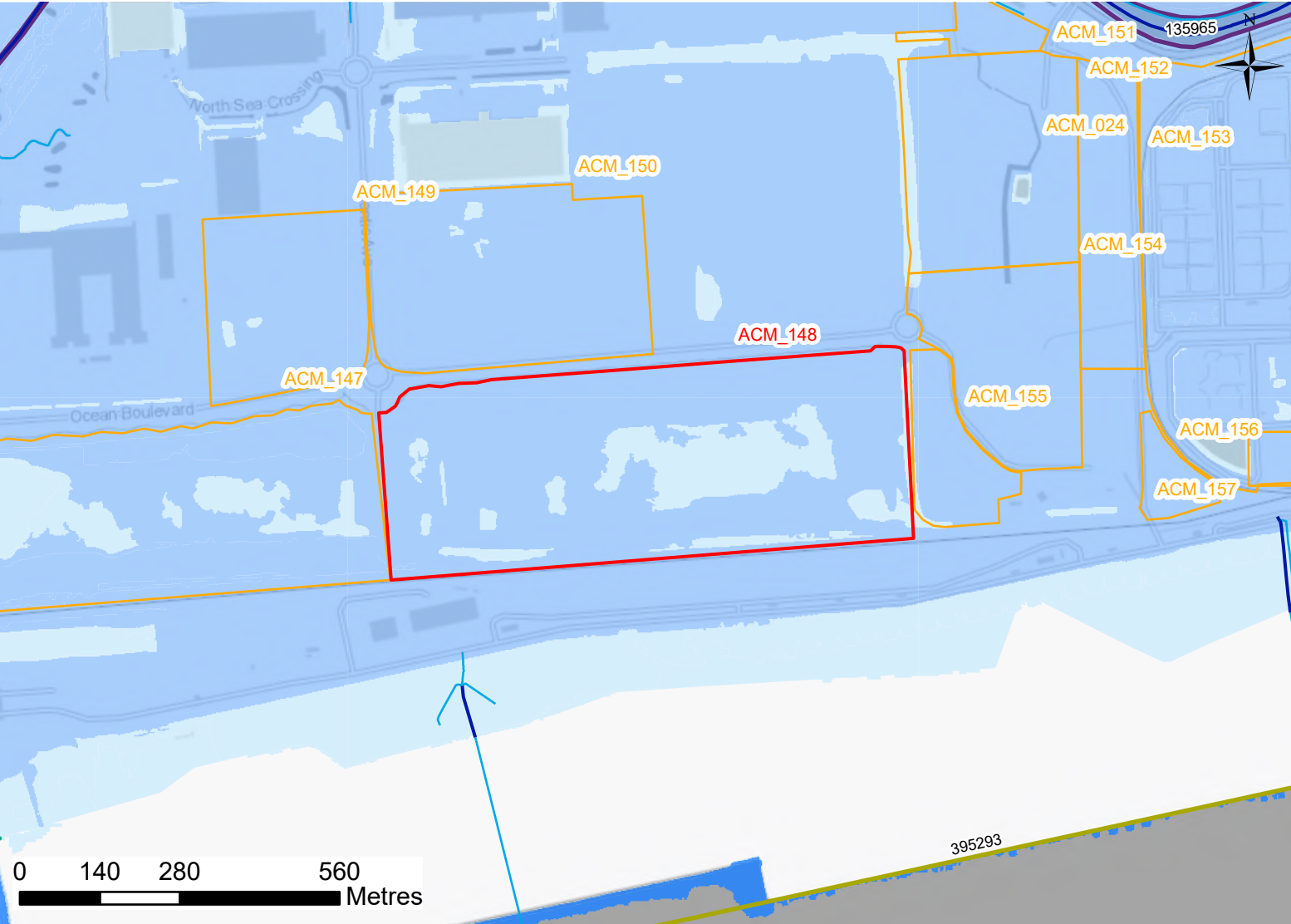
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.232mAOD	FROM BREACH LOCATION: FOB001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 3.255mAOD	
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_148	THURROCK REF: T05c	NEIGHBOURHOOD: n/a
SITE NAME: South of Ocean Boulevard and East of Atlantic Avenue (LG1301)		SITE AREA: 30.67 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	19.65%
		Flood Zone 3a (1% AEP):	80.35%
		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*: 135.82m			
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:	11.81%	1% AEP:	3.9%
		3.33%:	2.24%
0.1% AEP + 40% Climate Change:	12.22%	1% AEP + 40% Climate Change:	5.79%
		3.33% AEP + 40% Climate Change:	3.83%

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.134mAOD	FROM BREACH LOCATION: FOB001
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 3.262mAOD	
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_149	THURROCK REF: T05a	NEIGHBOURHOOD: n/a
SITE NAME: East of UPS		SITE AREA: 8.68 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 1.36%	Flood Zone 3a (1% AEP): 98.64%	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*: 274.9m			
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*: 99.56%			
SURFACE WATER FLOODING			
0.1% AEP: 23.22%	1% AEP: 2.47%	3.33%: 1.13%	
0.1% AEP + 40% Climate Change: 27.51%	1% AEP + 40% Climate Change: 7.37%	3.33% AEP + 40% Climate Change: 1.86%	

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

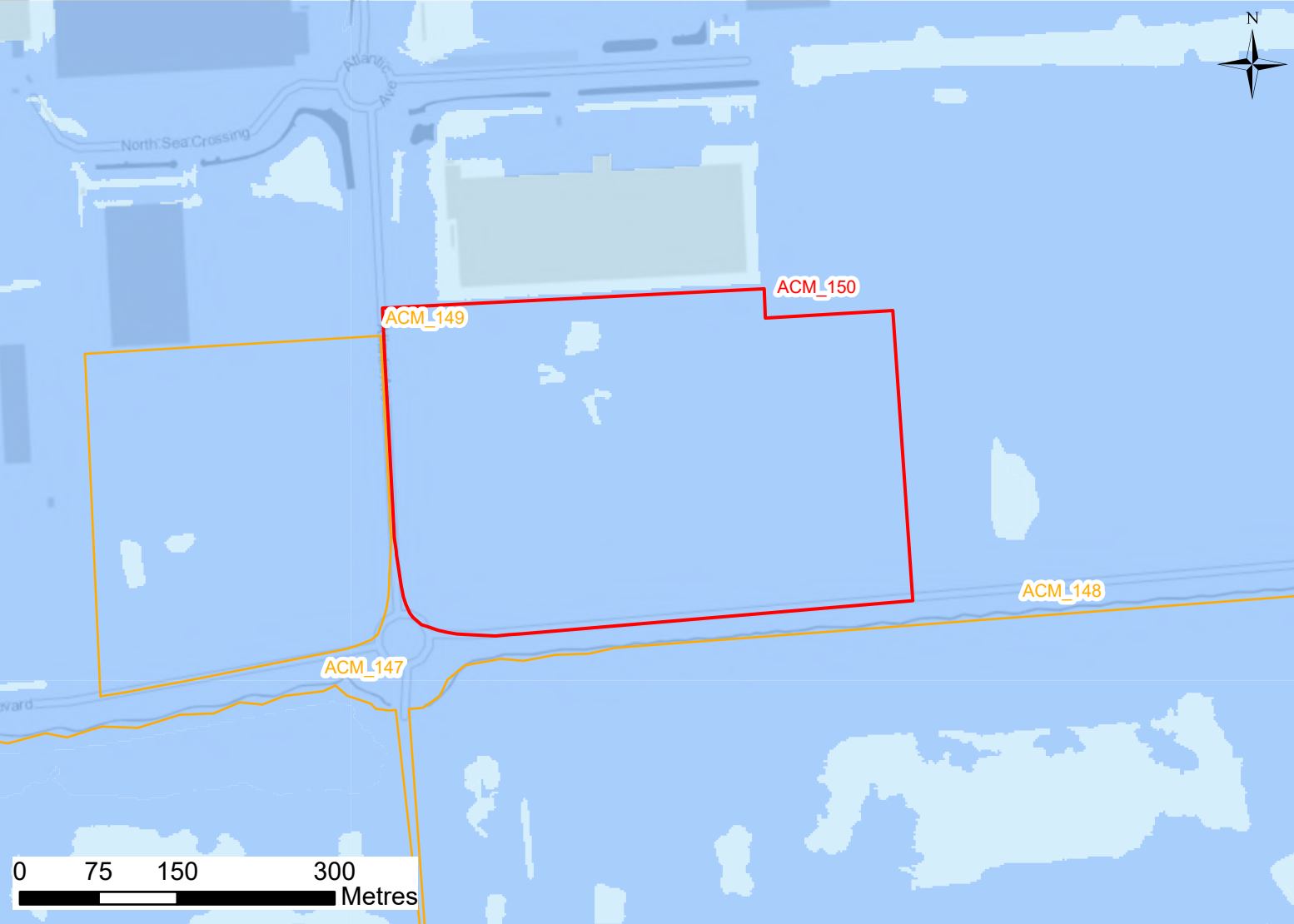
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.120mAOD	FROM BREACH LOCATION: FOB001
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_150	THURROCK REF: T05d	NEIGHBOURHOOD: n/a
SITE NAME: North of Ocean Boulevard and East of Atlatic Avenue (LG784)		SITE AREA: 14.79 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 1%	Flood Zone 3a (1% AEP): 99%	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*: 301.45m			
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: 12.86%	1% AEP: 3.16%	3.33%: 0.71%	
0.1% AEP + 40% Climate Change: 14.01%	1% AEP + 40% Climate Change: 5.55%	3.33% AEP + 40% Climate Change: 2.07%	

