



Kingborough

KINGBOROUGH COUNCIL

KINGSTON BEACH FLOOD MITIGATION INVESTIGATION

FINAL REPORT



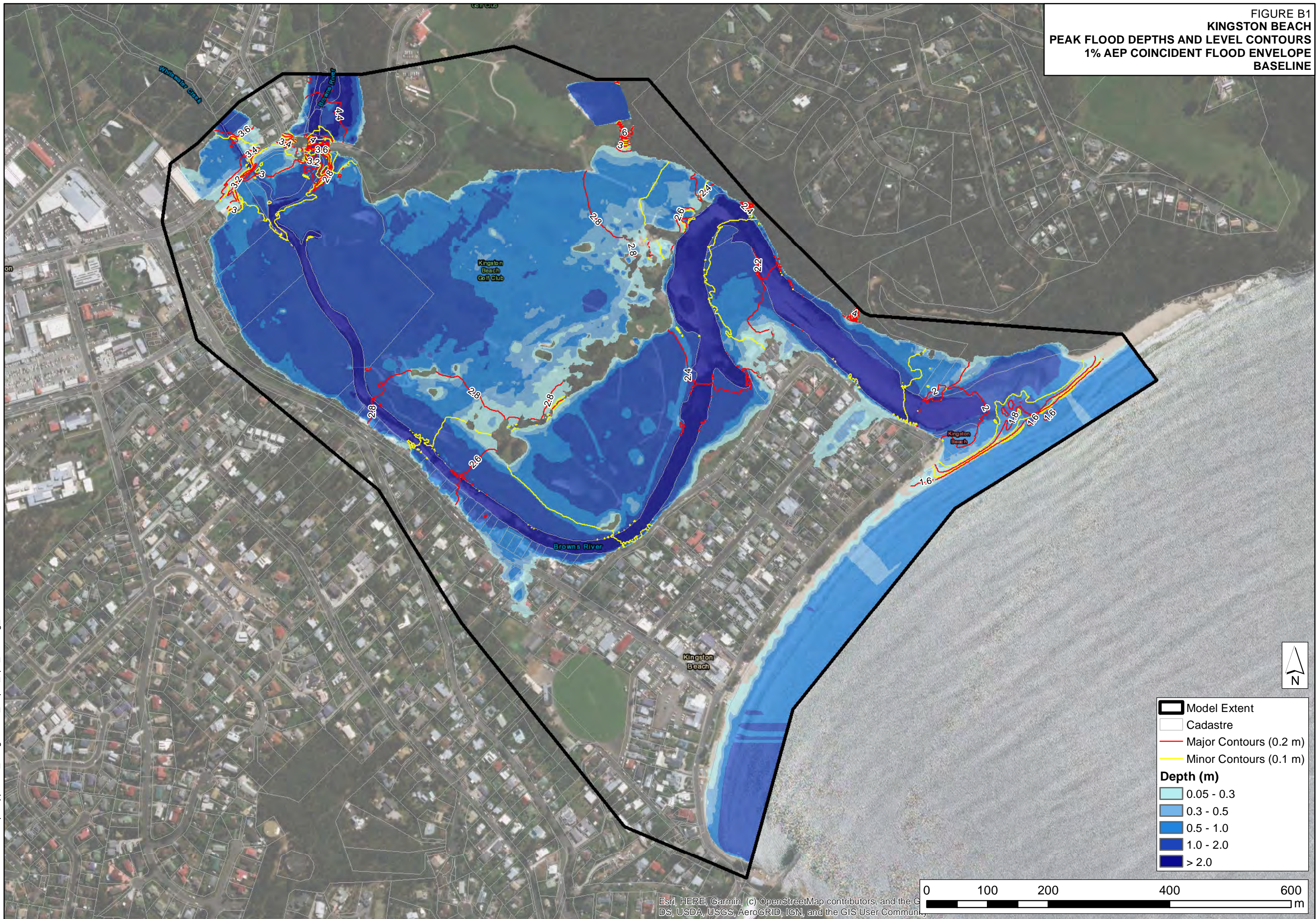
NOVEMBER 2021

APPENDIX B. DESIGN FLOOD MAPPING



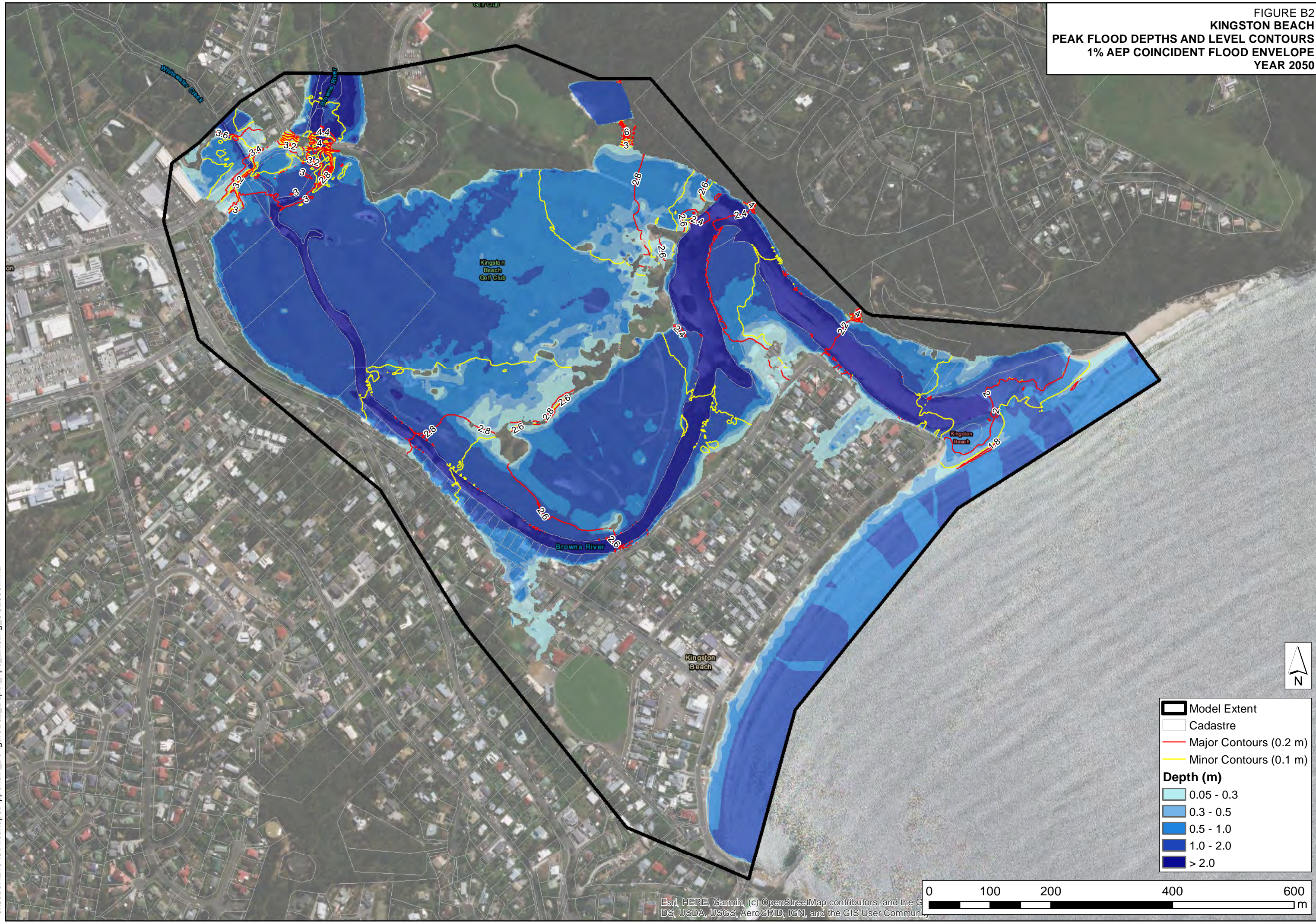
Appendix B

**FIGURE B1
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENT FLOOD ENVELOPE
BASELINE**

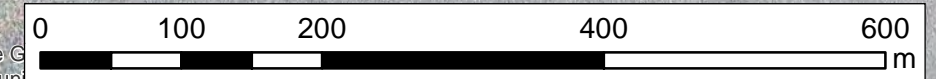


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**FIGURE B2
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2050**

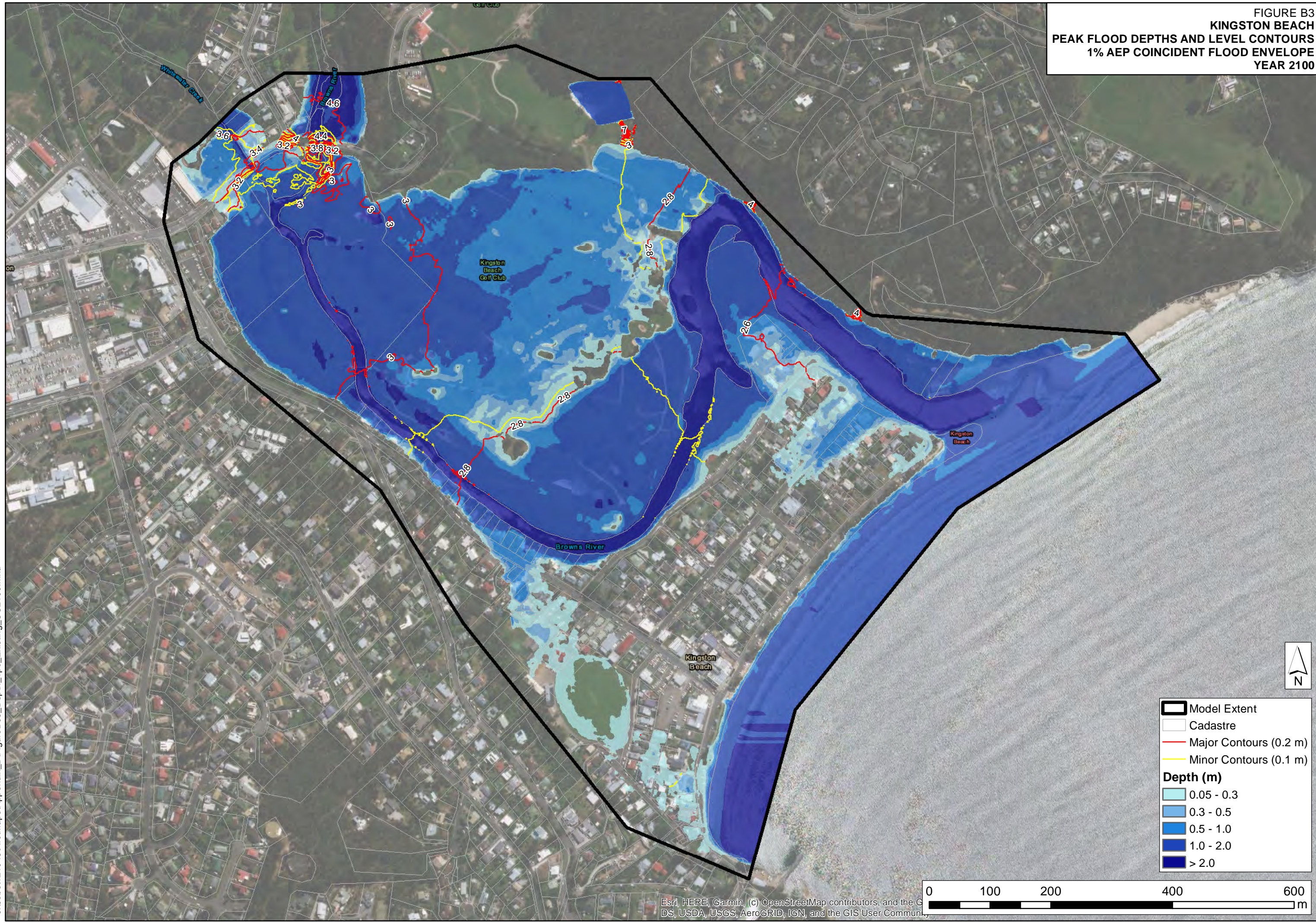


	Model Extent
	Cadastrate
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



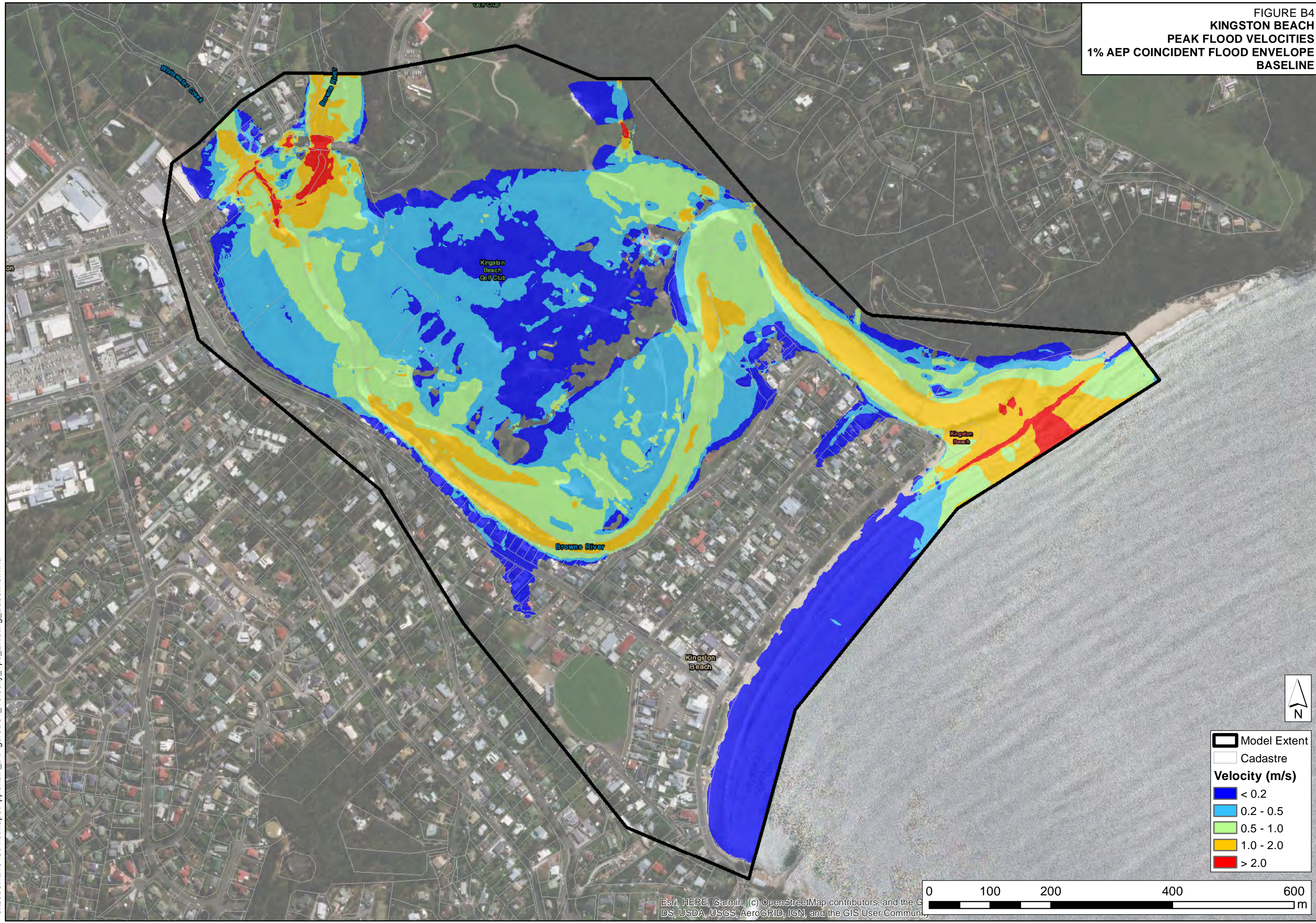
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GDAL, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**FIGURE B3
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2100**



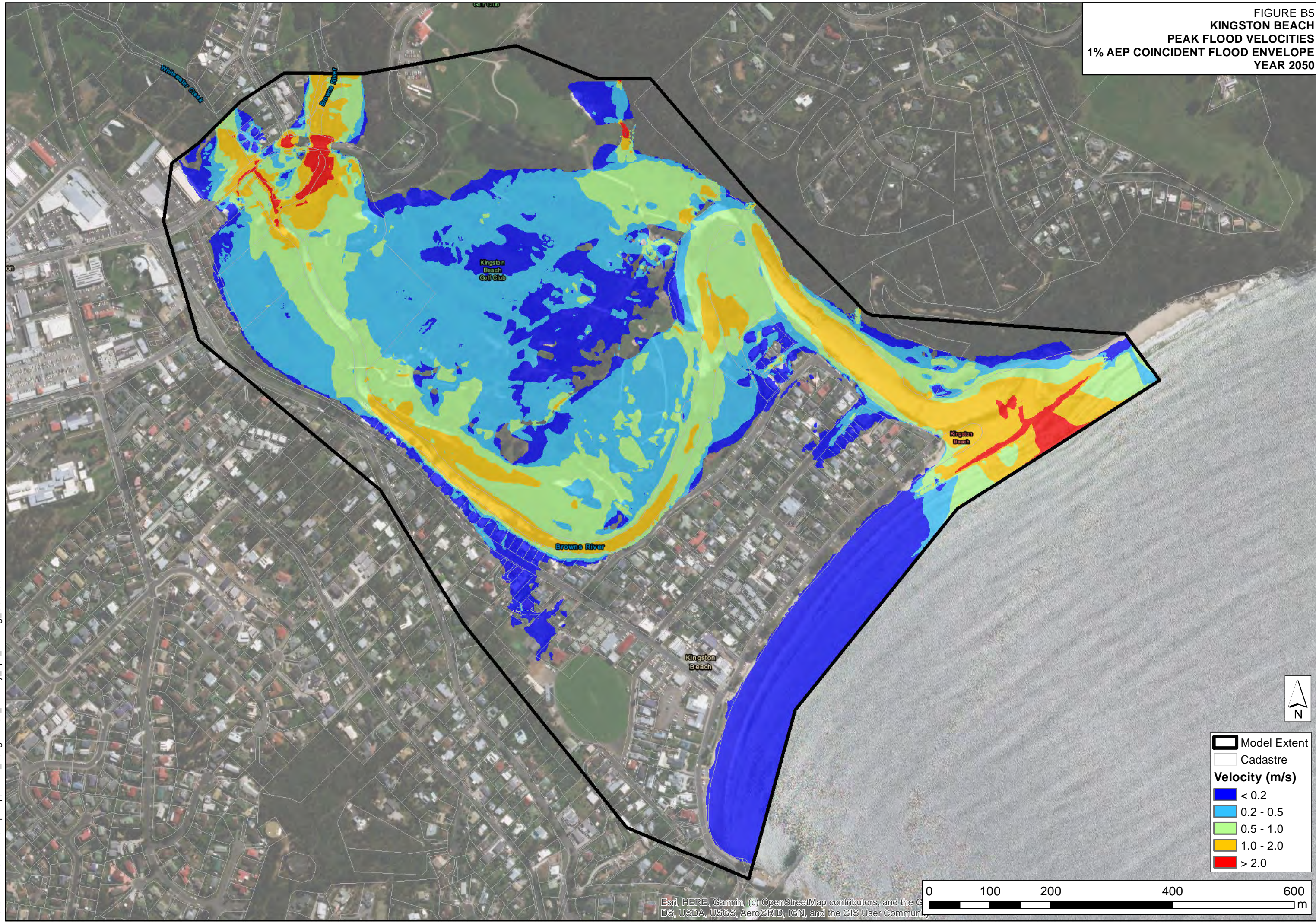
J:\Jobs\121043\ArcMaps\Appendix_B\FigureB03_Depth_1pc_Existing_CC2100.mxd

FIGURE B4
KINGSTON BEACH
PEAK FLOOD VELOCITIES
1% AEP COINCIDENT FLOOD ENVELOPE
BASELINE



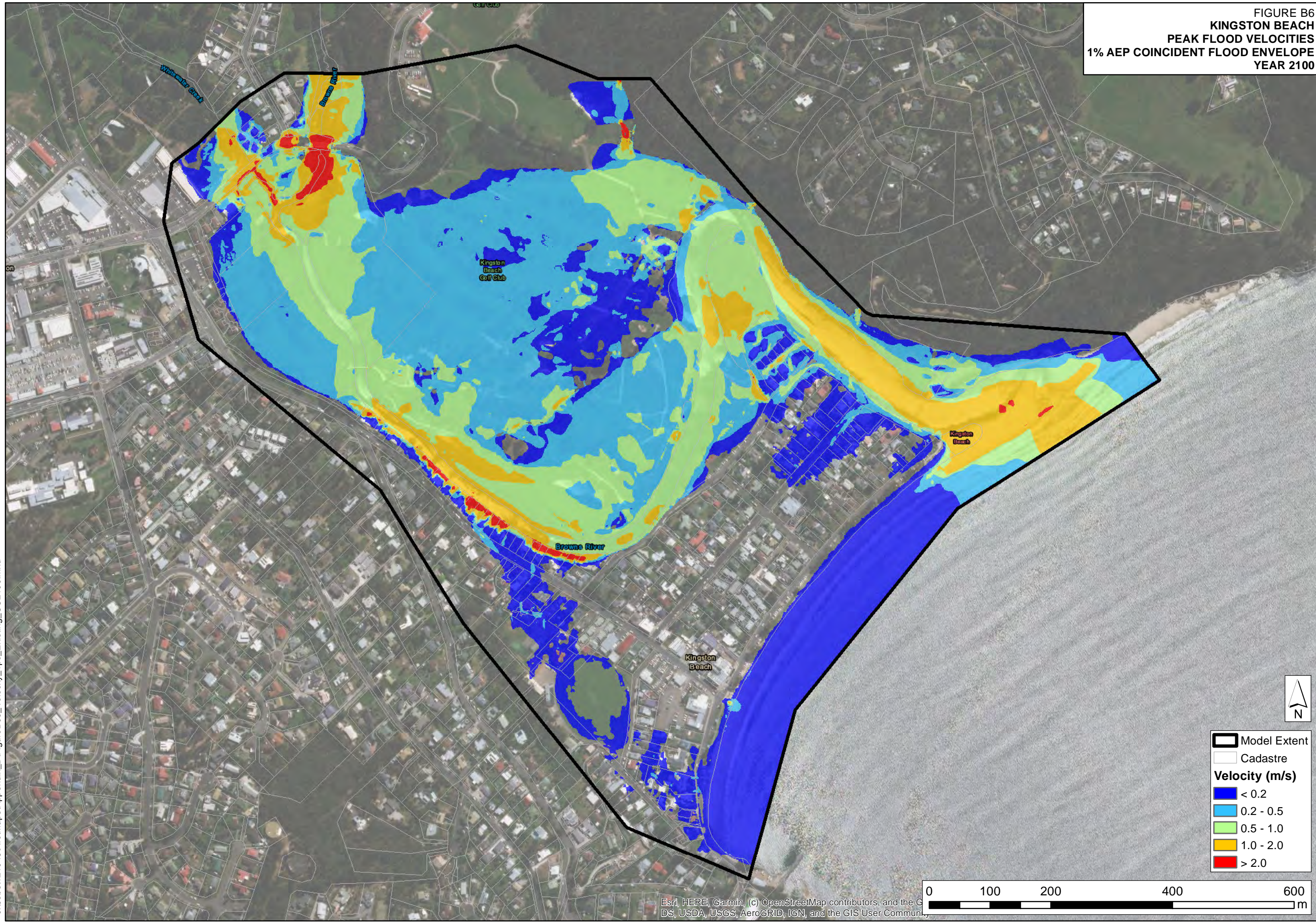
J:\Jobs\121043\ArcMaps\Appendix_B\FigureB04_Velocity_1pc_Existing_Baseline.mxd

FIGURE B5
KINGSTON BEACH
PEAK FLOOD VELOCITIES
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2050



J:\Jobs\121043\ArcMaps\Appendix_B\FigureB05_Velocity_1pc_Existing_CC2050.mxd

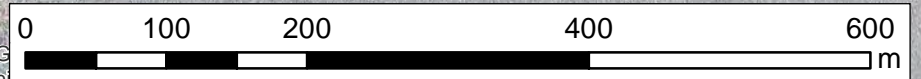
FIGURE B6
KINGSTON BEACH
PEAK FLOOD VELOCITIES
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2100



Model Extent
Cadastrate

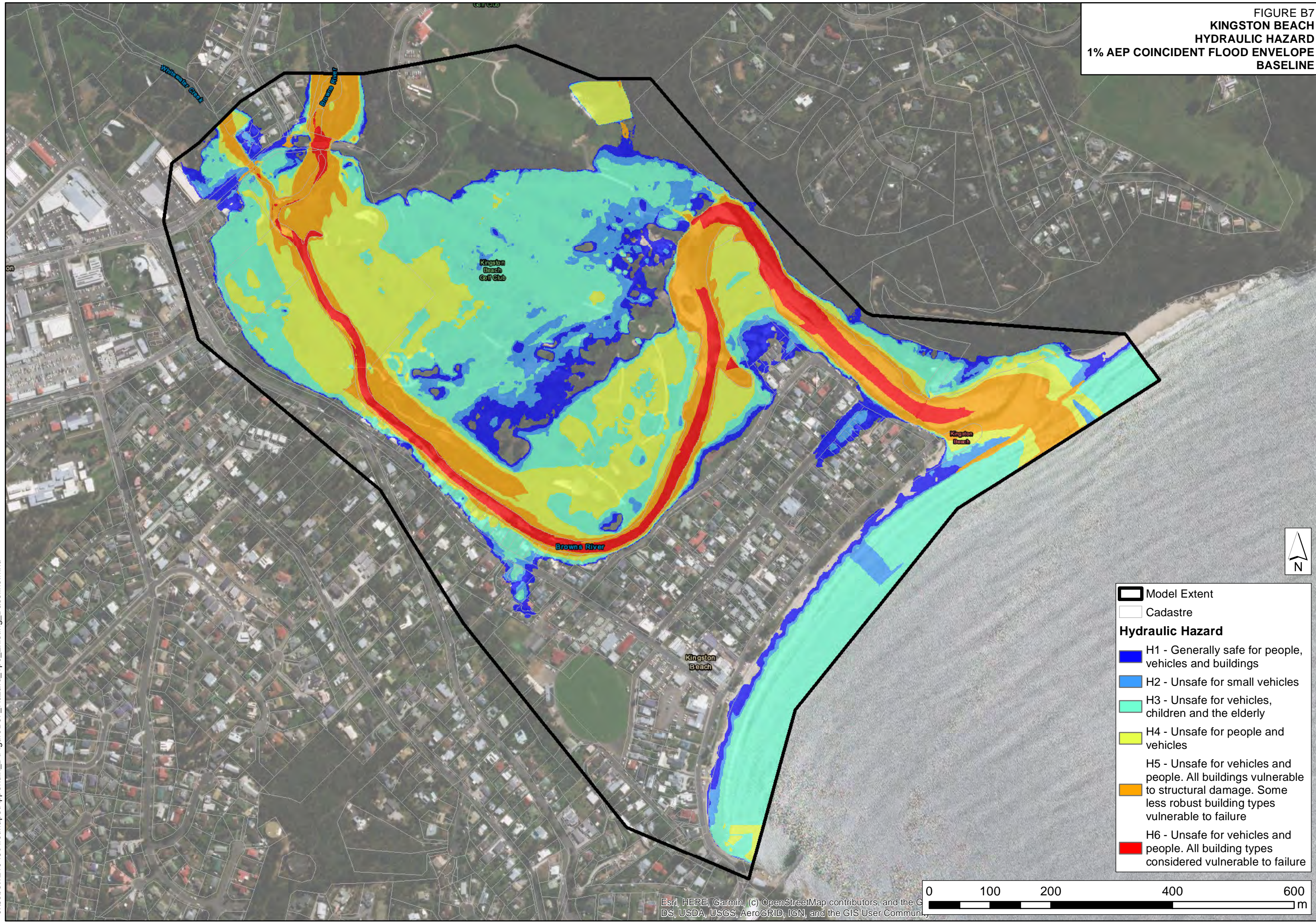
Velocity (m/s)

- <math>< 0.2</math>
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0



J:\Jobs\121043\ArcMaps\Appendix_B\FigureB06_Velocity_1pc_Existing_CC2100.mxd

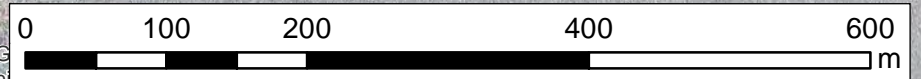
FIGURE B7
**KINGSTON BEACH
 HYDRAULIC HAZARD
 1% AEP COINCIDENT FLOOD ENVELOPE
 BASELINE**



Model Extent
 Cadastre

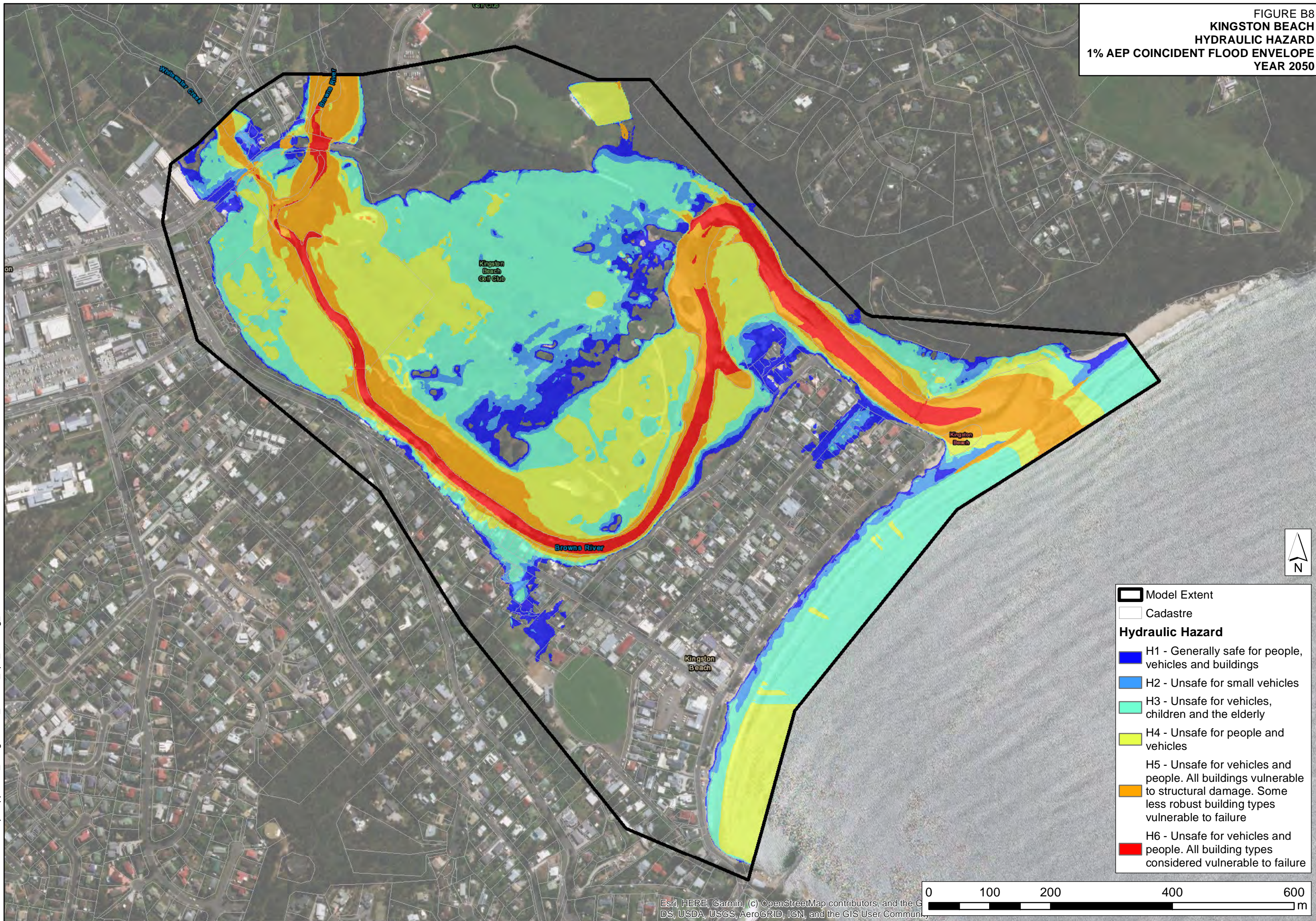
Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

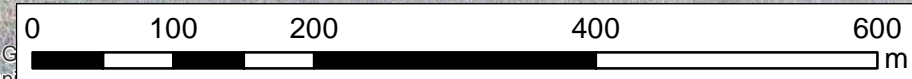


J:\Jobs\121043\ArcMaps\Appendix_B\FigureB07_Hazard_1pc_Existing_Baseline.mxd

FIGURE B8
KINGSTON BEACH
HYDRAULIC HAZARD
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2050

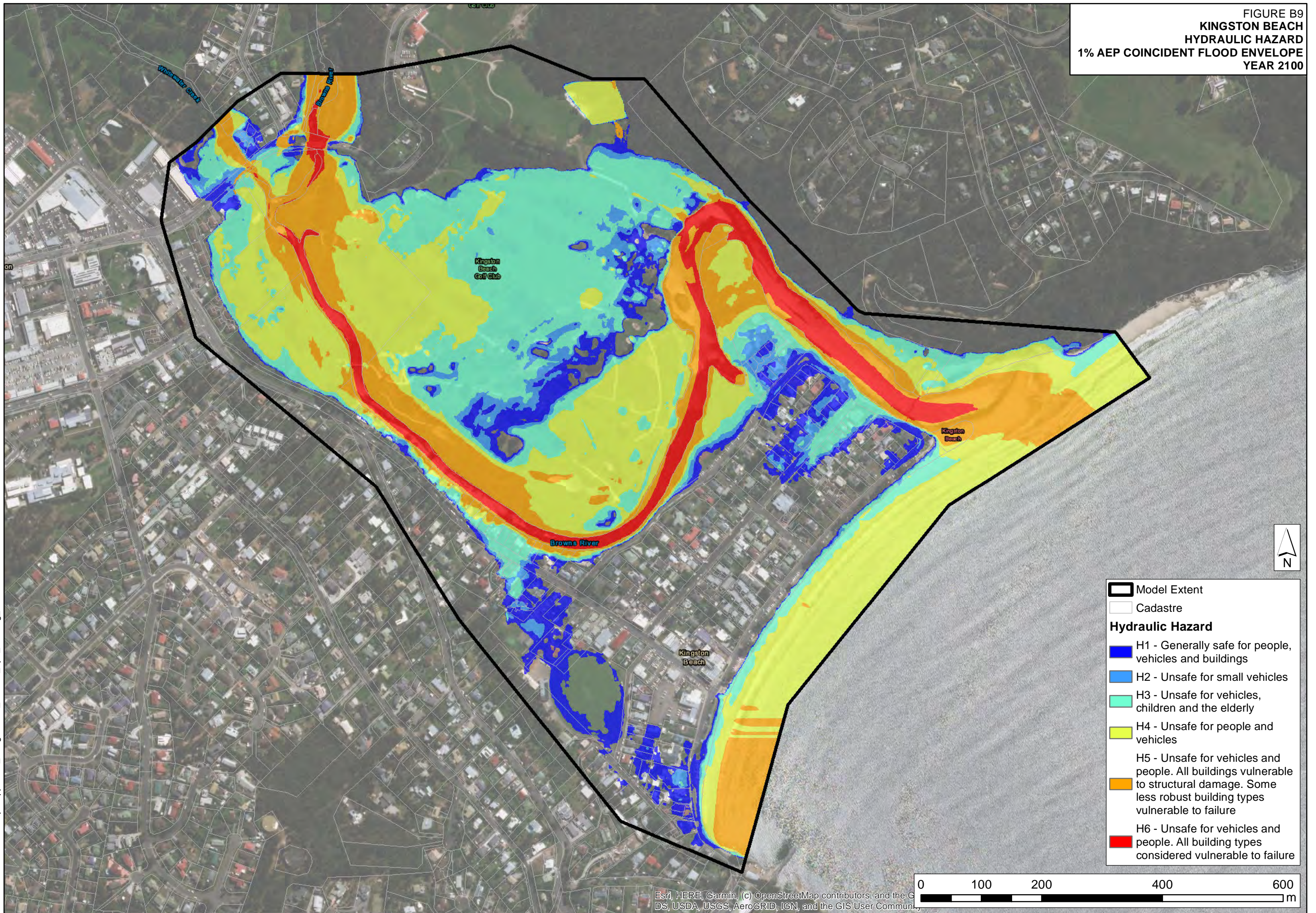


- Model Extent
- Cadastre
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure