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

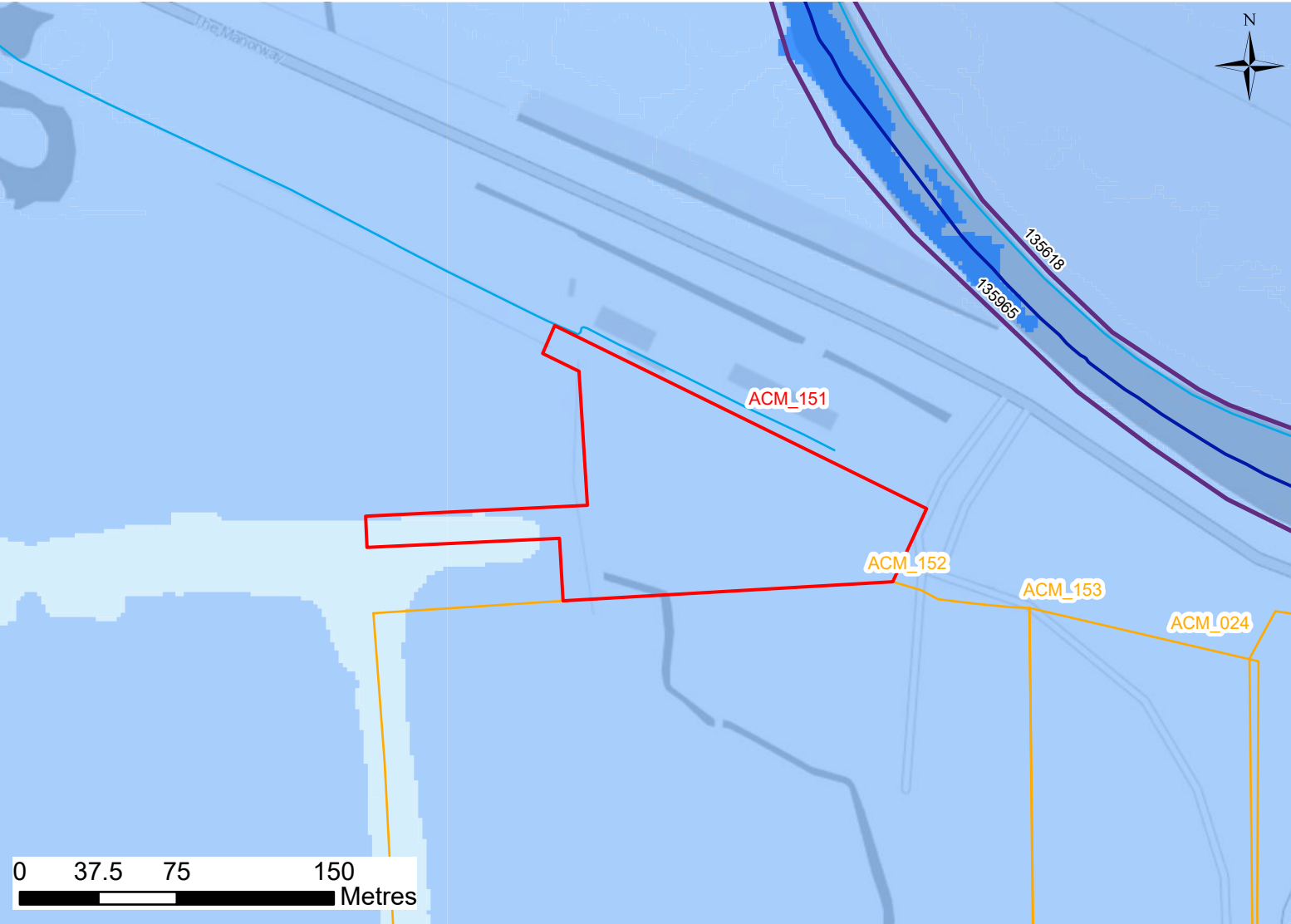
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.089mAOD	FROM BREACH LOCATION: FOB001
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_151	THURROCK REF: T05j	NEIGHBOURHOOD: n/a
SITE NAME: South of Manor Way House		SITE AREA: 1.48 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 6.88%	Flood Zone 3a (1% AEP): 93.12%	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*: 0.64m			
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: 24.4%	1% AEP: 8.1%	3.33%: 1.77%	
0.1% AEP + 40% Climate Change: 25.01%	1% AEP + 40% Climate Change: 13.82%	3.33% AEP + 40% Climate Change: 3.77%	

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

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

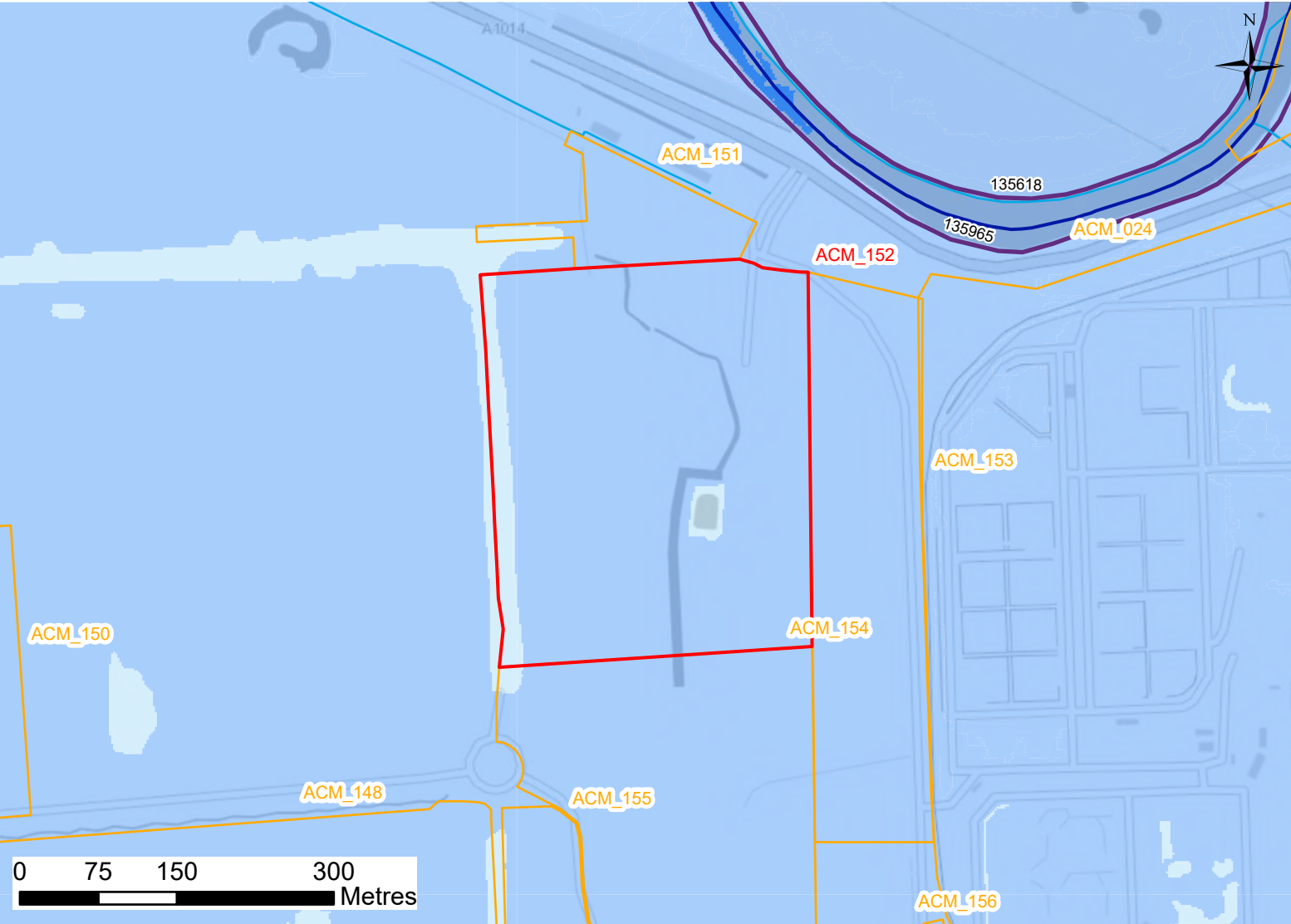
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 3.178mAOD	FROM BREACH LOCATION: FOB002
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_152	THURROCK REF: T05g	NEIGHBOURHOOD: n/a
SITE NAME: West of Baltic Avenue (LG715)		SITE AREA: 11.34 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	7.03%
Flood Zone 3a (1% AEP):	92.97%	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*: 64.13m			
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:	18.67%	1% AEP:	4.38%
3.33%:	1.38%		
0.1% AEP + 40% Climate Change:	17.6%	1% AEP + 40% Climate Change:	8.98%
3.33% AEP + 40% Climate Change:	2.95%		

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

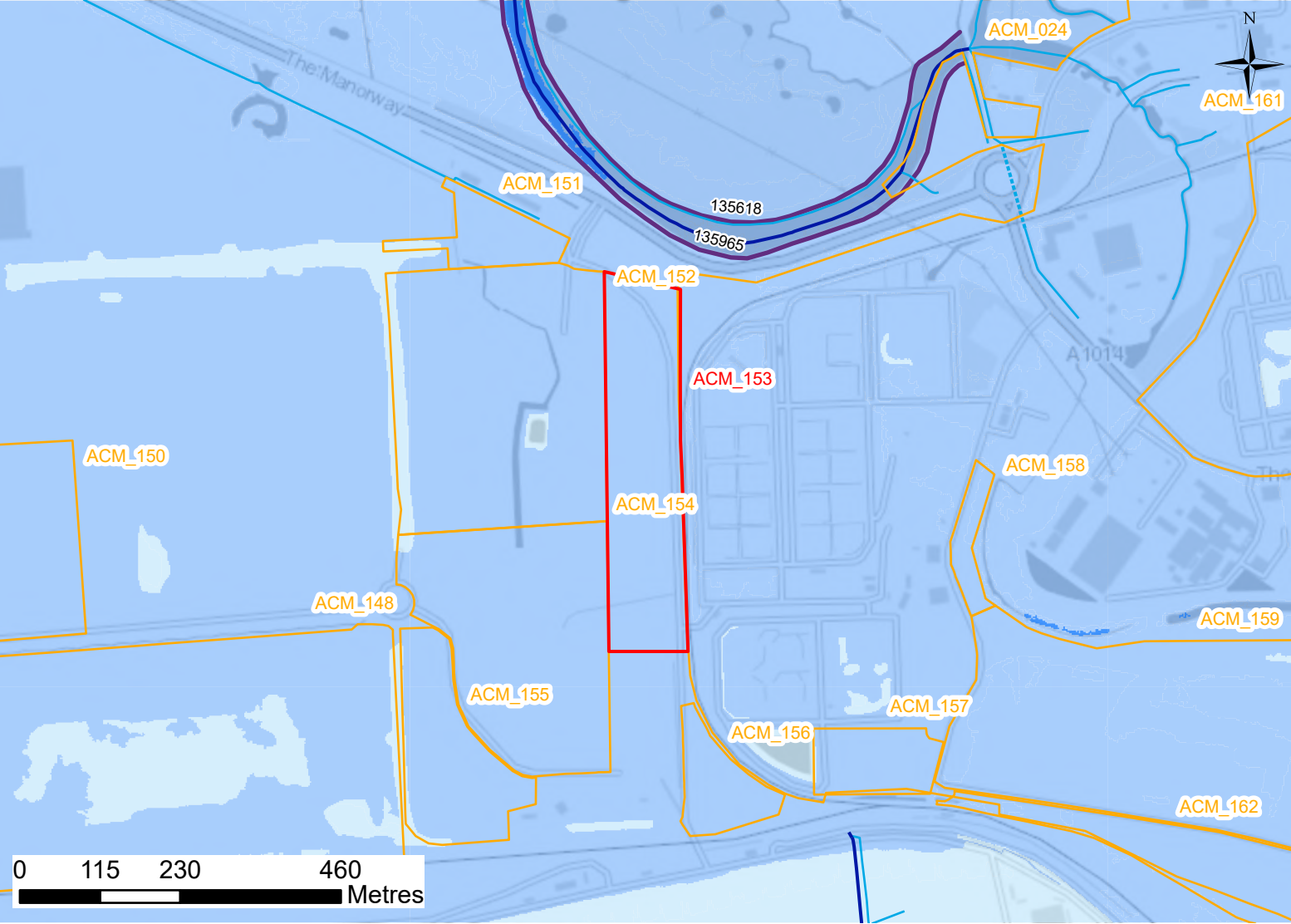
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 3.330mAOD	FROM BREACH LOCATION: FOB002
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_153	THURROCK REF: T05k	NEIGHBOURHOOD: n/a
SITE NAME: Eastern Edge of London Gateway Logistics Park		SITE AREA: 5.8 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: Less 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: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 84.12m			
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:	10.33%	1% AEP:	3.07%
3.33%:	2.43%		
0.1% AEP + 40% Climate Change:	13.78%	1% AEP + 40% Climate Change:	3.99%
3.33% AEP + 40% Climate Change:	4.2%		