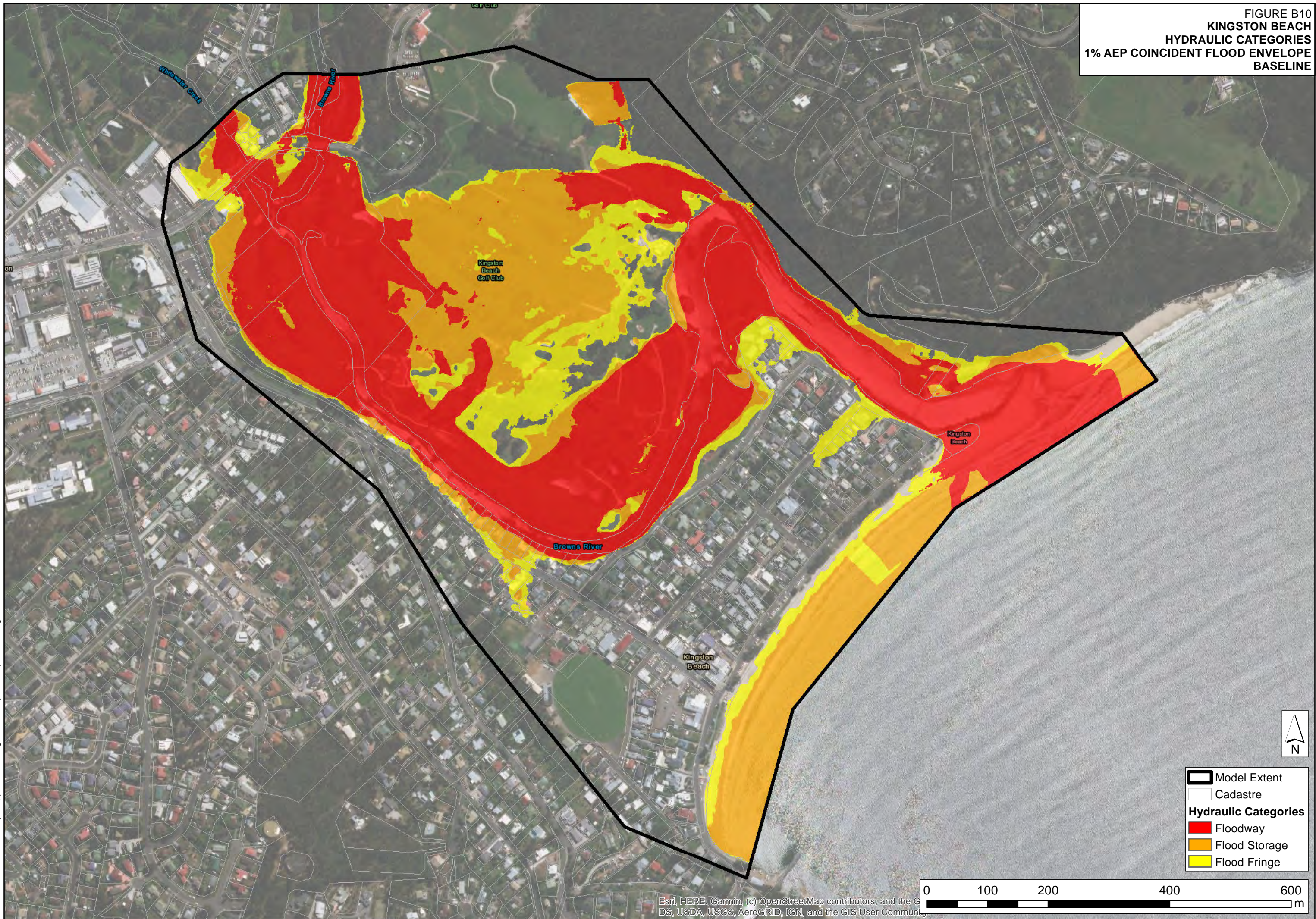
J:\Jobs\121043\ArcMaps\Appendix_B\FigureB08_Hazard_1pc_Existing_CC2050.mxd

FIGURE B9
**KINGSTON BEACH
 HYDRAULIC HAZARD
 1% AEP COINCIDENT FLOOD ENVELOPE
 YEAR 2100**



J:\Jobs\121043\ArcMaps\Appendix_B\FigureB09_Hazard_1pc_Existing_CC2100.mxd

FIGURE B10
KINGSTON BEACH
HYDRAULIC CATEGORIES
1% AEP COINCIDENT FLOOD ENVELOPE
BASELINE



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FIGURE B11
KINGSTON BEACH
HYDRAULIC CATEGORIES
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2050

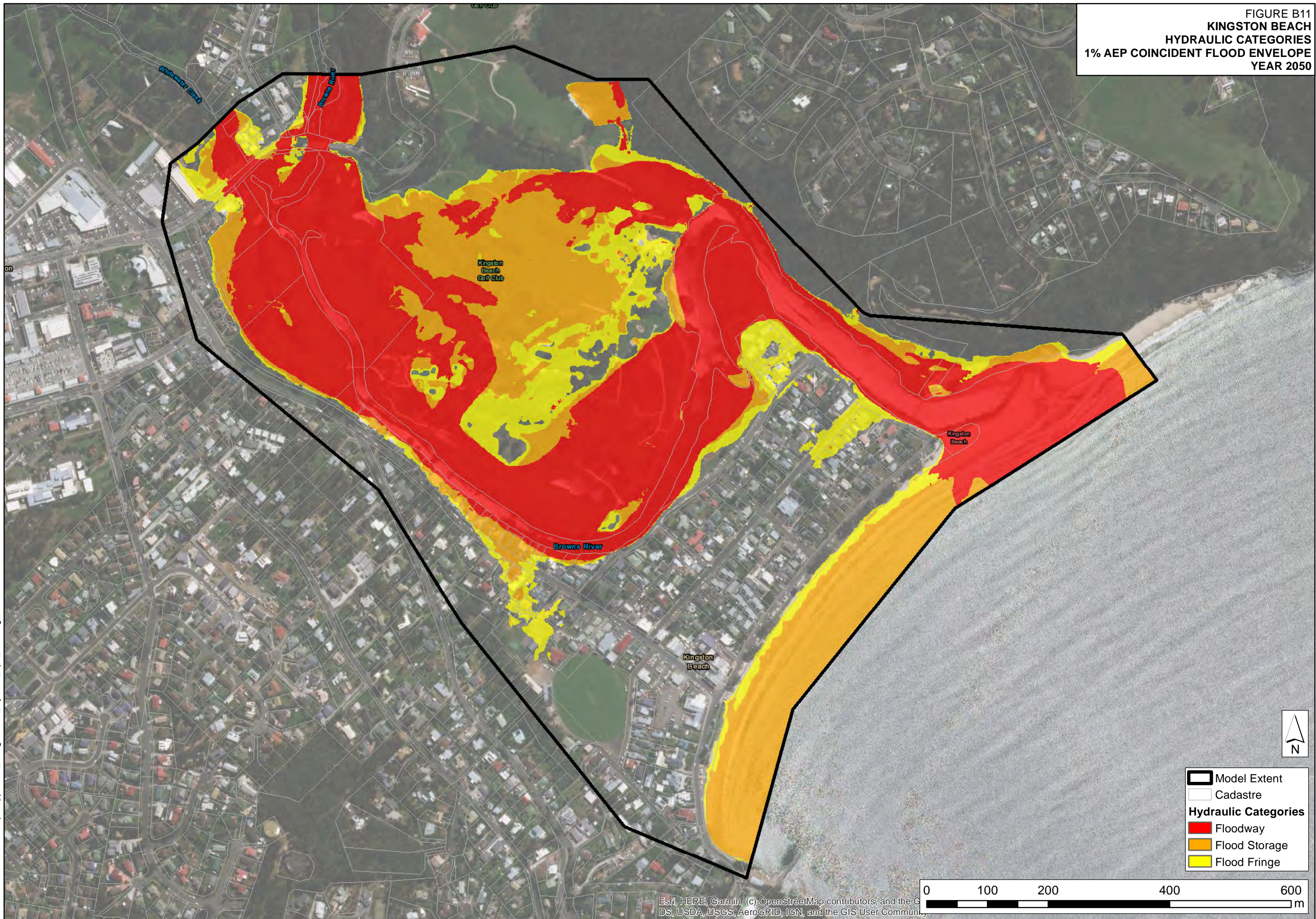
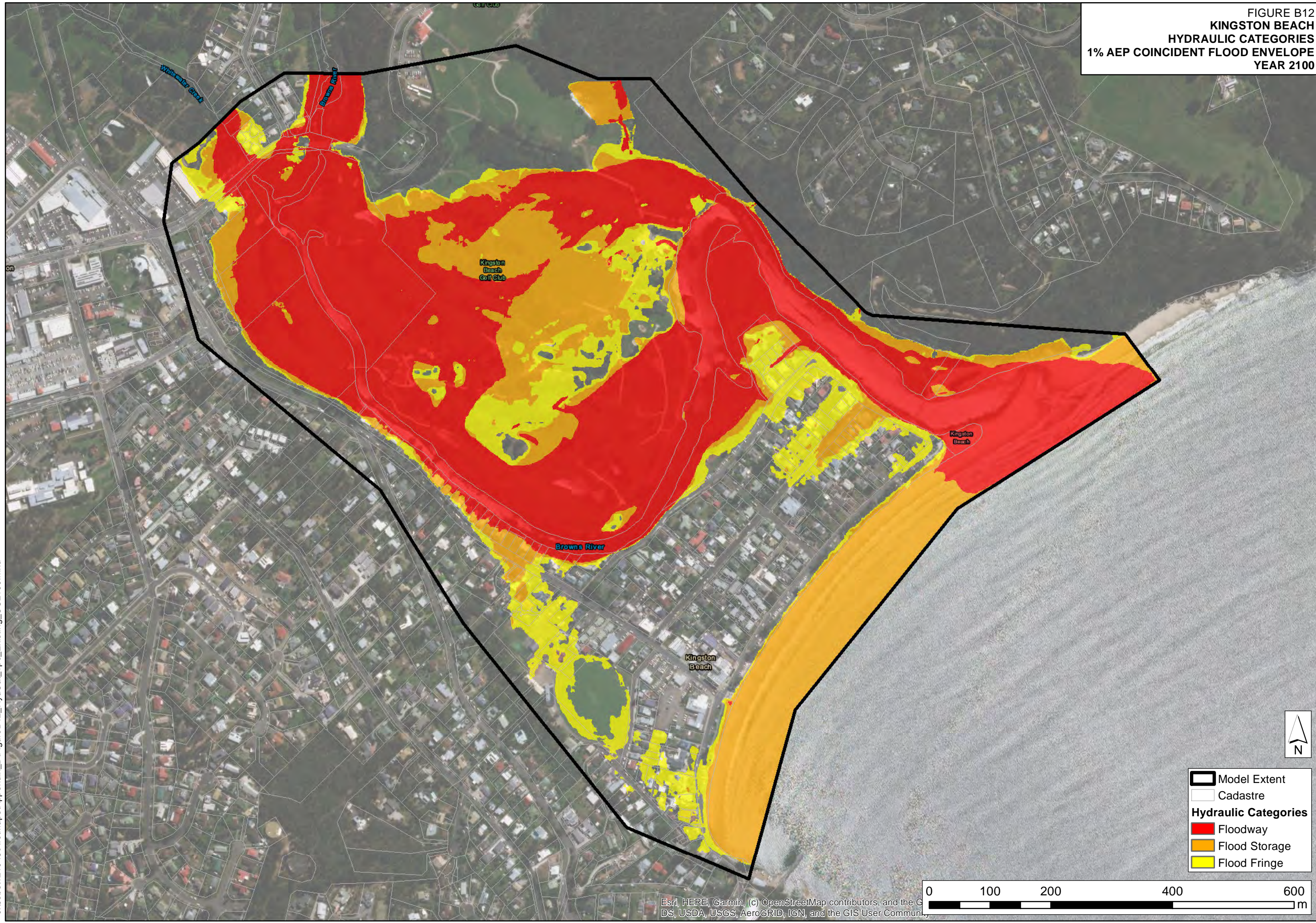


FIGURE B12
KINGSTON BEACH
HYDRAULIC CATEGORIES
1% AEP COINCIDENT FLOOD ENVELOPE
YEAR 2100



- Model Extent
- Cadastral
- Hydraulic Categories**
- Floodway
- Flood Storage
- Flood Fringe

0 100 200 400 600 m

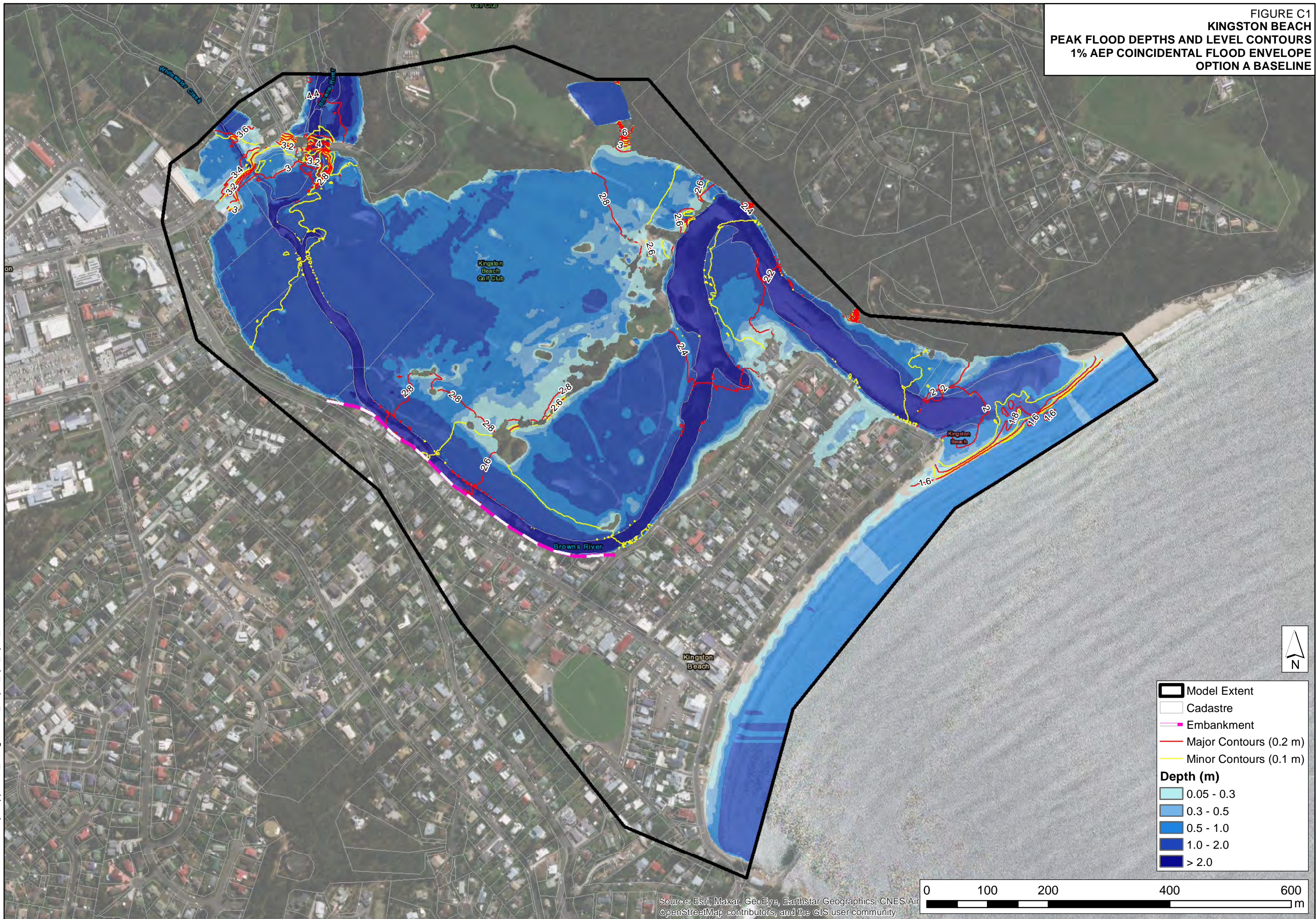
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS User Community

APPENDIX C. MITIGATION ASSESSMENT FLOOD MAPPING



Appendix C

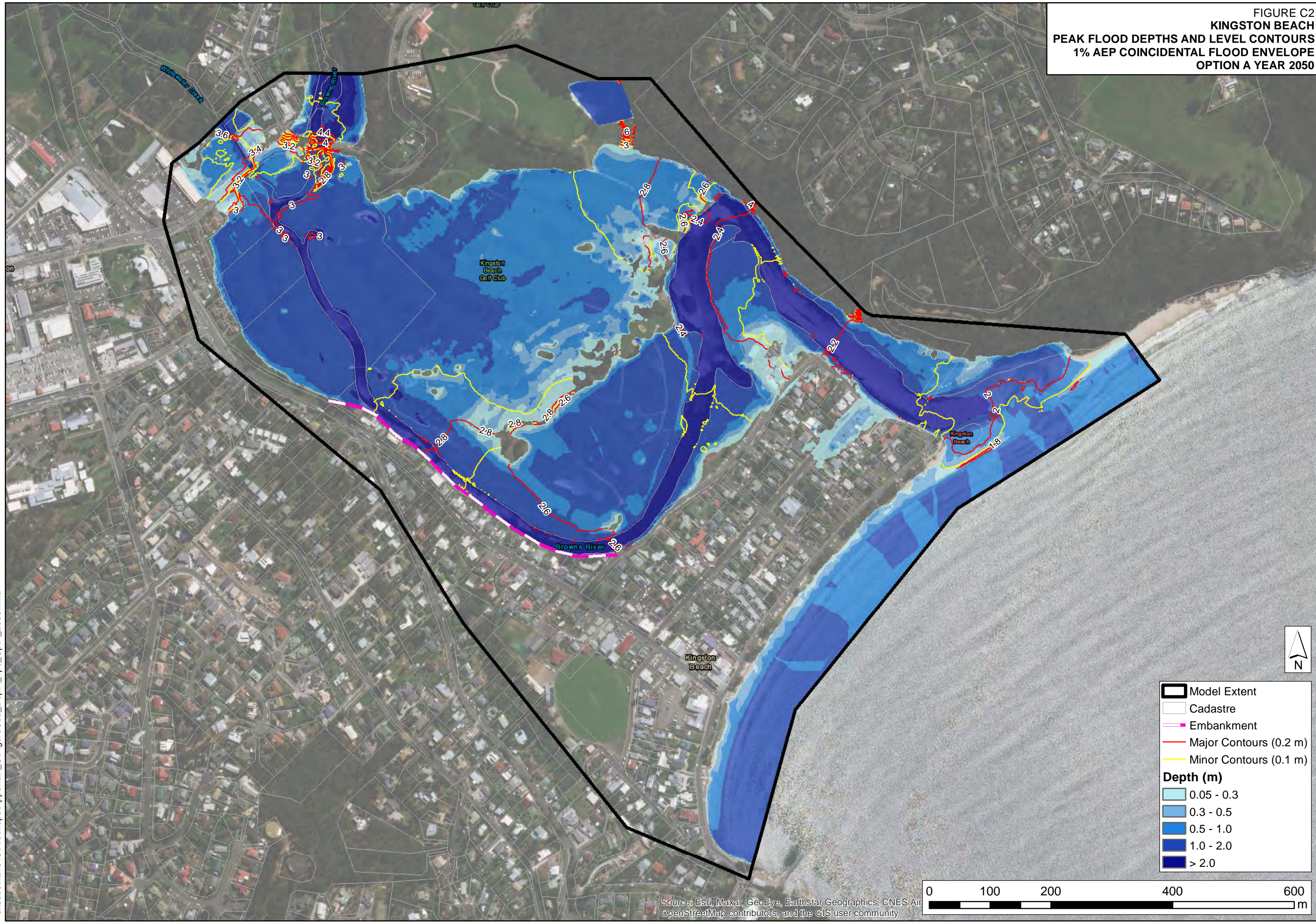
FIGURE C1
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A BASELINE