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

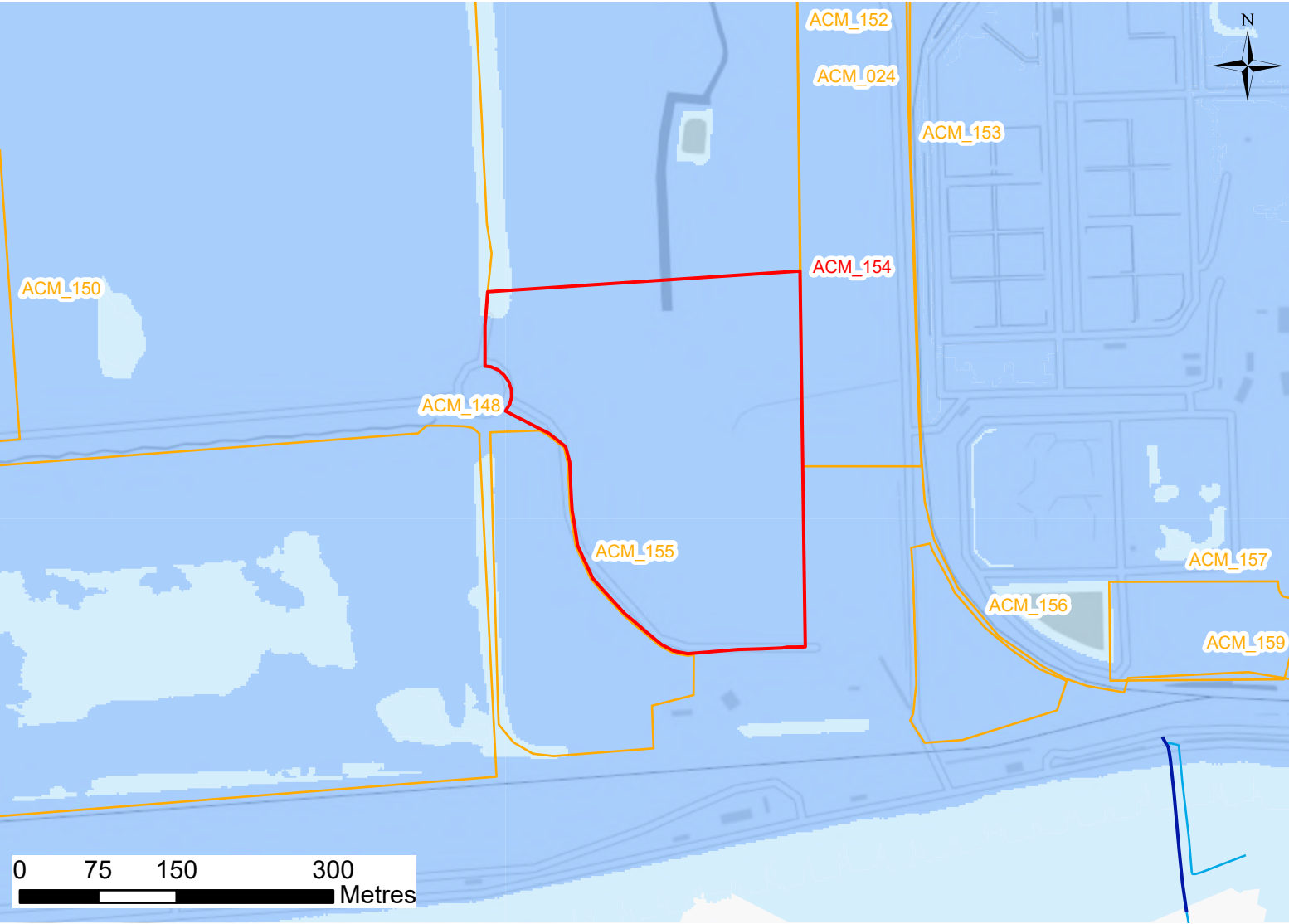
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 3.485mAOD	FROM BREACH LOCATION: FOB002
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_154	THURROCK REF: T05h	NEIGHBOURHOOD: n/a
SITE NAME: West of Ocean Boulevard (LG576)		SITE AREA: 8.43 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 0.64%	Flood Zone 3a (1% AEP): 99.36%	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*: 352.33m			
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: 7.3%	1% AEP: 2.17%	3.33%: 0.37%	
0.1% AEP + 40% Climate Change: 10.26%	1% AEP + 40% Climate Change: 2.81%	3.33% AEP + 40% Climate Change: 1.11%	

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

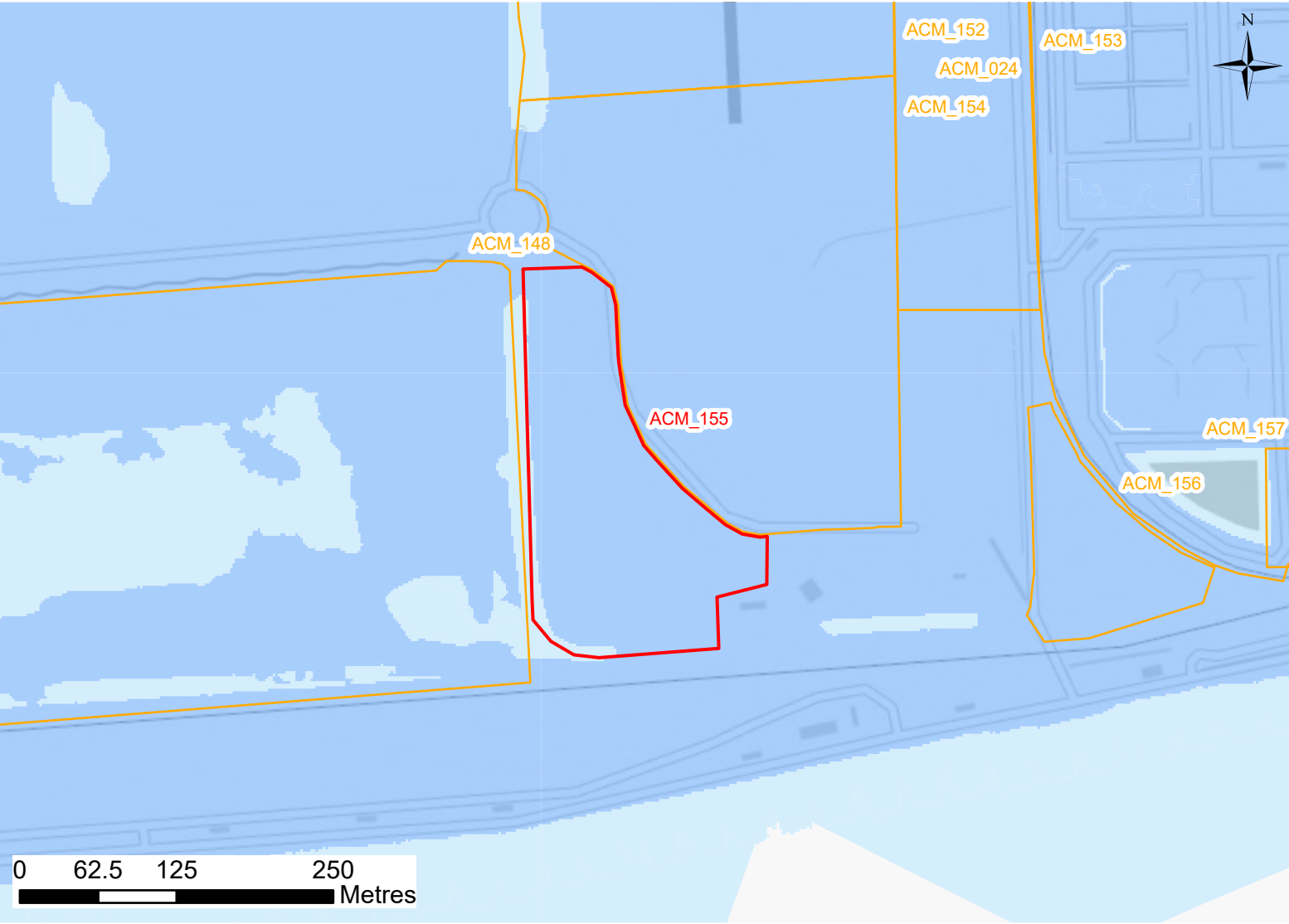
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.078mAOD	FROM BREACH LOCATION: FOB001
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_155	THURROCK REF: T05i	NEIGHBOURHOOD: n/a
SITE NAME: Between Baltic Avenue and Ocean Boulevard		SITE AREA: 3.51 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	4.35%
		Flood Zone 3a (1% AEP):	95.65%
		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*: 450.48m			
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:	10.92%	1% AEP:	2.71%
		3.33%:	0.42%
0.1% AEP + 40% Climate Change:	11.85%	1% AEP + 40% Climate Change:	5%
		3.33% AEP + 40% Climate Change:	2.02%

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

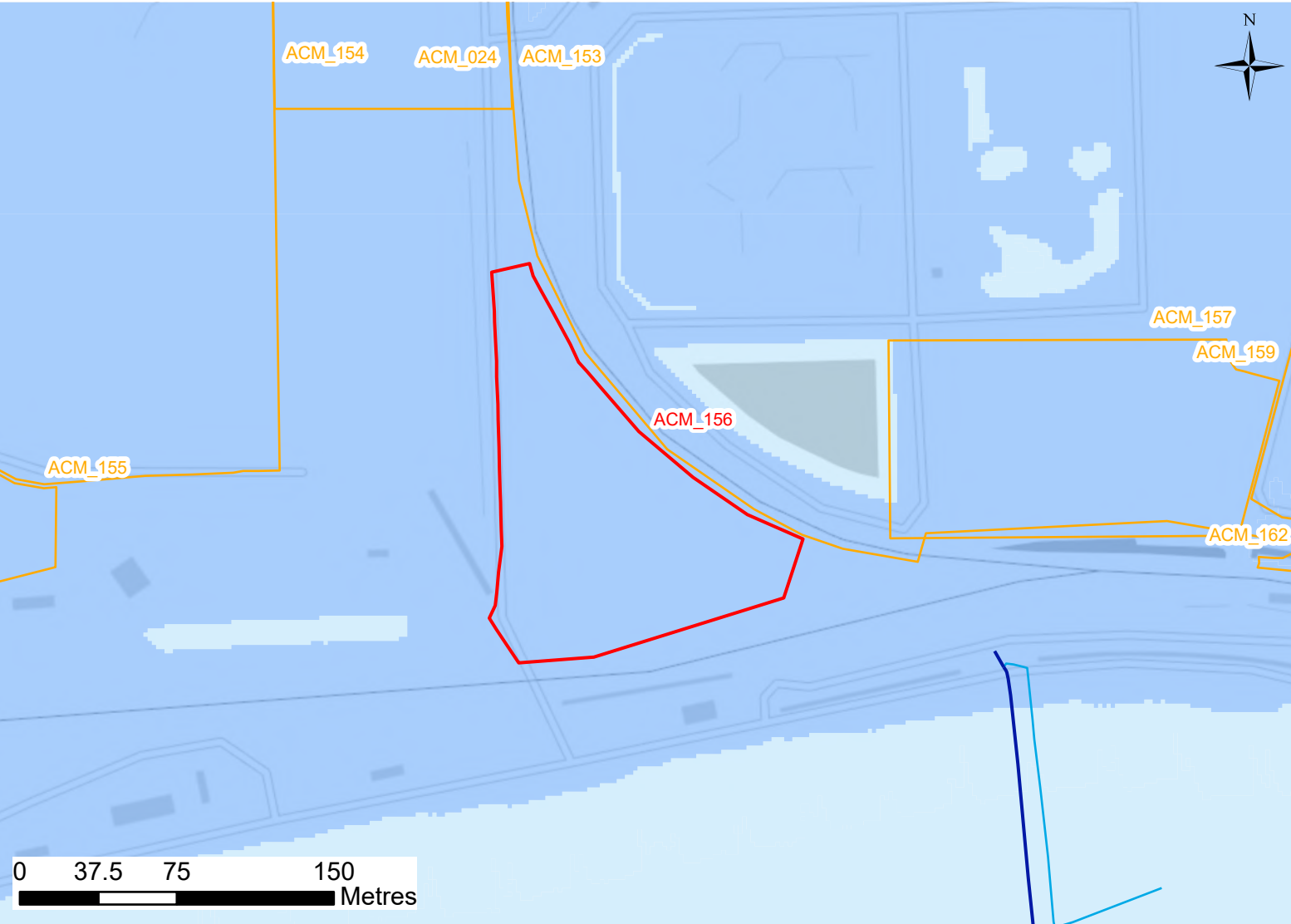
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
DEPTH

MODELLED BREACH 0.5%
AEP 2125 UPPER END FLOOD
HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.078mAOD	FROM BREACH LOCATION: FOB001
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_156	THURROCK REF: T05I	NEIGHBOURHOOD: n/a
SITE NAME: South East Corner of London Gateway Logistics Park		SITE AREA: 1.48 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: Less 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: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 103.7m			
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: 48.36%	1% AEP: 11.82%	3.33%: 1.41%	
0.1% AEP + 40% Climate Change: 41.27%	1% AEP + 40% Climate Change: 26.44%	3.33% AEP + 40% Climate Change: 8.22%	