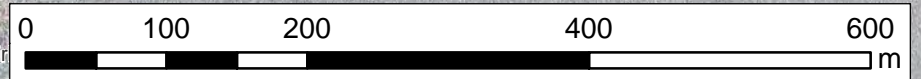
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

FIGURE C2
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A YEAR 2050



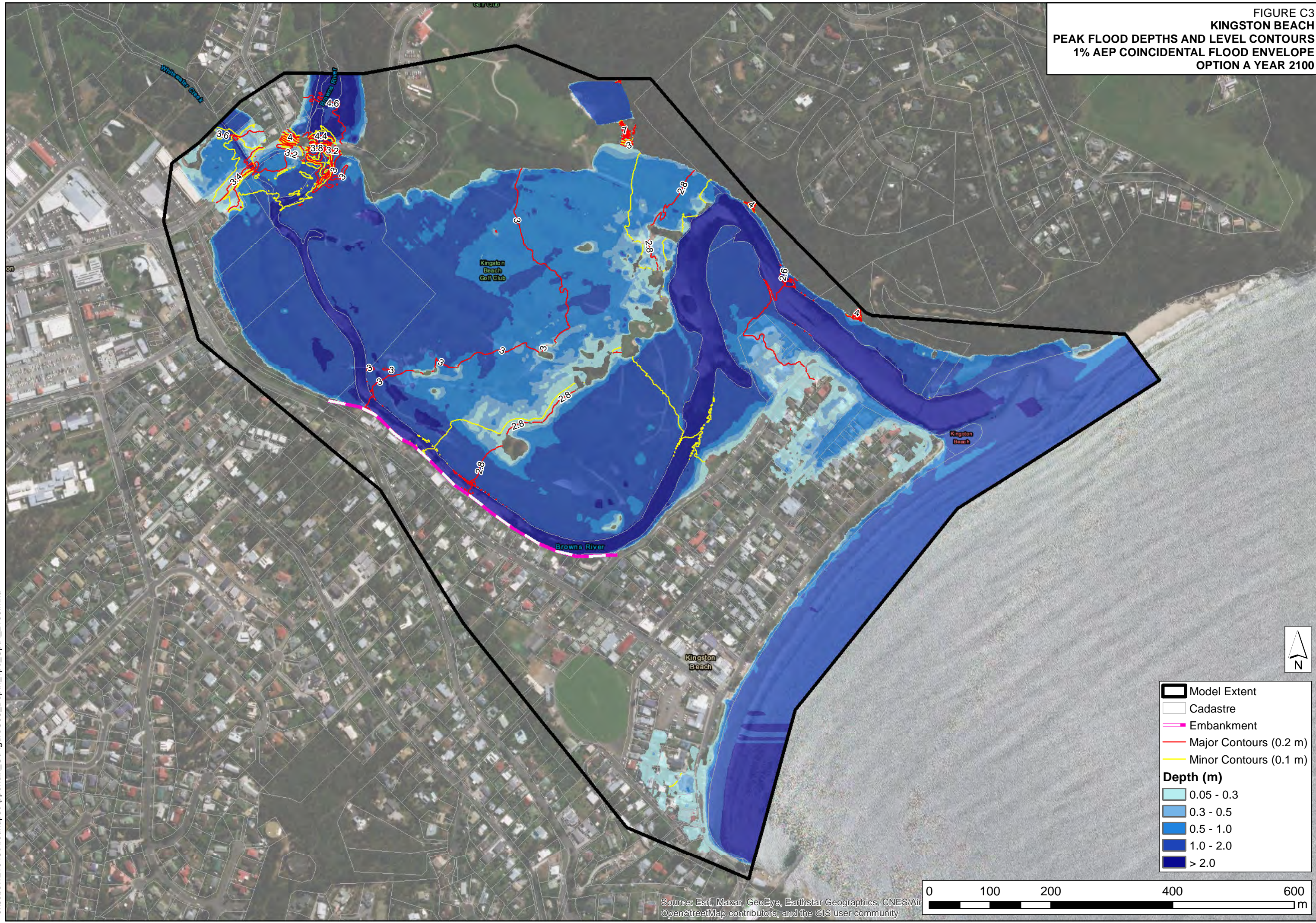
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



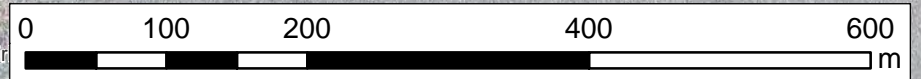
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC02_Depth_1pc_OptA_2050.mxd

FIGURE C3
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A YEAR 2100



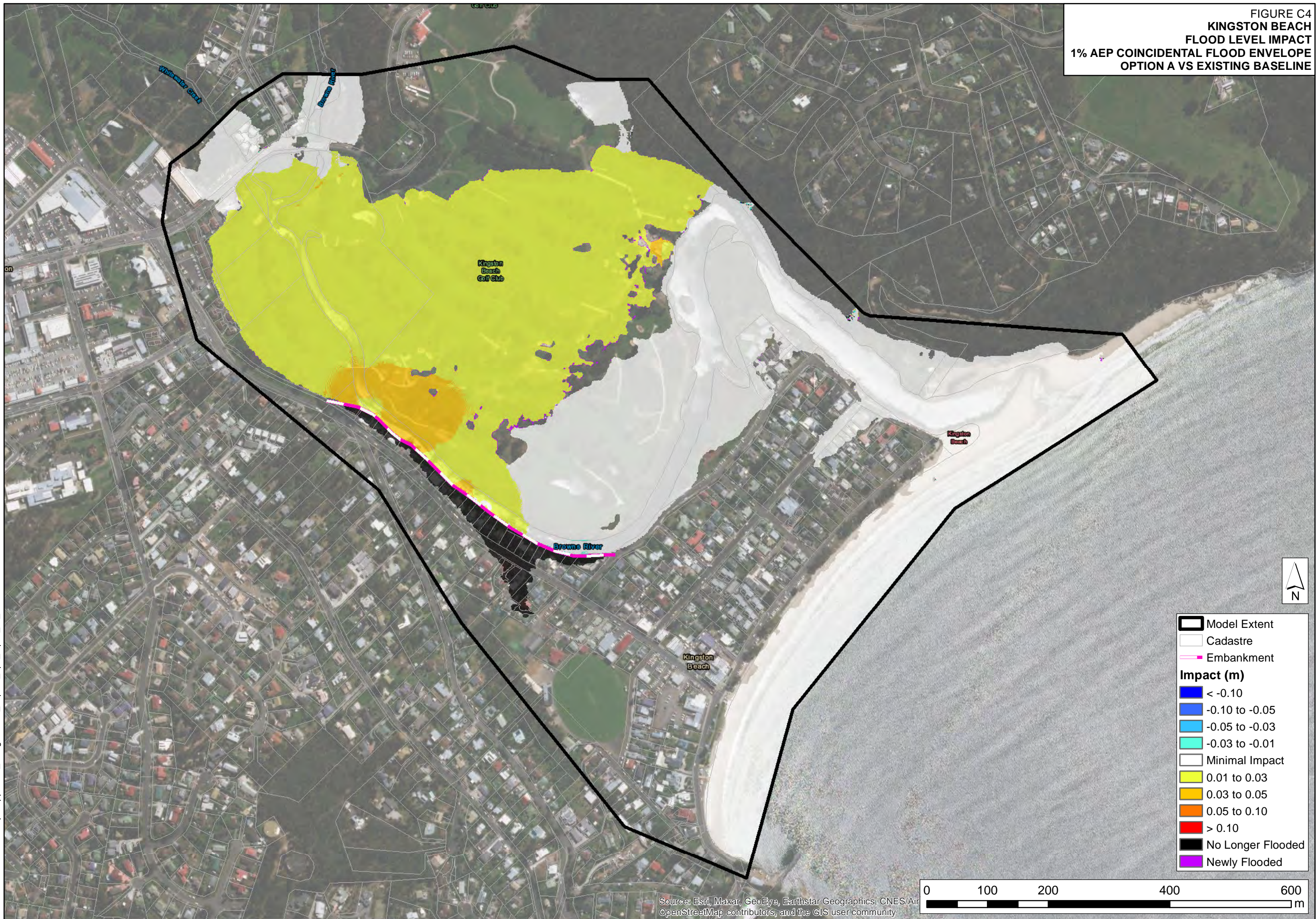
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC03_Depth_1pc_OptA_2100.mxd

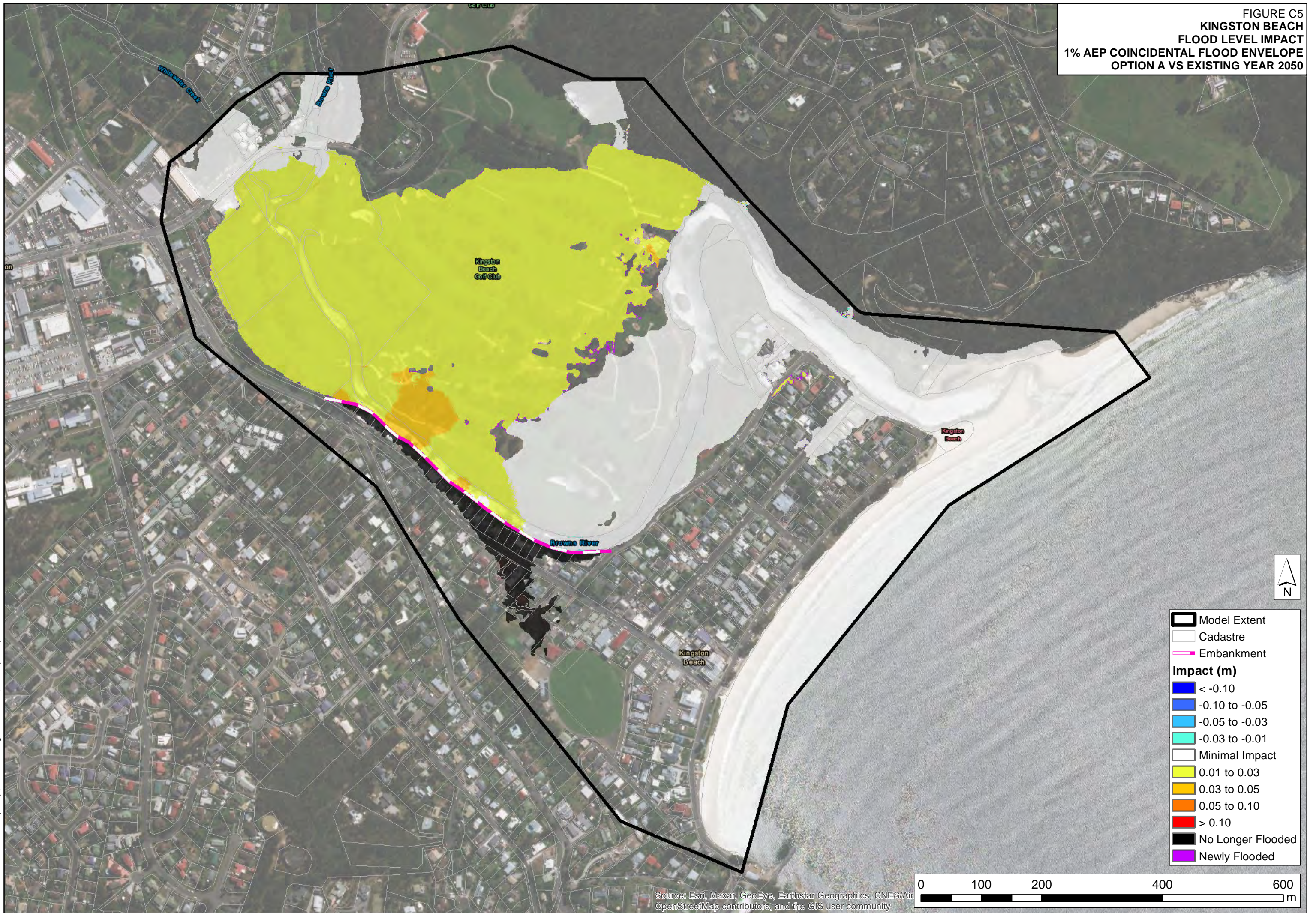
**FIGURE C4
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A VS EXISTING BASELINE**



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC04_Impact_1pc_OptA_vs_Baseline.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
OpenStreetMap contributors, and the GIS user community

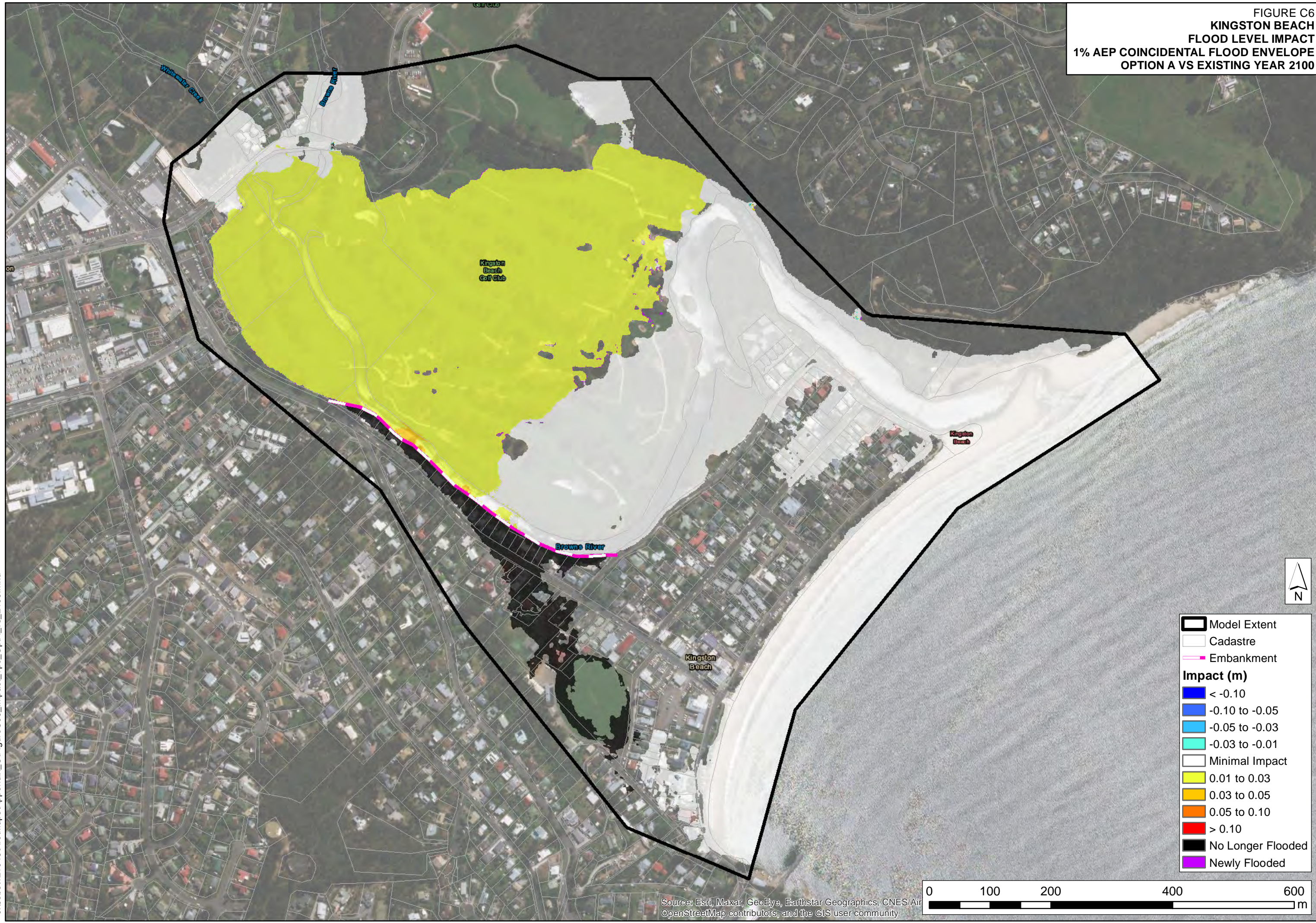
**FIGURE C5
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A VS EXISTING YEAR 2050**



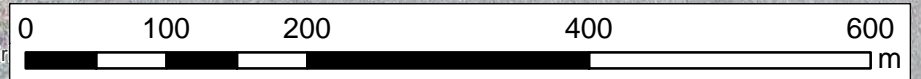
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