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

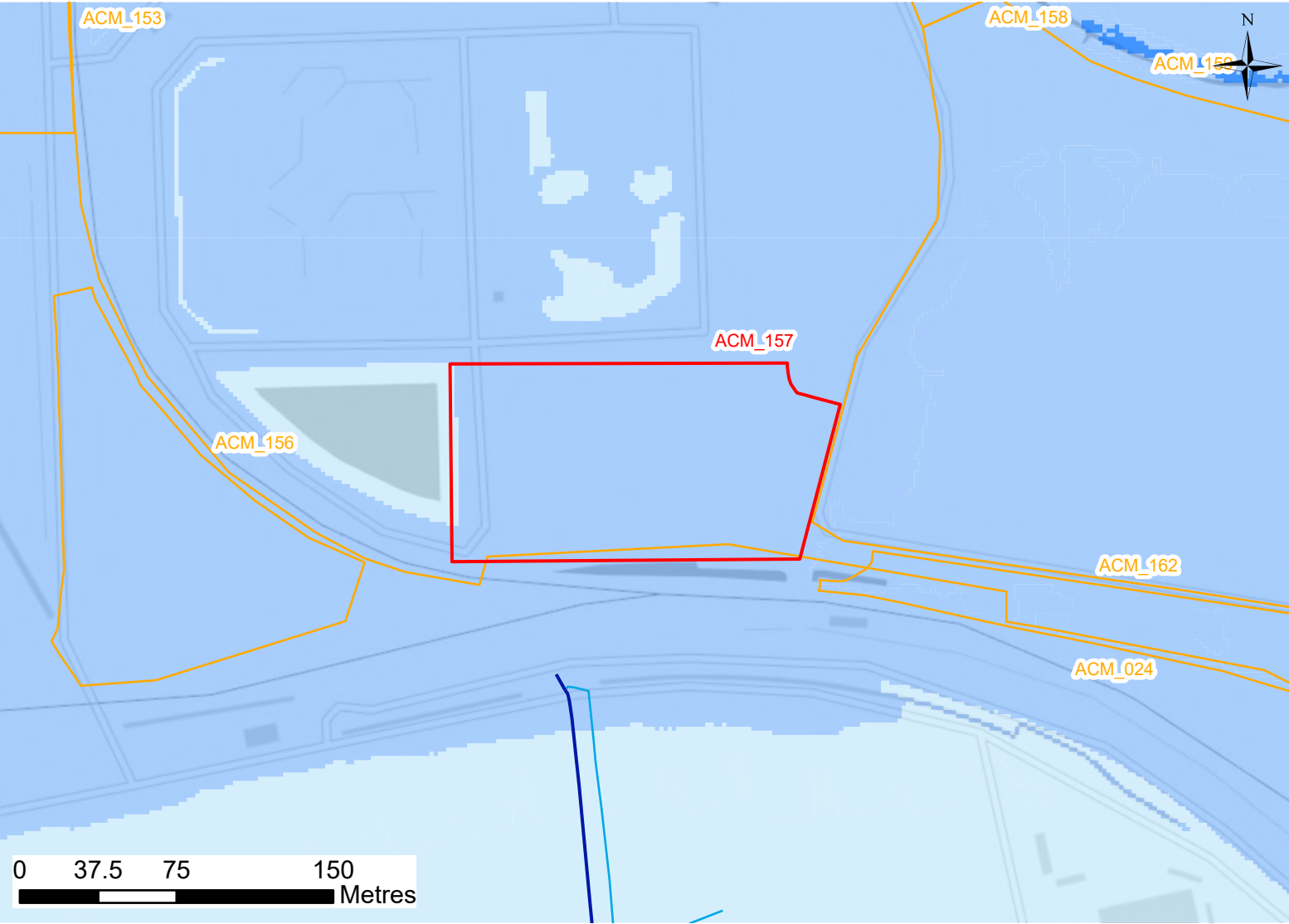
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 3.706mAOD	FROM BREACH LOCATION: FOB002
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_157	THURROCK REF: T06b	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plot B		SITE AREA: 1.64 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: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP): 0%	Flood Zone 2 (0.1% AEP): 1.47%	Flood Zone 3a (1% AEP): 98.53%	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*: 54.26m			
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: 8.78%	1% AEP: 0.56%	3.33%: 1.12%	
0.1% AEP + 40% Climate Change: 9.47%	1% AEP + 40% Climate Change: 2.39%	3.33% AEP + 40% Climate Change: 1.4%	

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: Lambeth Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.057mAOD	FROM BREACH LOCATION: FOB002
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_158	THURROCK REF: T06a	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plot A		SITE AREA: 0.69 ha



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

VULNERABILITY CLASSIFICATION: Less 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: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 250.5m			
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:	0.29%	1% AEP:	0.01%
		3.33%:	0%
0.1% AEP + 40% Climate Change:	0.32%	1% AEP + 40% Climate Change:	0.1%
		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

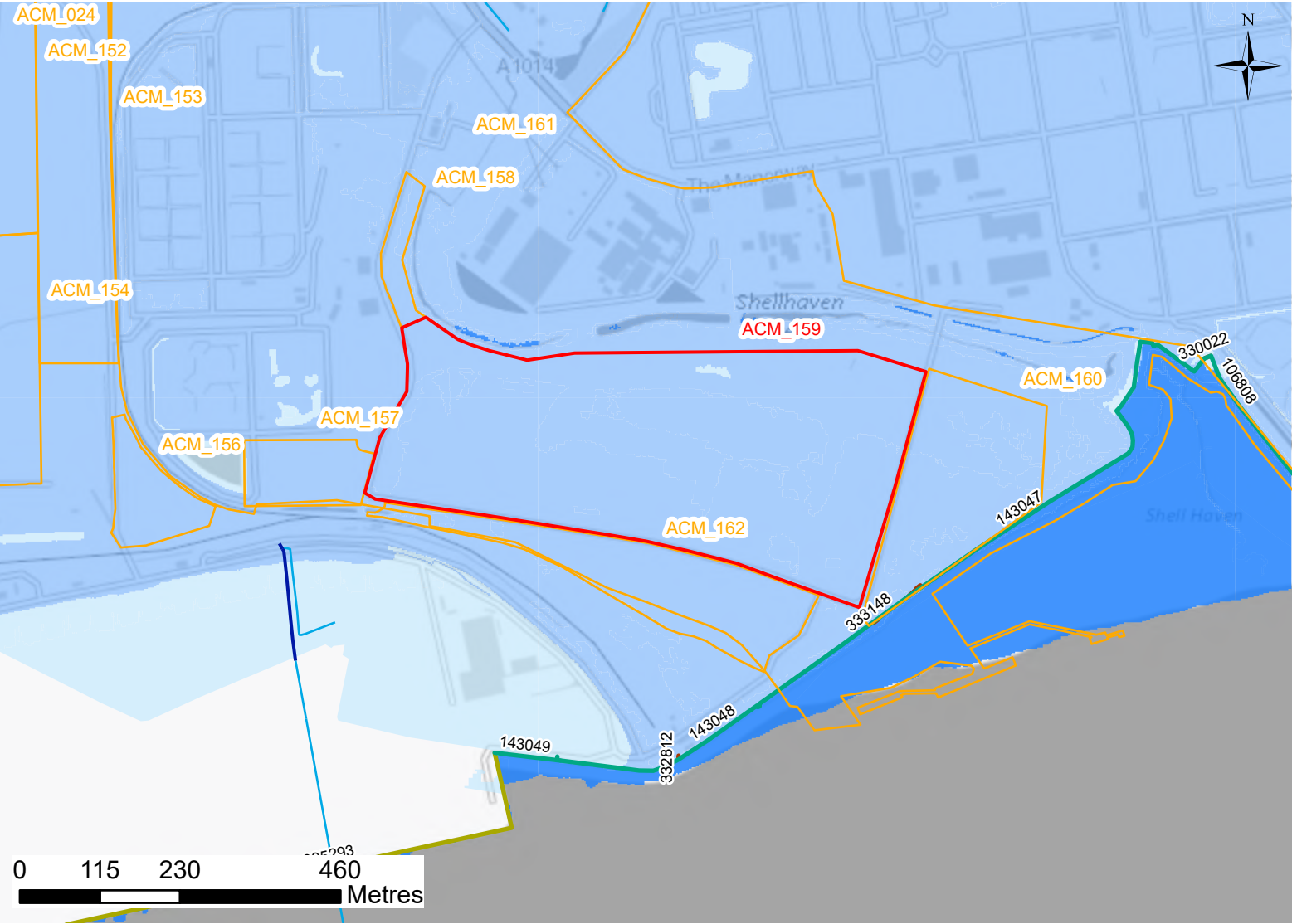
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD DEPTH

MODELLED BREACH 0.5% AEP 2125 UPPER END FLOOD HAZARD

GROUNDWATER FLOODING	
BEDROCK GEOLOGY: Lambeth Group and Thames Group	
SUPERFICIAL GEOLOGY: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 3.857mAOD	FROM BREACH LOCATION: FOB002
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_159	THURROCK REF: T06d,e	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plot D&E		SITE AREA: 20.65 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0%	Flood Zone 2 (0.1% AEP):	0.22%
Flood Zone 3a (1% AEP):	99.78%	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*: 134.08m			
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:	12.55%	1% AEP:	2.88%
3.33%:	2.1%		
0.1% AEP + 40% Climate Change:	15.78%	1% AEP + 40% Climate Change:	4.62%
3.33% AEP + 40% Climate Change:	3.75%		