**FIGURE C6
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION A VS EXISTING YEAR 2100**



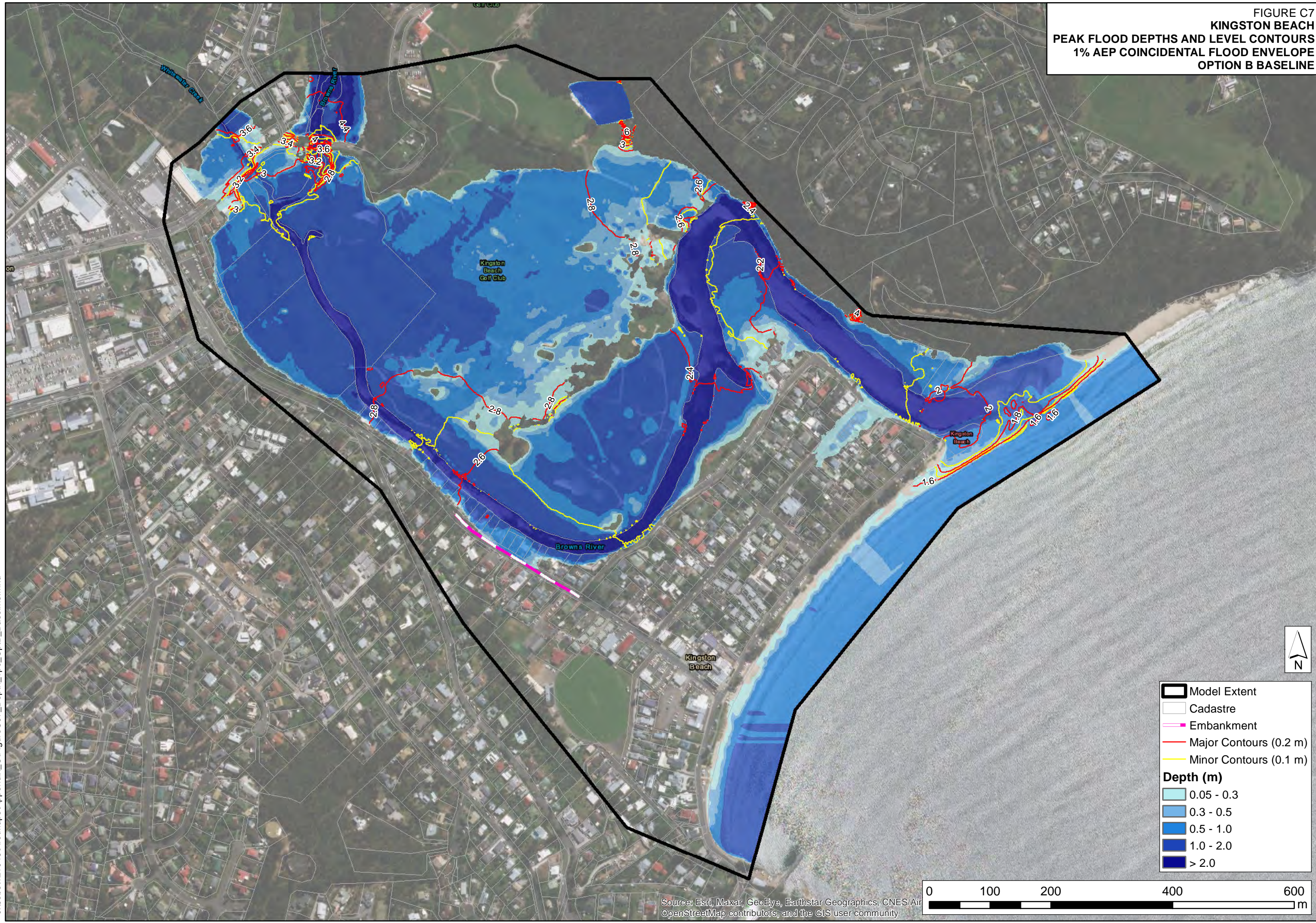
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



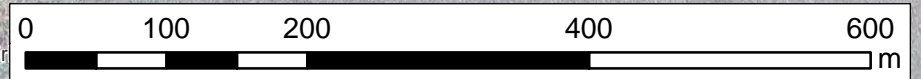
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC06_Impact_1pc_OptA_vs_2100.mxd

**FIGURE C7
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION B BASELINE**



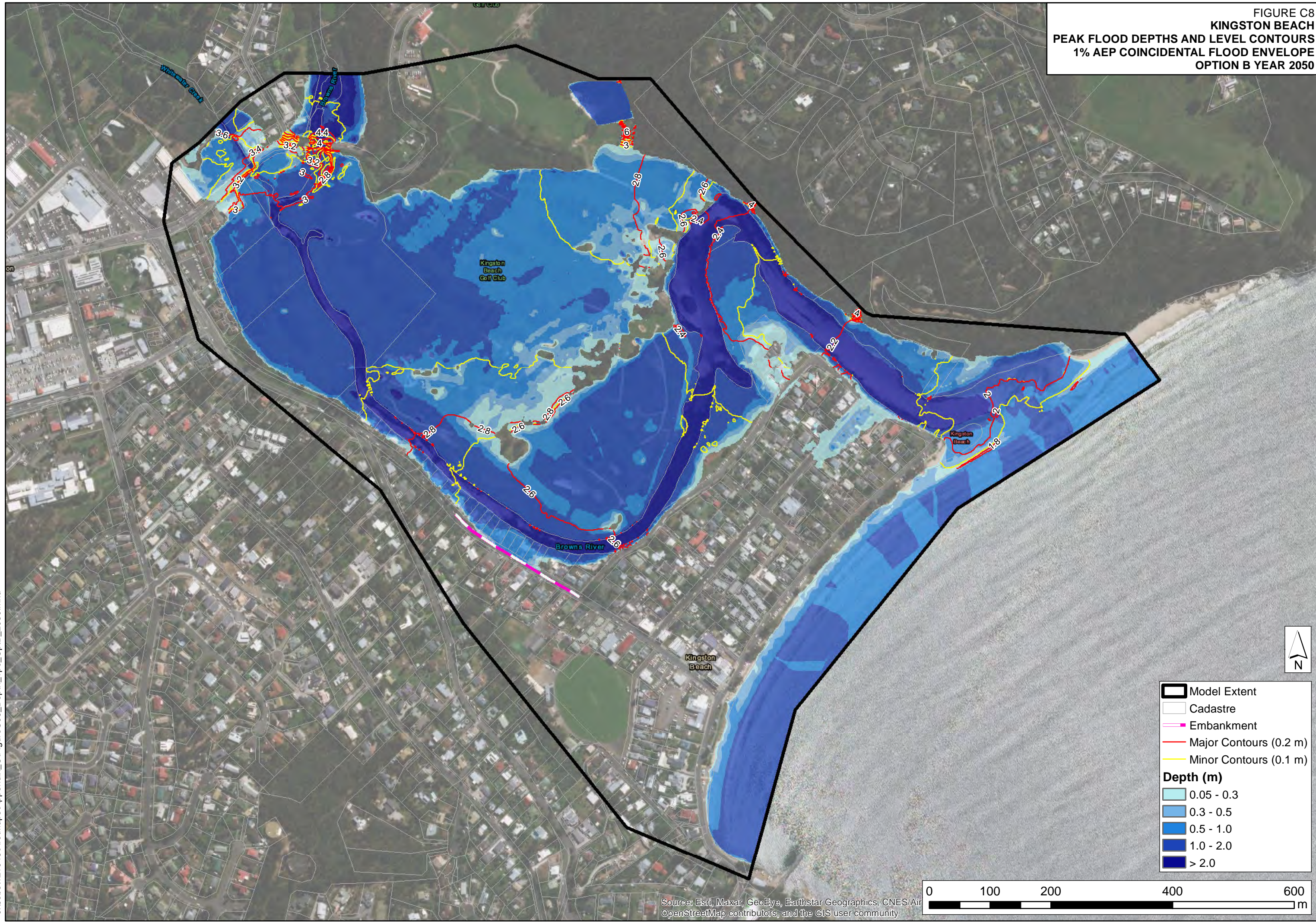
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



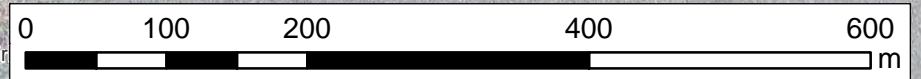
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC07_Depth_1pc_OptB_Baseline.mxd

FIGURE C8
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION B YEAR 2050



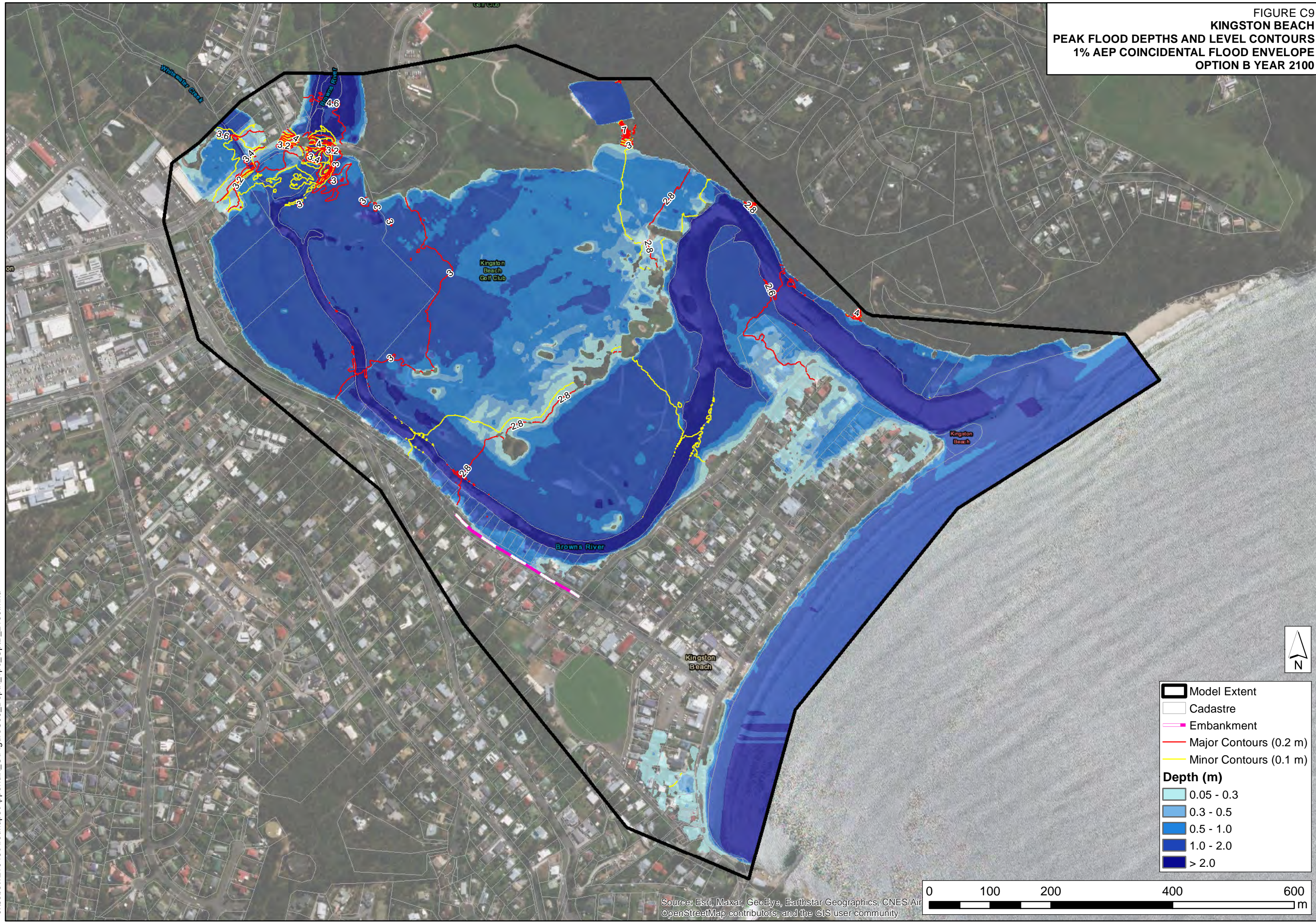
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



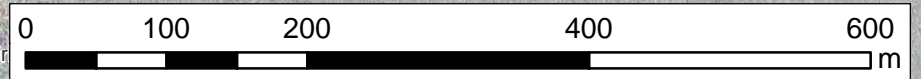
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC08_Depth_1pc_OptB_2050.mxd

FIGURE C9
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION B YEAR 2100



	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



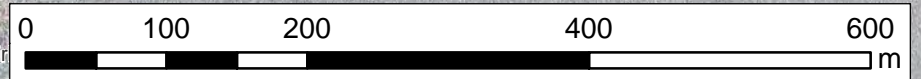
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC09_Depth_1pc_OptB_2100.mxd

FIGURE C10
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION B VS EXISTING BASELINE



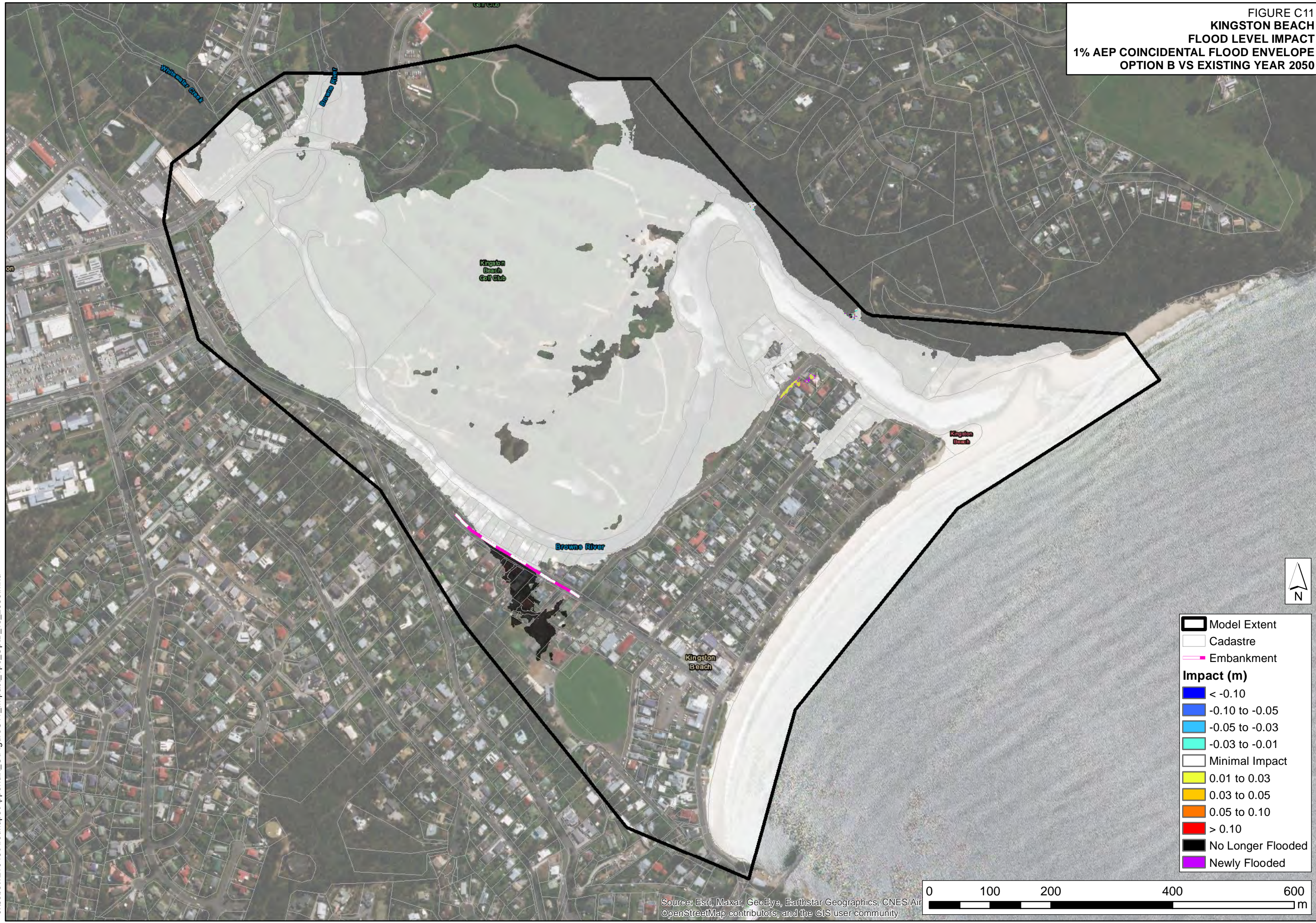
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC10_Impact_1pc_OptB_vs_Baseline.mxd

FIGURE C11
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION B VS EXISTING YEAR 2050



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC11_Impact_1pc_OptB_vs_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

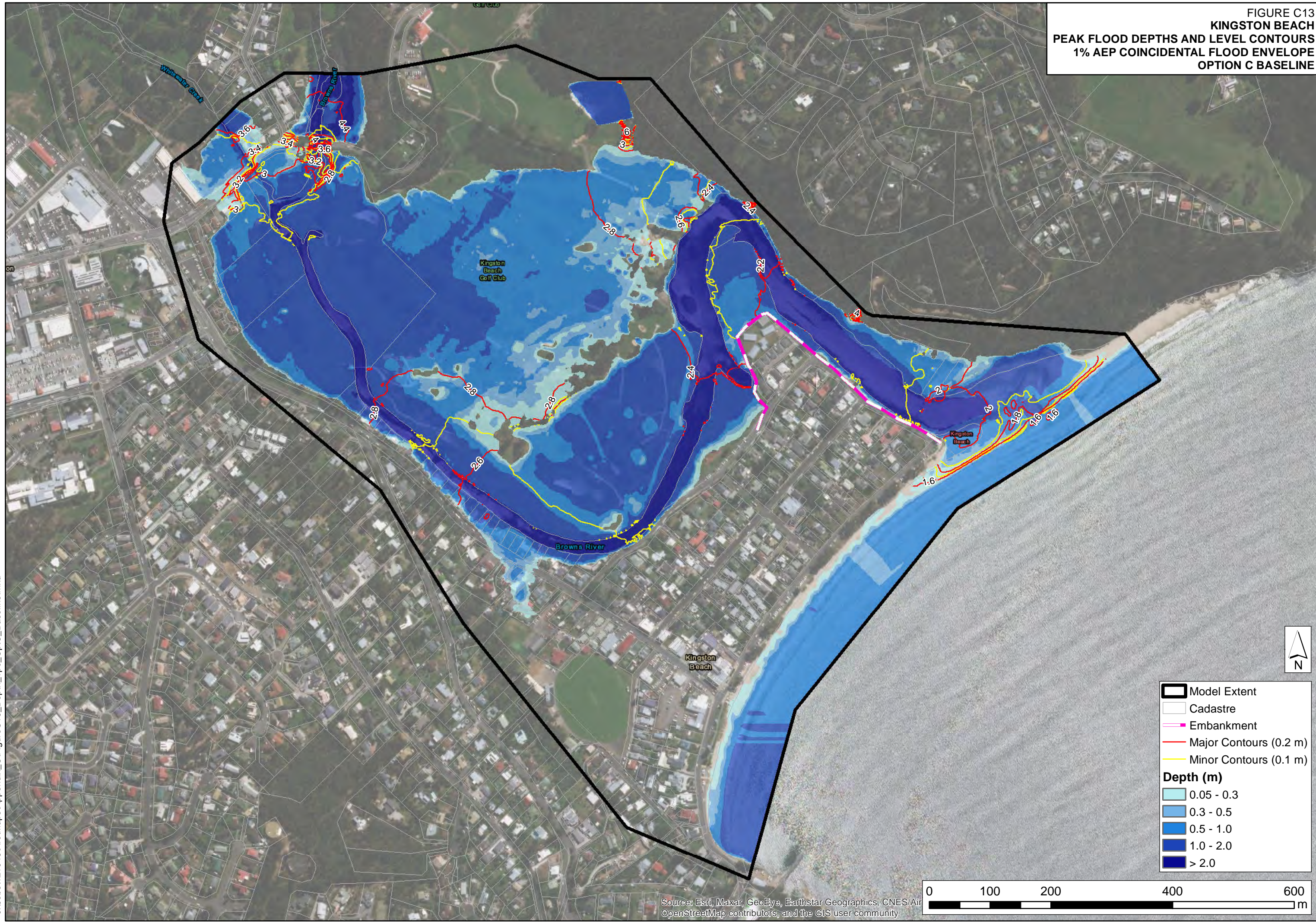
FIGURE C12
**KINGSTON BEACH
 FLOOD LEVEL IMPACT
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION B VS EXISTING YEAR 2100**