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

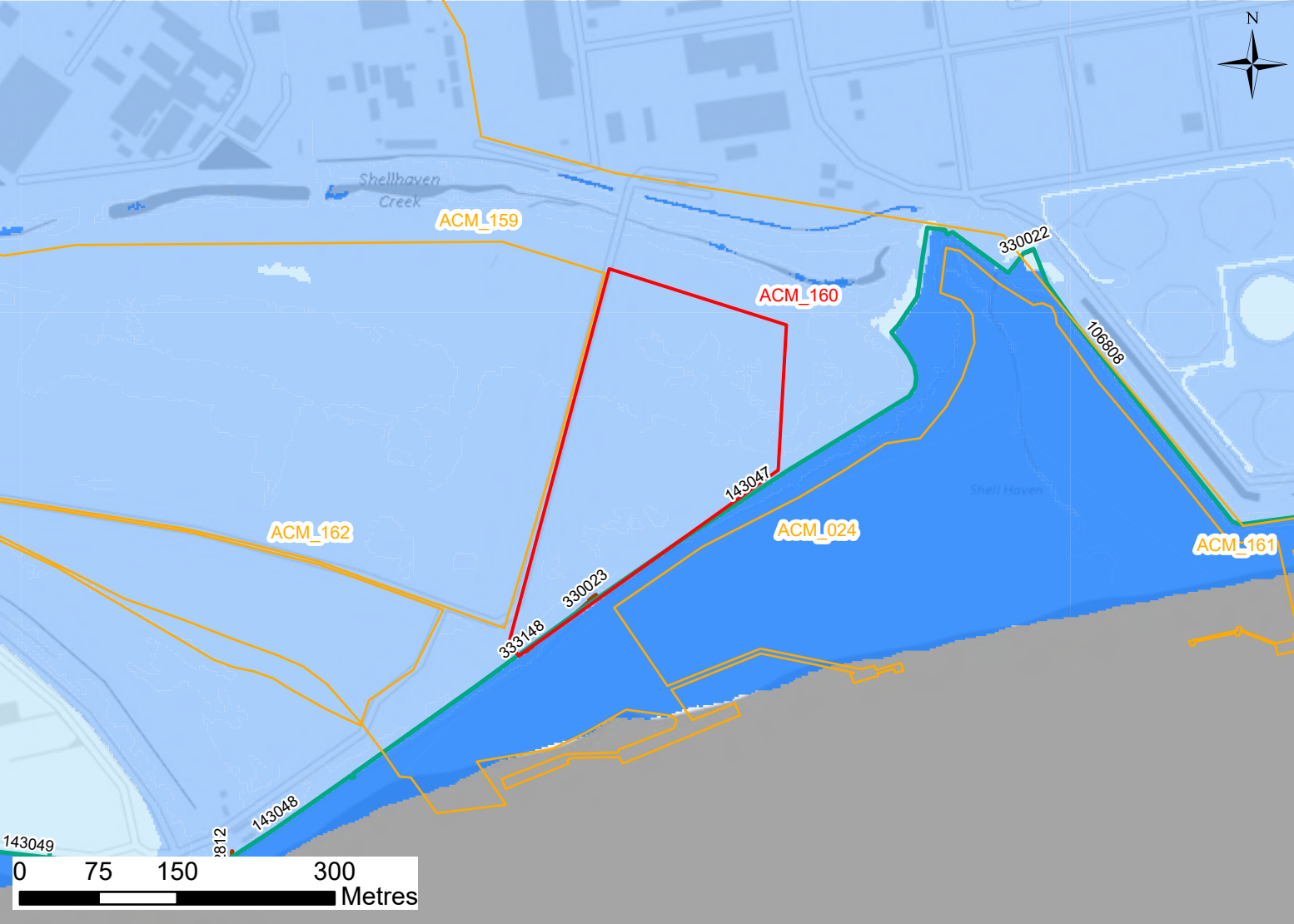
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.262mAOD	FROM BREACH LOCATION: FOB002
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_160	THURROCK REF: T06f	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plot F		SITE AREA: 5.22 ha



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

VULNERABILITY CLASSIFICATION: Less 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): 99.98%
		Flood Zone 3b (defined in SFRA report): 0.02%
% 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*: 618.4m		
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: 9.47%	1% AEP: 1%	3.33%: 0.53%
0.1% AEP + 40% Climate Change: 10.45%	1% AEP + 40% Climate Change: 2.8%	3.33% AEP + 40% Climate Change: 1.15%

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

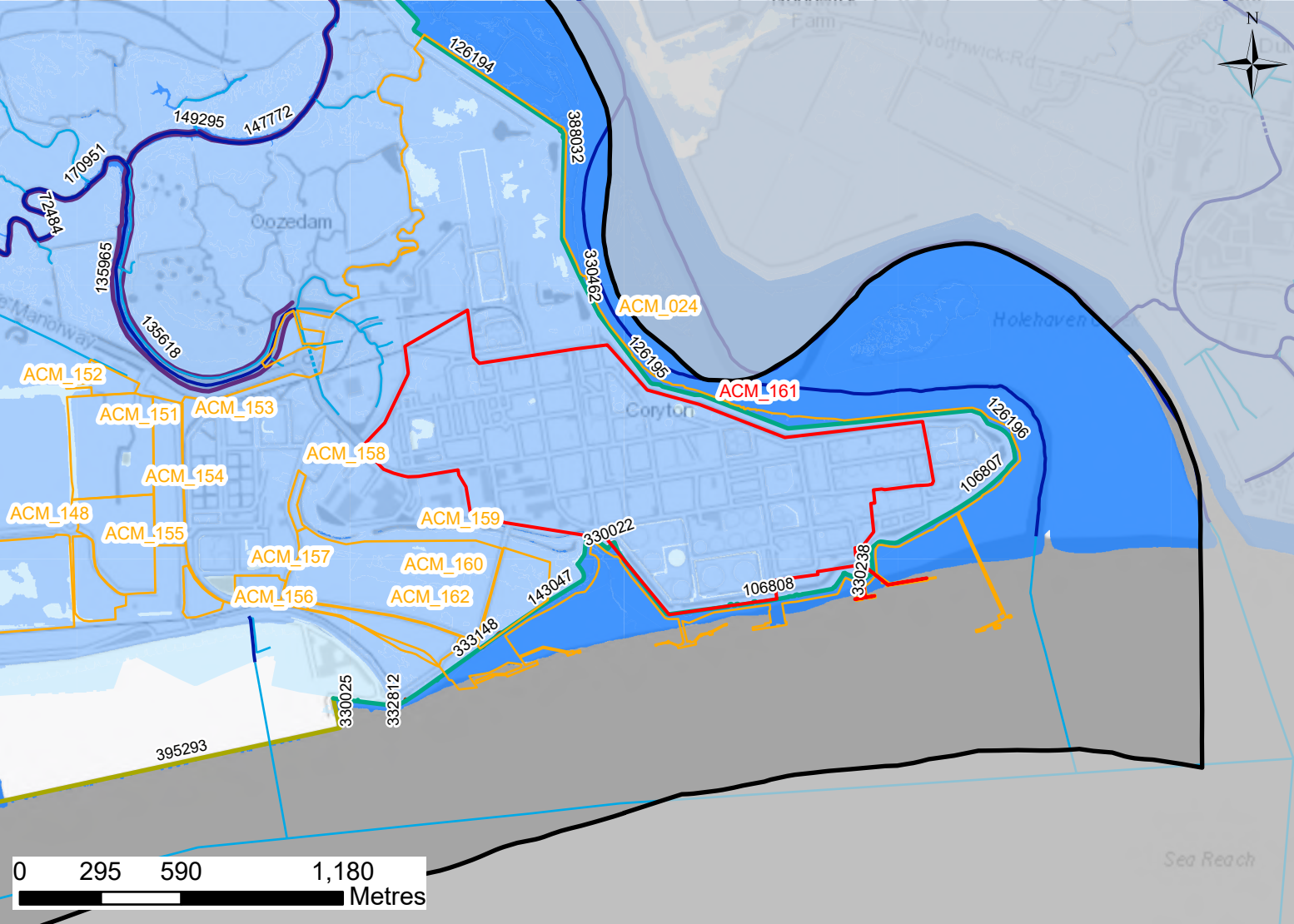
MODELLED OVERTOPPING 0.5% AEP 2125 UPPER END FLOOD HAZARD

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: This site is not indicated to be prone to groundwater flooding.	
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: 4.259mAOD	FROM BREACH LOCATION: FOB002
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_161	THURROCK REF: T06g,h,j,k,l,m,	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plots G,H,J,K,L,M,N,P,Q,R,S		SITE AREA: 113.7 ha



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

VULNERABILITY CLASSIFICATION: Less Vulnerable			
FLOOD ZONES AND HISTORIC FLOODING			
Flood Zone 1 (<0.1% AEP):	0.02%	Flood Zone 2 (0.1% AEP):	1.54%
Flood Zone 3a (1% AEP):	98.41%	Flood Zone 3b (defined in SFRA report):	0.03%
% OF SITE INDICATED TO BE WITHIN FUTURE FLOOD ZONES: 99.98%			
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*: 47.12m			
DG5 RECORDED FLOOD INCIDENTS BY POSTCODE AREA (AREA: NO.): SS17 9:28, SS8 0:0			
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*: 99.71%			
SURFACE WATER FLOODING			
0.1% AEP:	10.68%	1% AEP:	3.26%
3.33%:	2.27%		
0.1% AEP + 40% Climate Change:	12.88%	1% AEP + 40% Climate Change:	4.19%
3.33% AEP + 40% Climate Change:	4.22%		

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

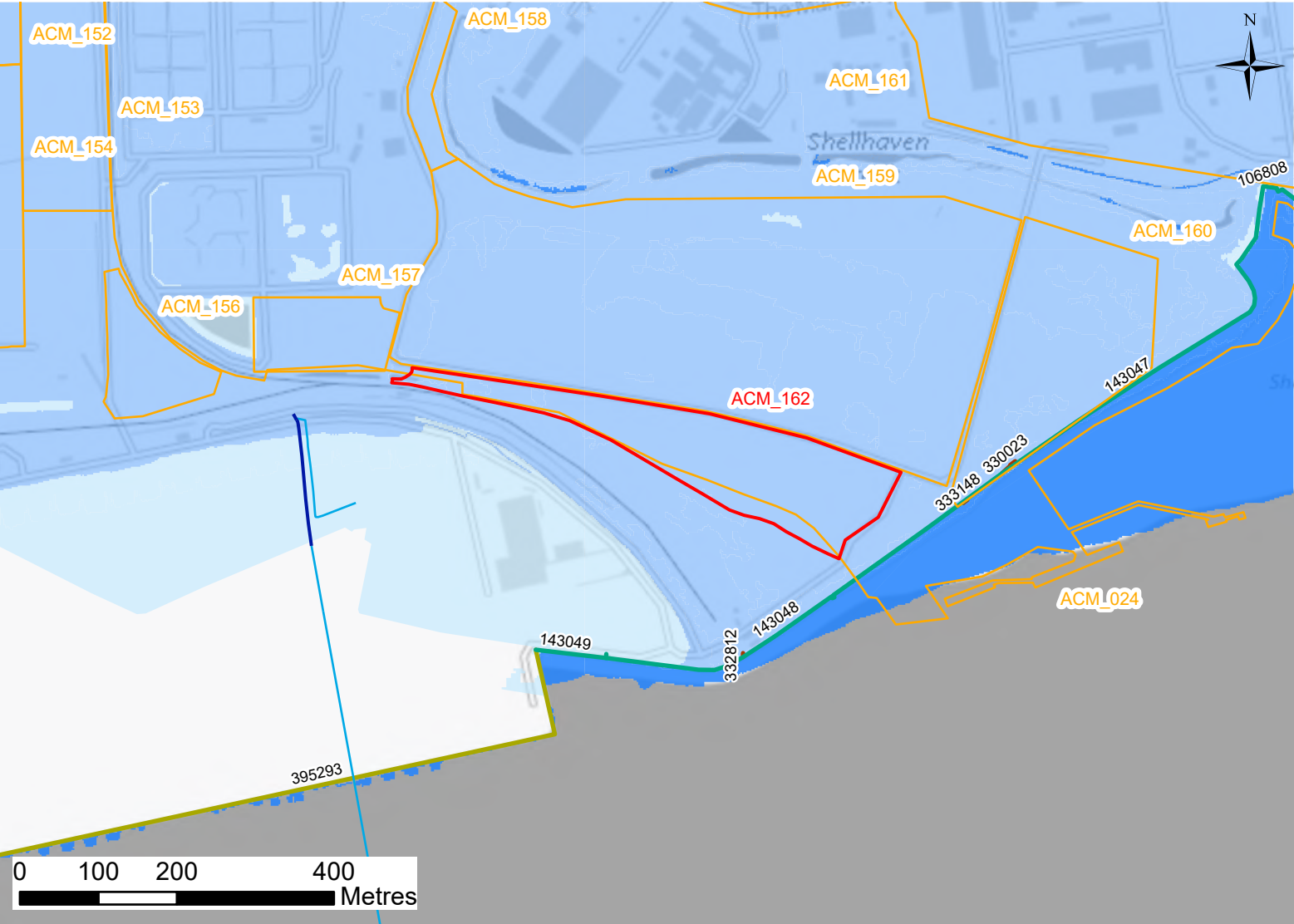
MODELLED OVERTOPPING
0.5% AEP 2125 UPPER END
FLOOD HAZARD

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: This site is not indicated to be prone to groundwater flooding.	
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: 4.416mAOD	FROM BREACH LOCATION: FOB003
OVERTOPPING (0.5% AEP INCLUDING 2125 UPPER END CLIMATE CHANGE ALLOWANCE)	
MAXIMUM WATER LEVEL: 3.219mAOD	
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_162	THURROCK REF: T06c	NEIGHBOURHOOD: n/a
SITE NAME: Masterplan Plot C		SITE AREA: 4.47 ha



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

VULNERABILITY CLASSIFICATION: Less 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: 1953 Coast Flood Outline Essex			
PROXIMITY TO CLOSEST WATERCOURSE*: 120.03m			
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:	16.77%	1% AEP:	4.23%
3.33%:	1.46%		
0.1% AEP + 40% Climate Change:	18.85%	1% AEP + 40% Climate Change:	7.99%
3.33% AEP + 40% Climate Change:	3.44%		

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: Alluvium	
BGS SUSCEPTIBILITY TO GROUNDWATER FLOODING ON SITE: This site is not indicated to be prone to groundwater flooding.	
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: 4.744mAOD	FROM BREACH LOCATION: FOB002
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%