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC12_Impact_1pc_OptB_vs_2100.mxd

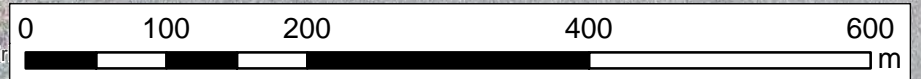
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C13
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION C BASELINE



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC13_Depth_1pc_OptC_Baseline.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community



Model Extent
 [Black outline symbol]

Cadastre
 [Thin grey line symbol]

Embankment
 [Pink dashed line symbol]

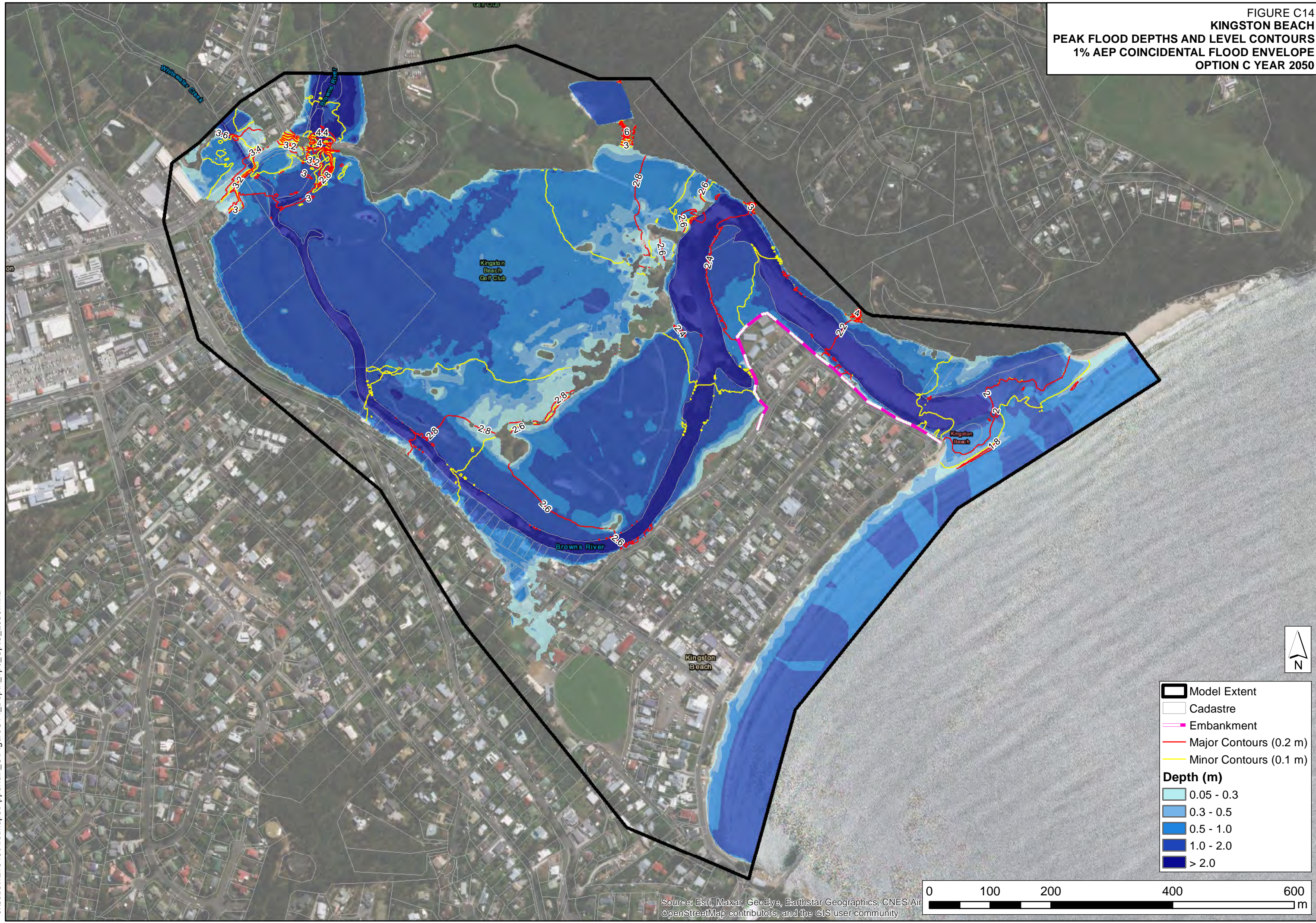
Major Contours (0.2 m)
 [Red solid line symbol]

Minor Contours (0.1 m)
 [Yellow solid line symbol]

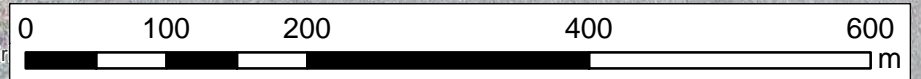
Depth (m)

[Lightest blue swatch]	0.05 - 0.3
[Light blue swatch]	0.3 - 0.5
[Medium blue swatch]	0.5 - 1.0
[Dark blue swatch]	1.0 - 2.0
[Darkest blue swatch]	> 2.0

FIGURE C14
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION C YEAR 2050



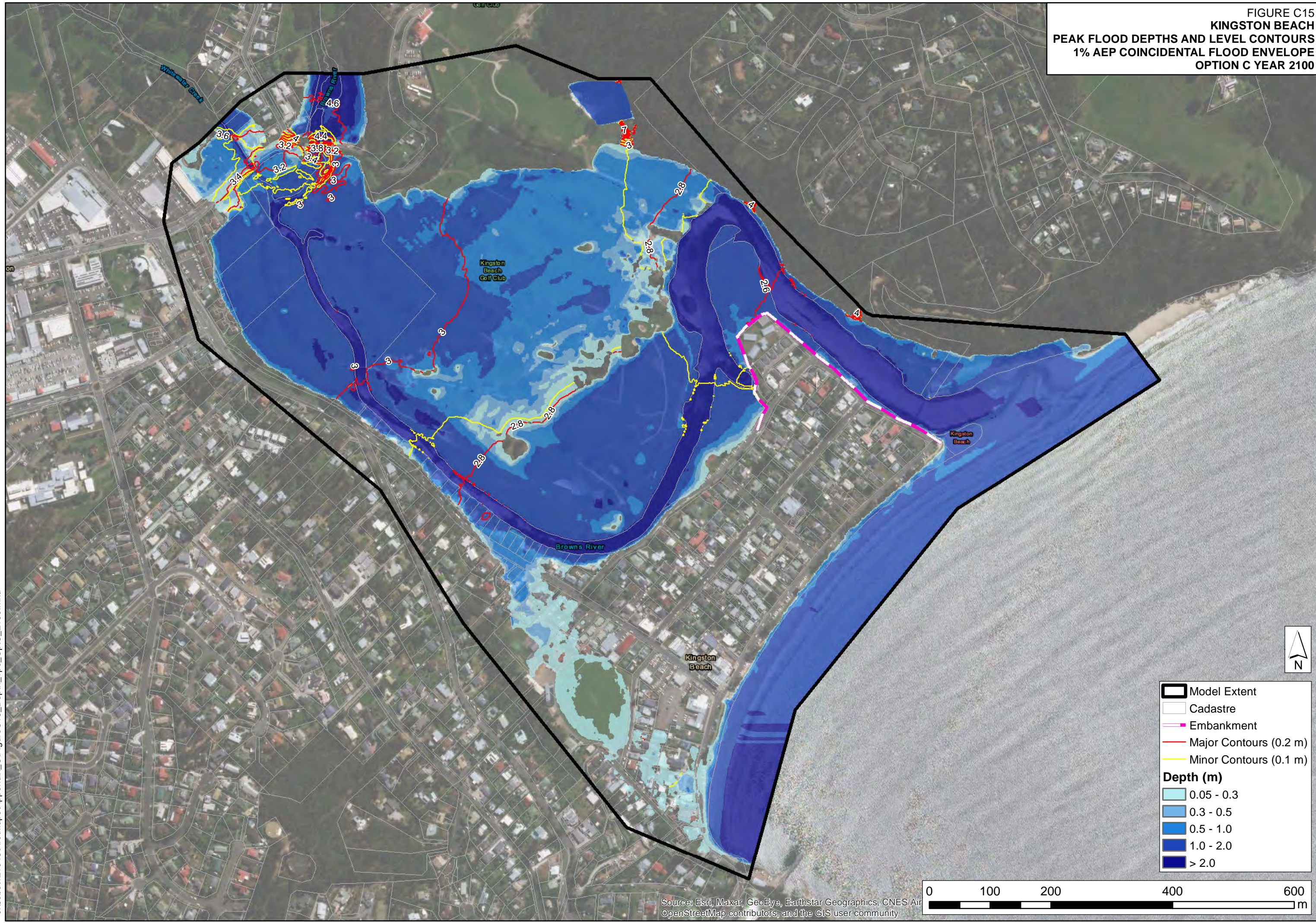
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



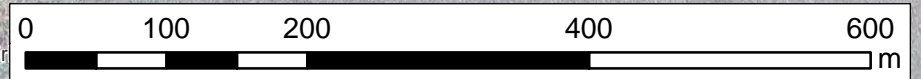
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC14_Depth_1pc_OptC_2050.mxd

FIGURE C15
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION C YEAR 2100



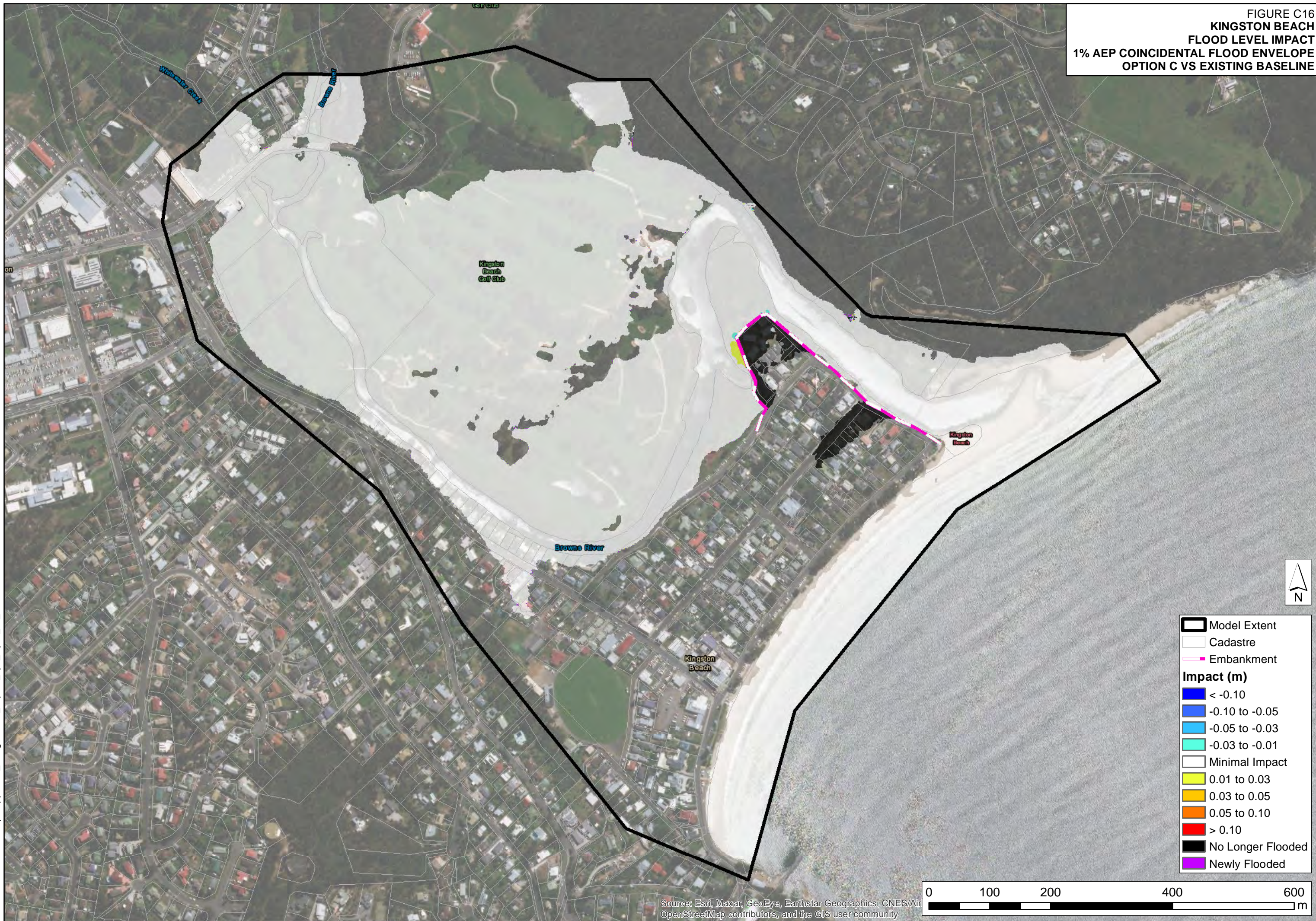
	Model Extent
	Cadastrate
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC15_Depth_1pc_OptC_2100.mxd

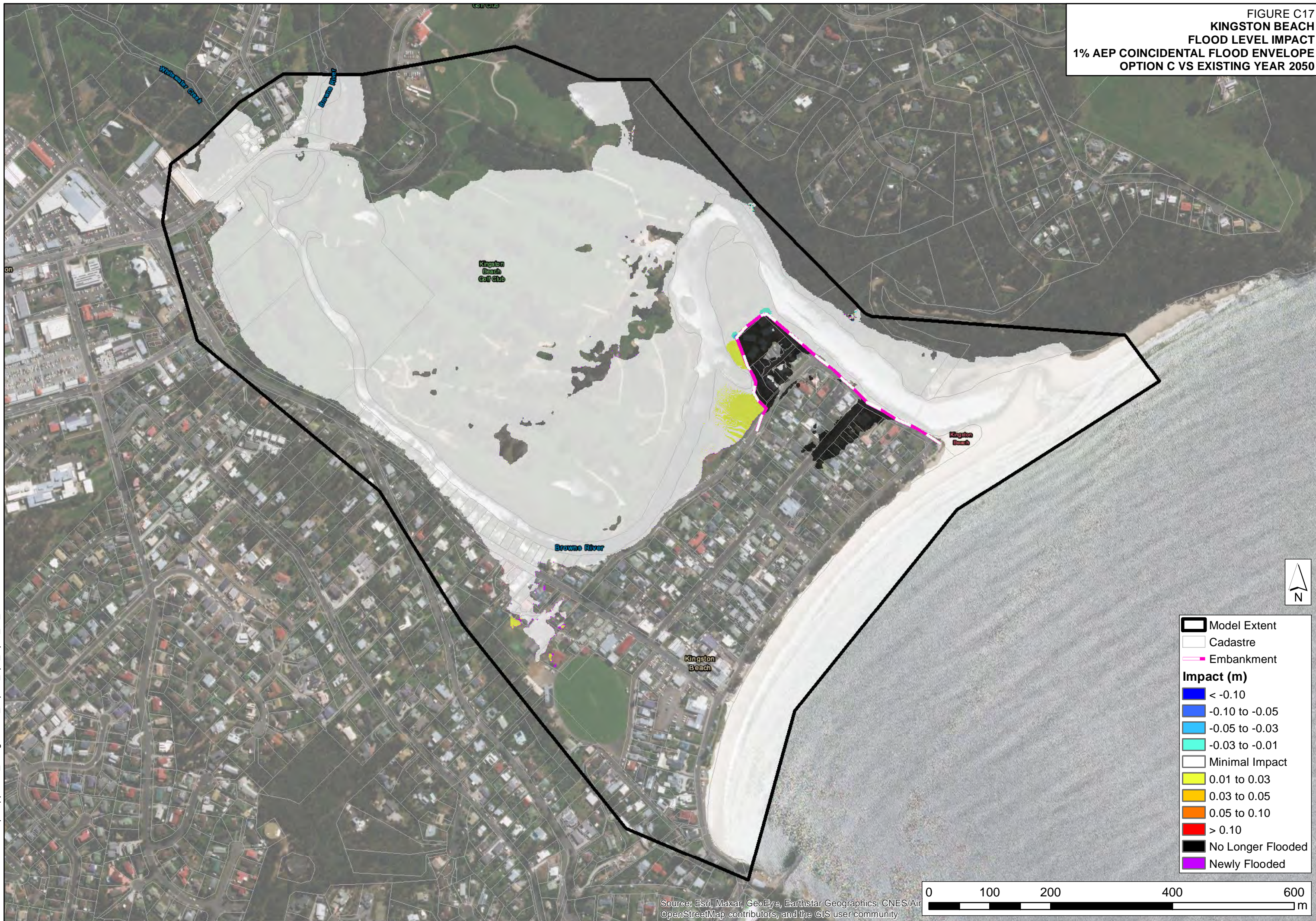
FIGURE C16
**KINGSTON BEACH
 FLOOD LEVEL IMPACT
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION C VS EXISTING BASELINE**



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC16_Impact_1pc_OptC_vs_Baseline.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

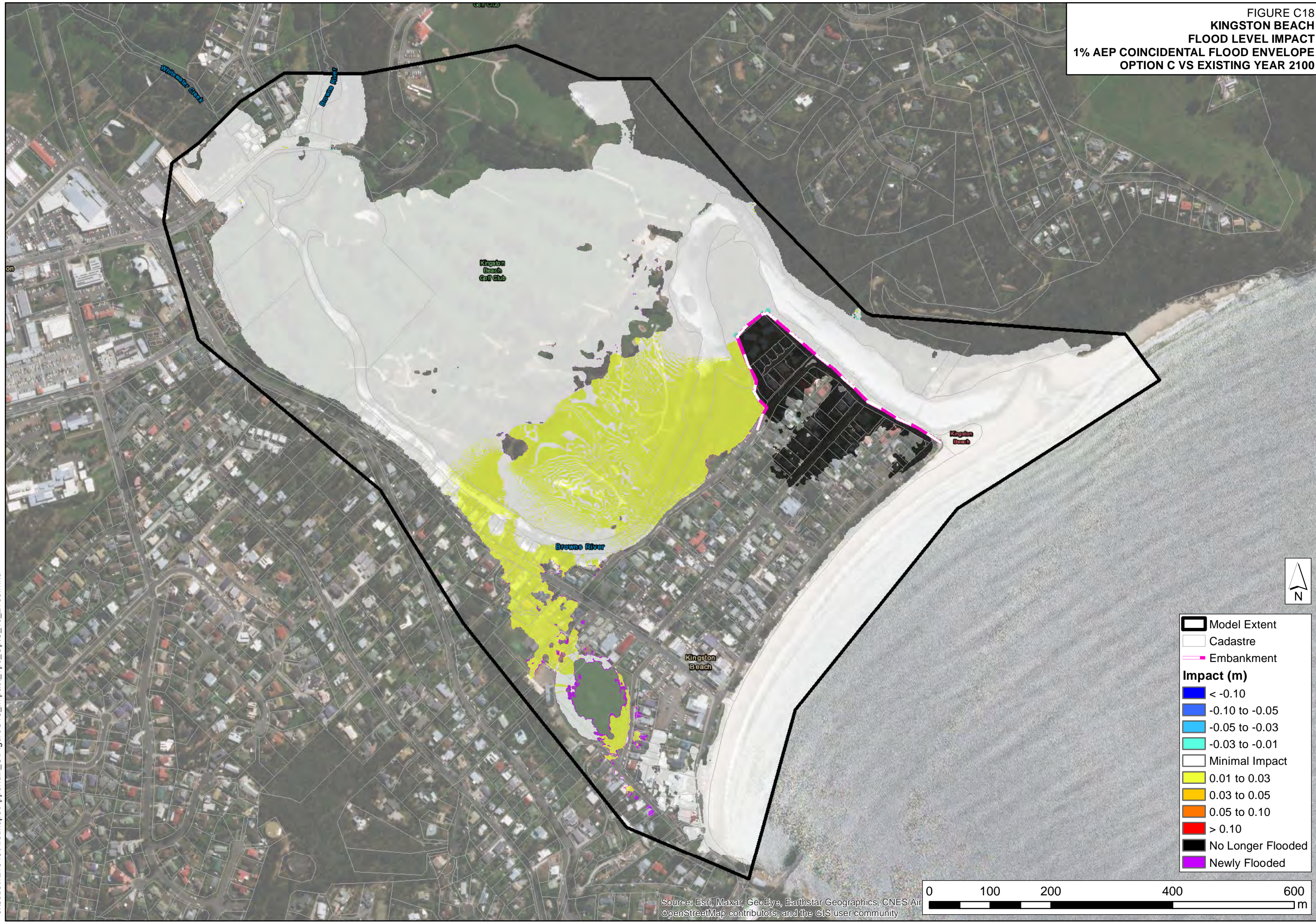
FIGURE C17
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION C VS EXISTING YEAR 2050



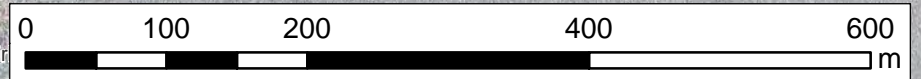
J:\Jobs\121043\ArcMaps\Appendix_C\FigureC17_Impact_1pc_OptC_vs_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C18
**KINGSTON BEACH
 FLOOD LEVEL IMPACT
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION C VS EXISTING YEAR 2100**



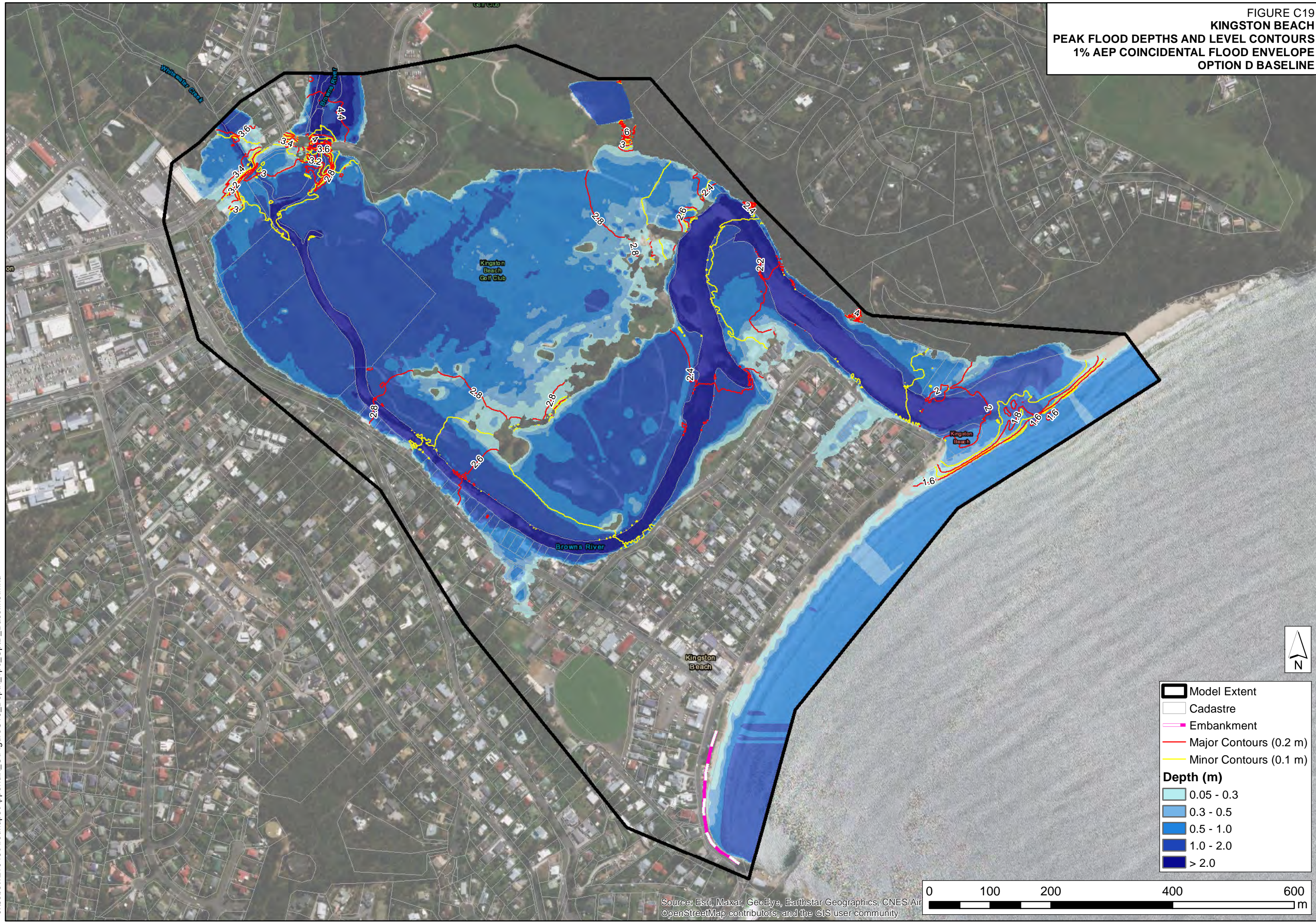
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC18_Impact_1pc_OptC_vs_2100.mxd

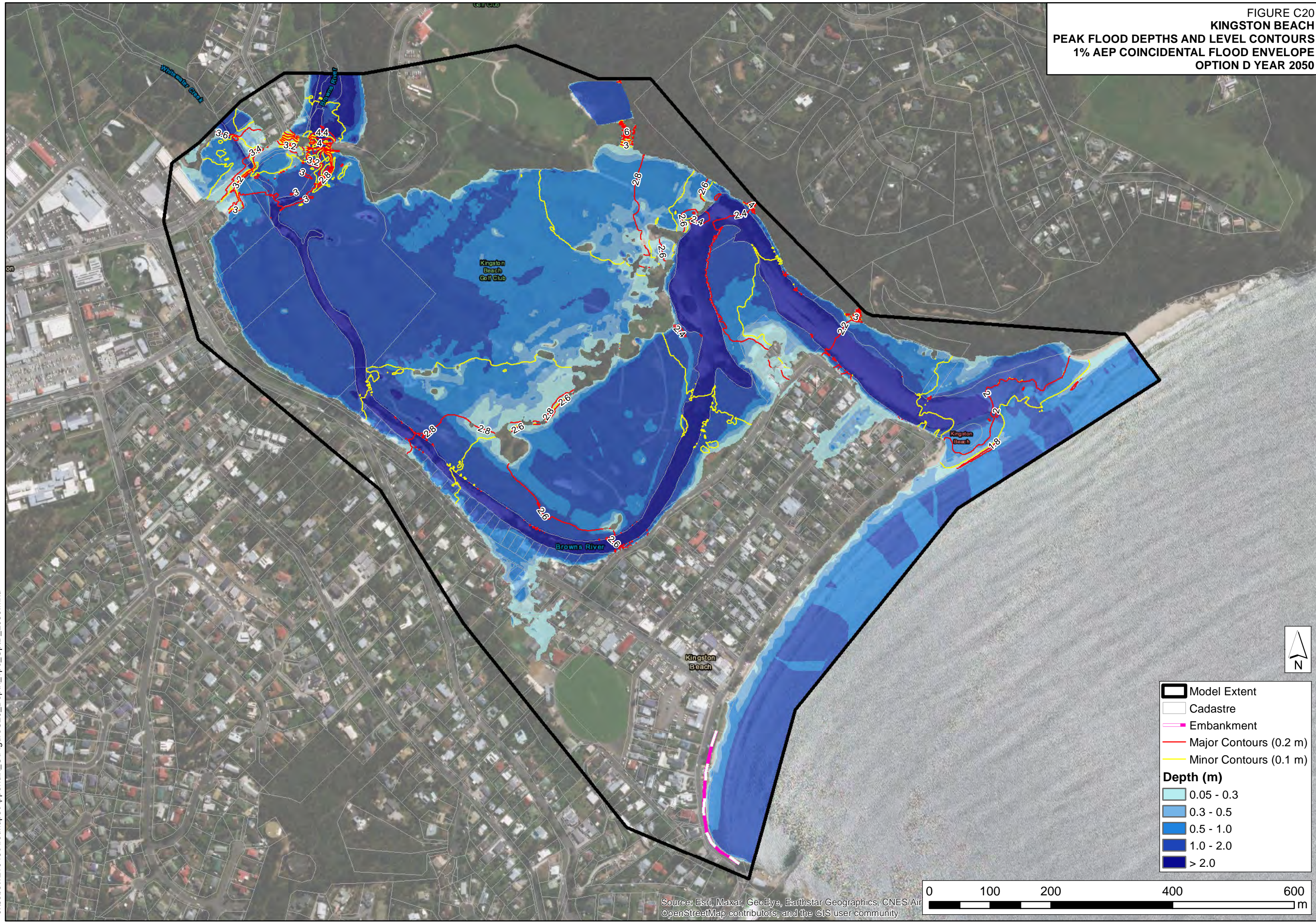
FIGURE C19
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION D BASELINE



J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC19_Depth_1pc_OptD_Baseline.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

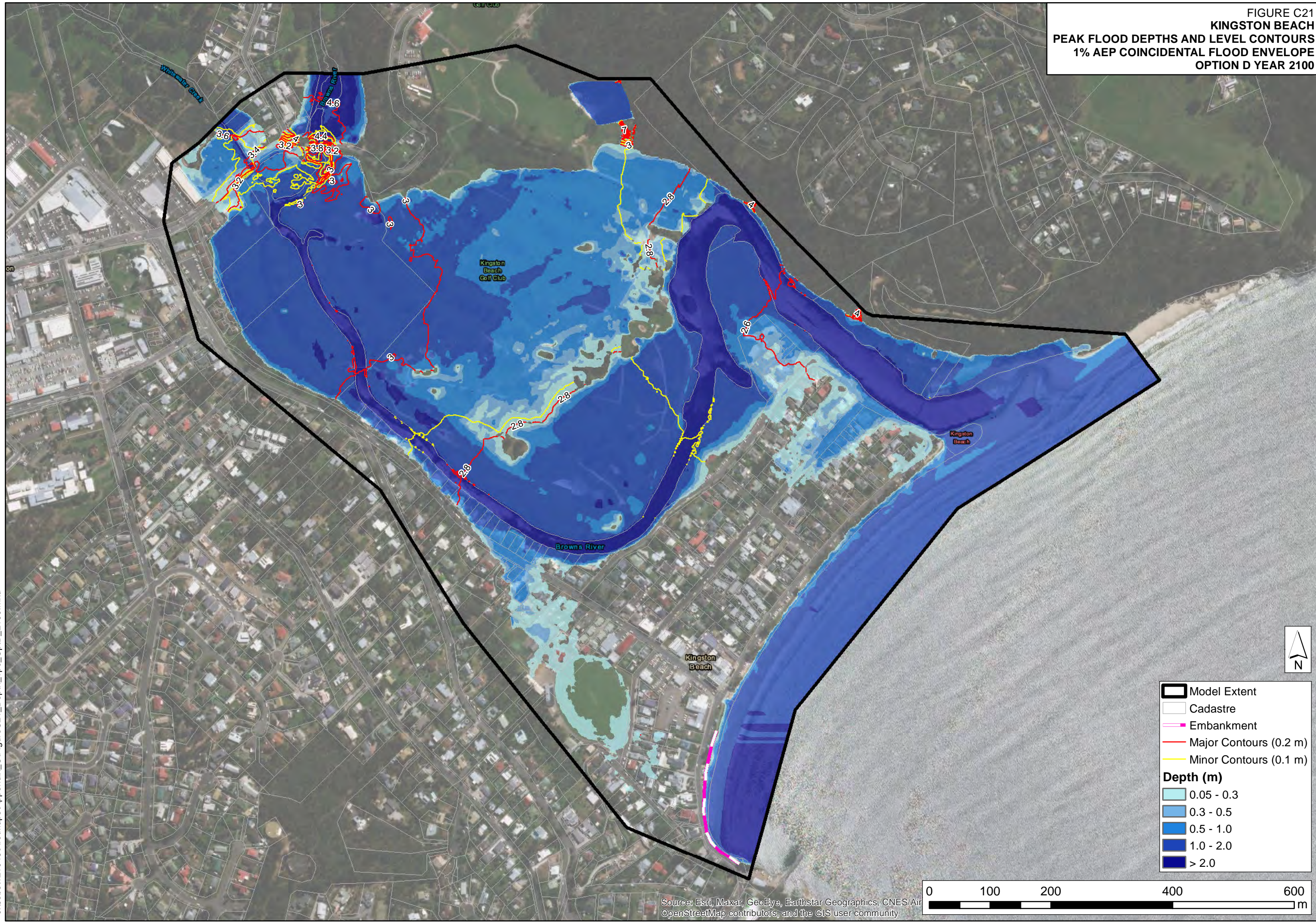
FIGURE C20
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION D YEAR 2050



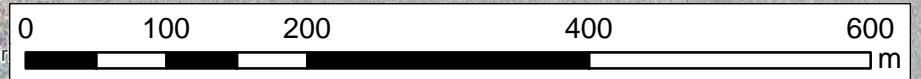
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC20_Depth_1pc_OptD_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C21
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION D YEAR 2100



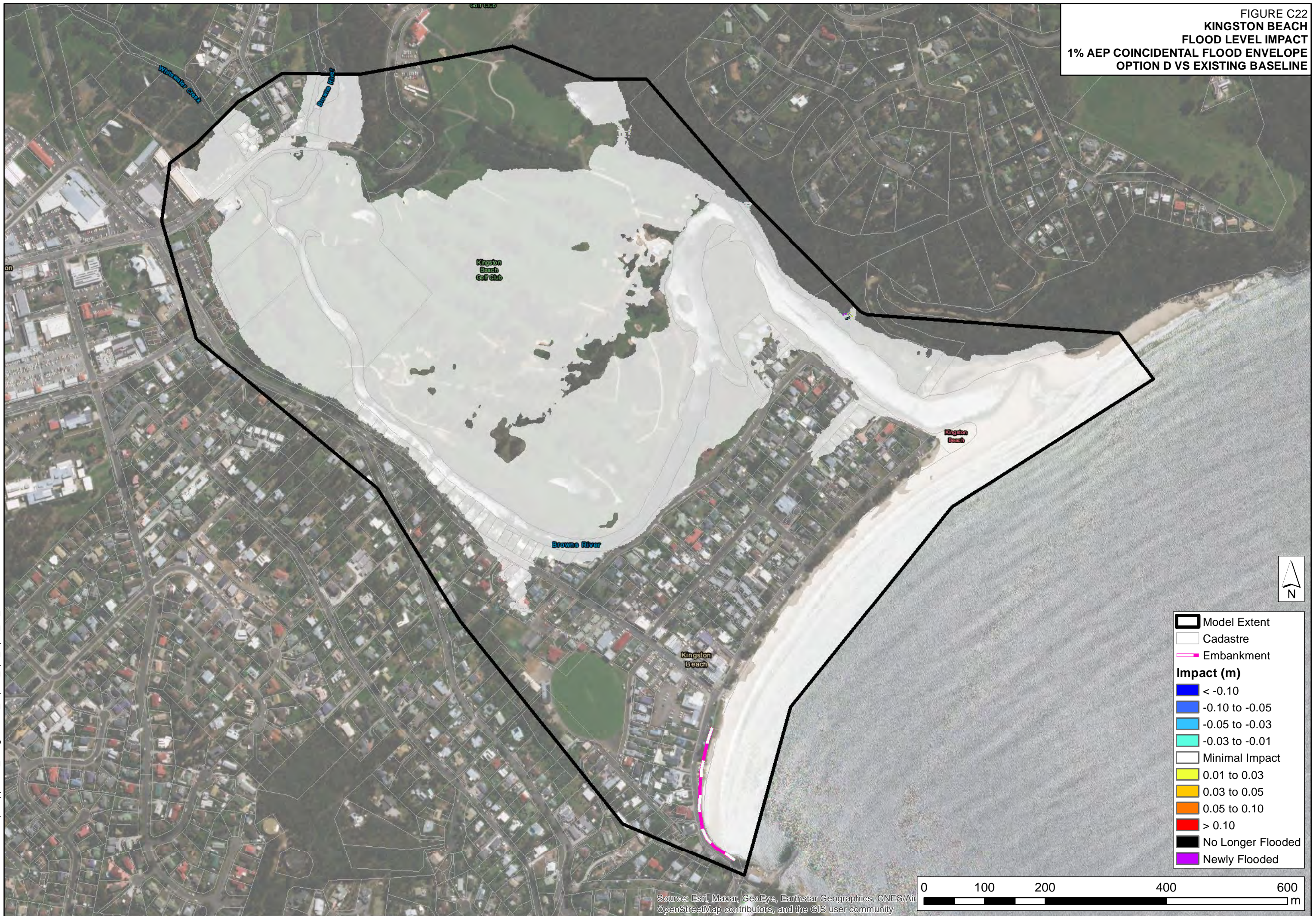
	Model Extent
	Cadastrate
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



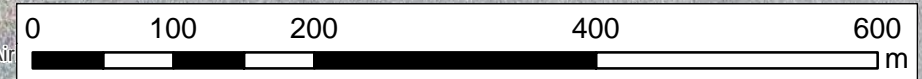
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC21_Depth_1pc_OptD_2100.mxd

FIGURE C22
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION D VS EXISTING BASELINE



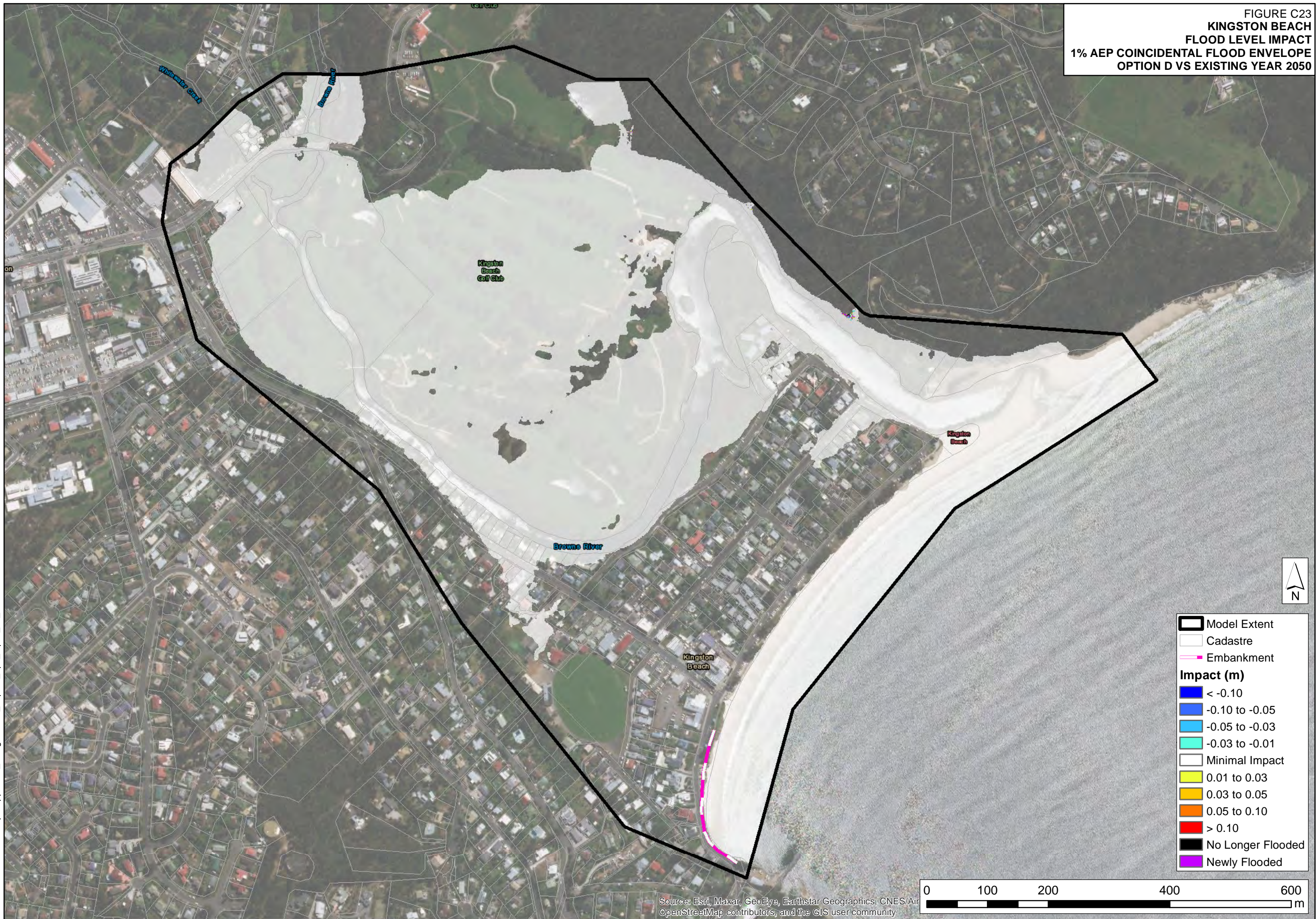
- Model Extent
- Cadastre
- Embankment
- Impact (m)**
- < -0.10
- 0.10 to -0.05
- 0.05 to -0.03
- 0.03 to -0.01
- Minimal Impact
- 0.01 to 0.03
- 0.03 to 0.05
- 0.05 to 0.10
- > 0.10
- No Longer Flooded
- Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC22_Impact_1pc_OptD_vs_Baseline.mxd

FIGURE C23
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION D VS EXISTING YEAR 2050



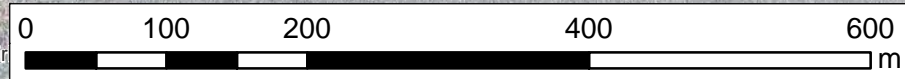
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC23_Impact_1pc_OptD_vs_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C24
**KINGSTON BEACH
 FLOOD LEVEL IMPACT
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION D VS EXISTING YEAR 2100**



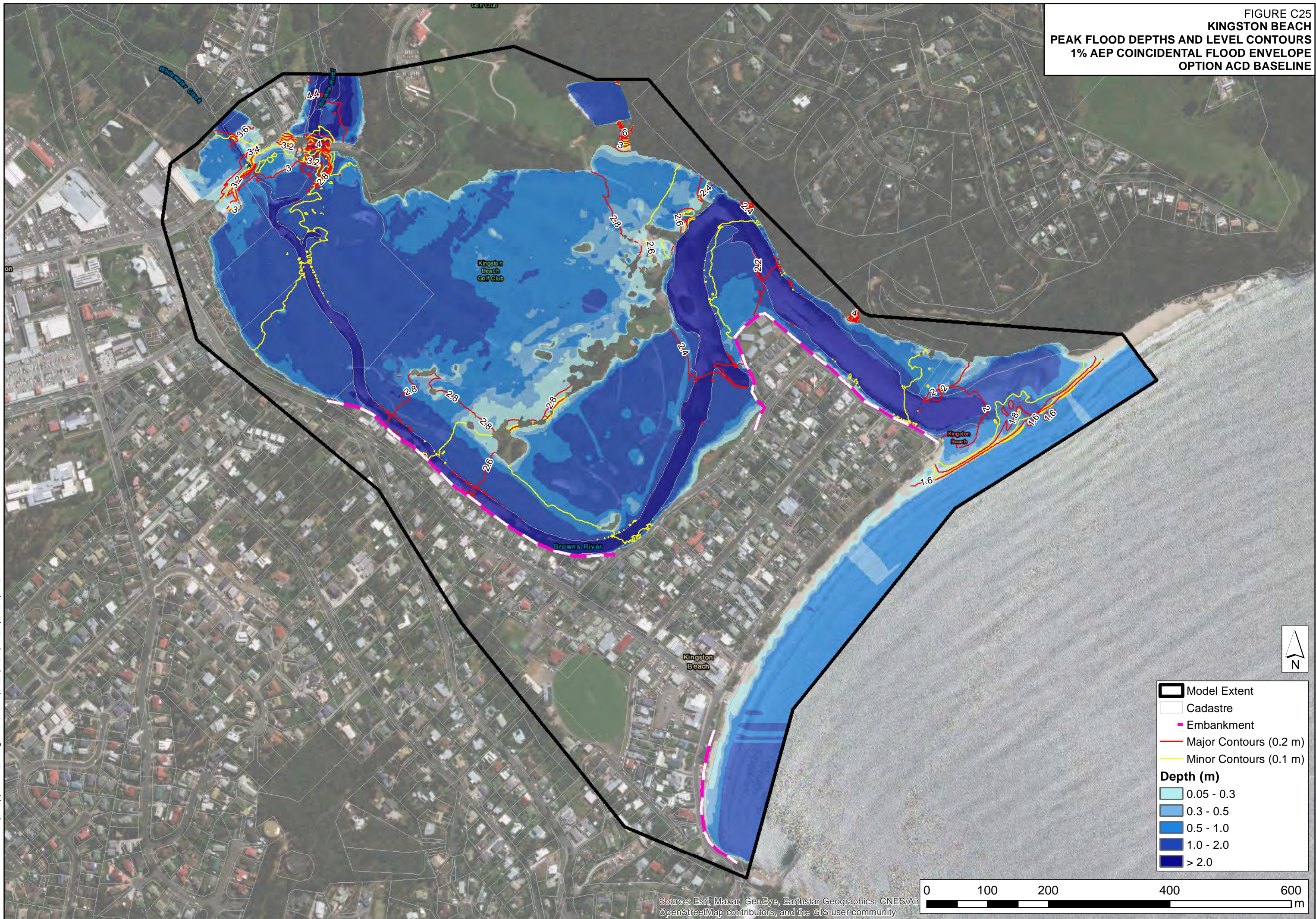
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC24_Impact_1pc_OptD_vs_2100.mxd

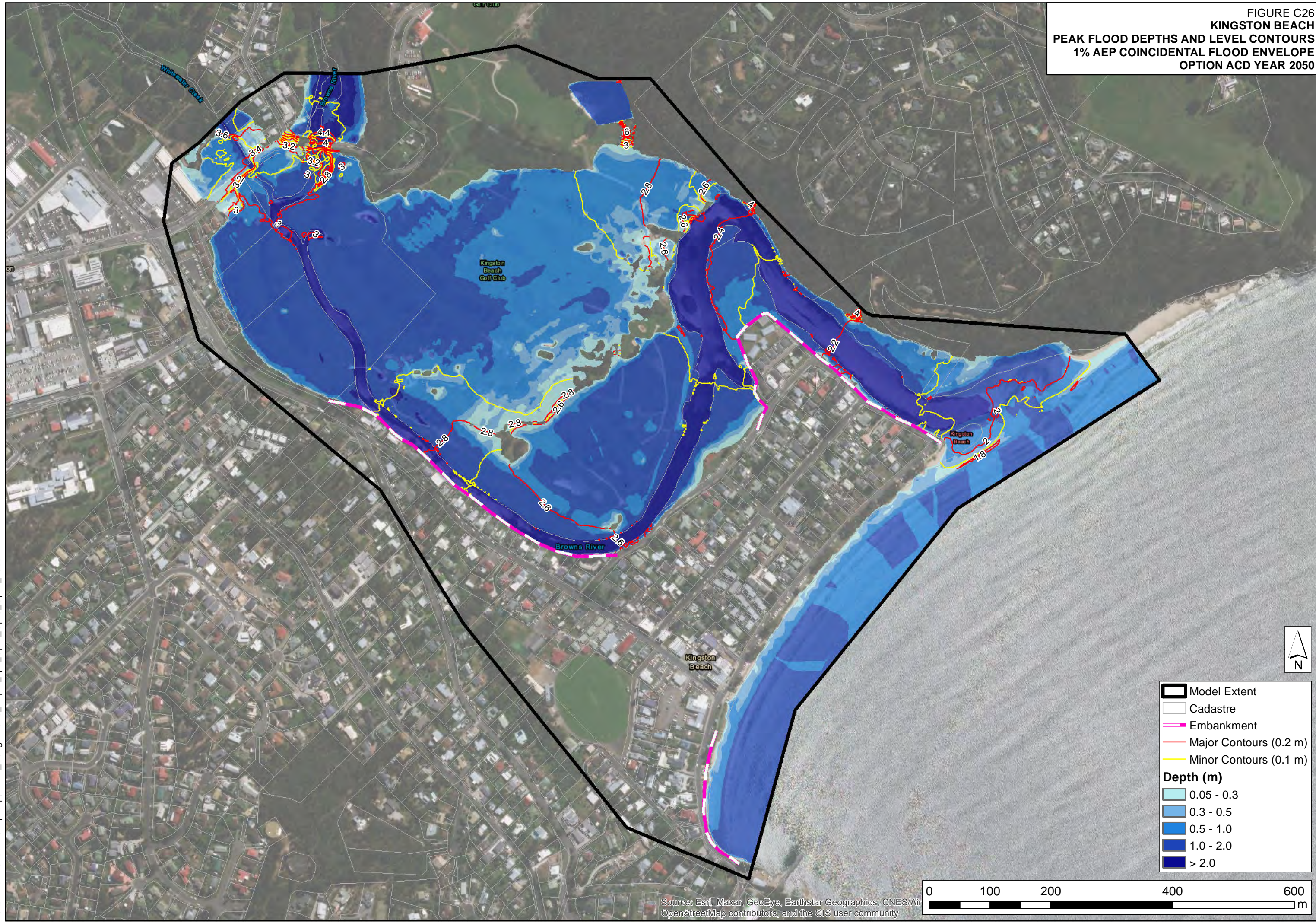
FIGURE C25
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION ACD BASELINE



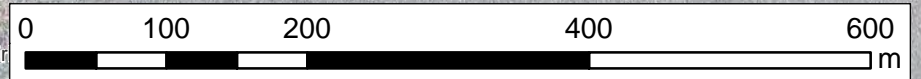
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC25_Depth_1pc_OptA_OptC_BaseLine.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

FIGURE C26
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION ACD YEAR 2050



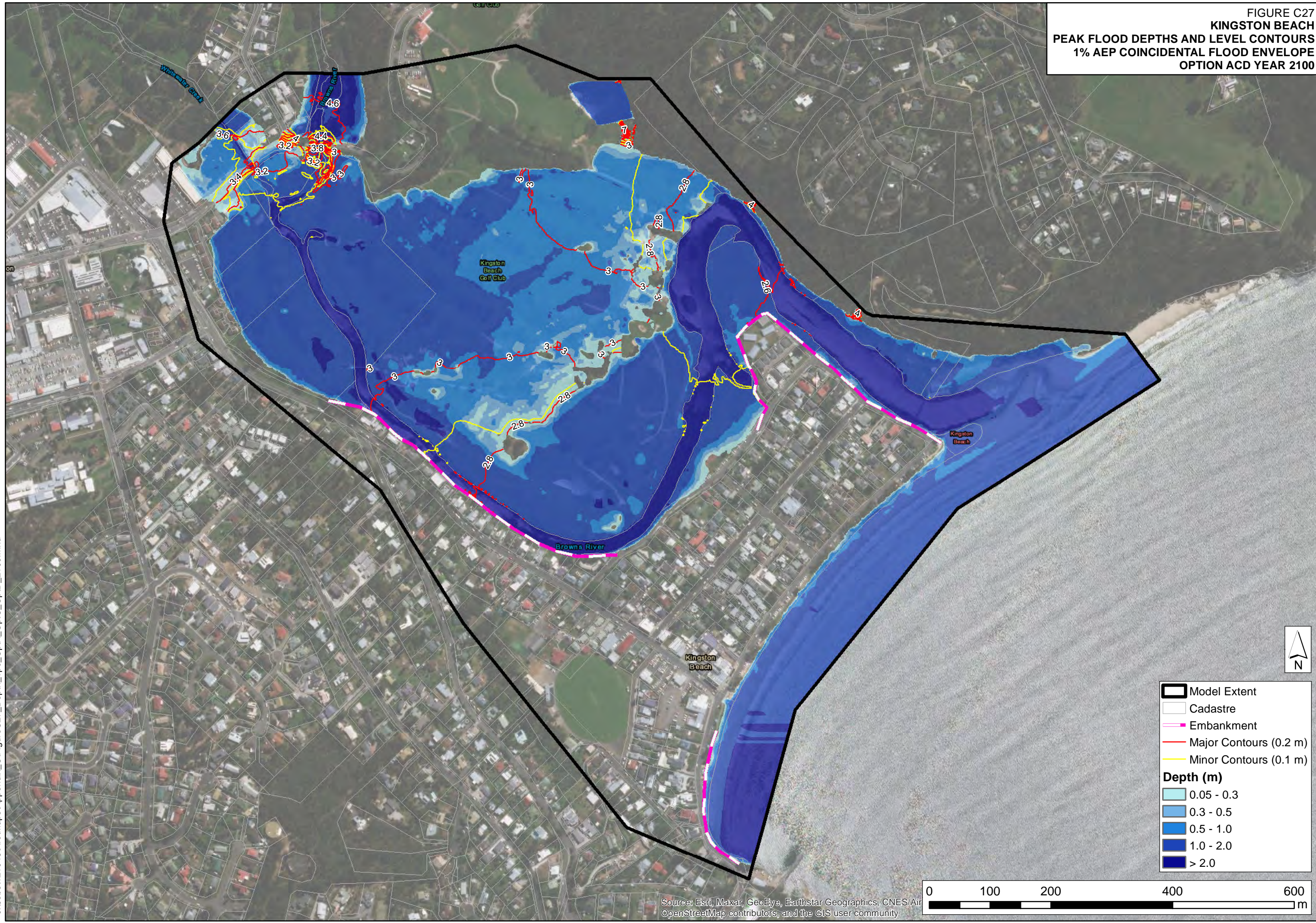
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



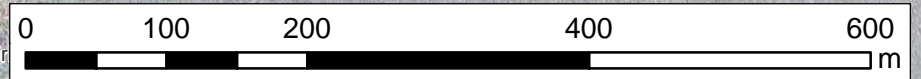
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC26_Depth_1pc_OptA_OptC_2050.mxd

FIGURE C27
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION ACD YEAR 2100



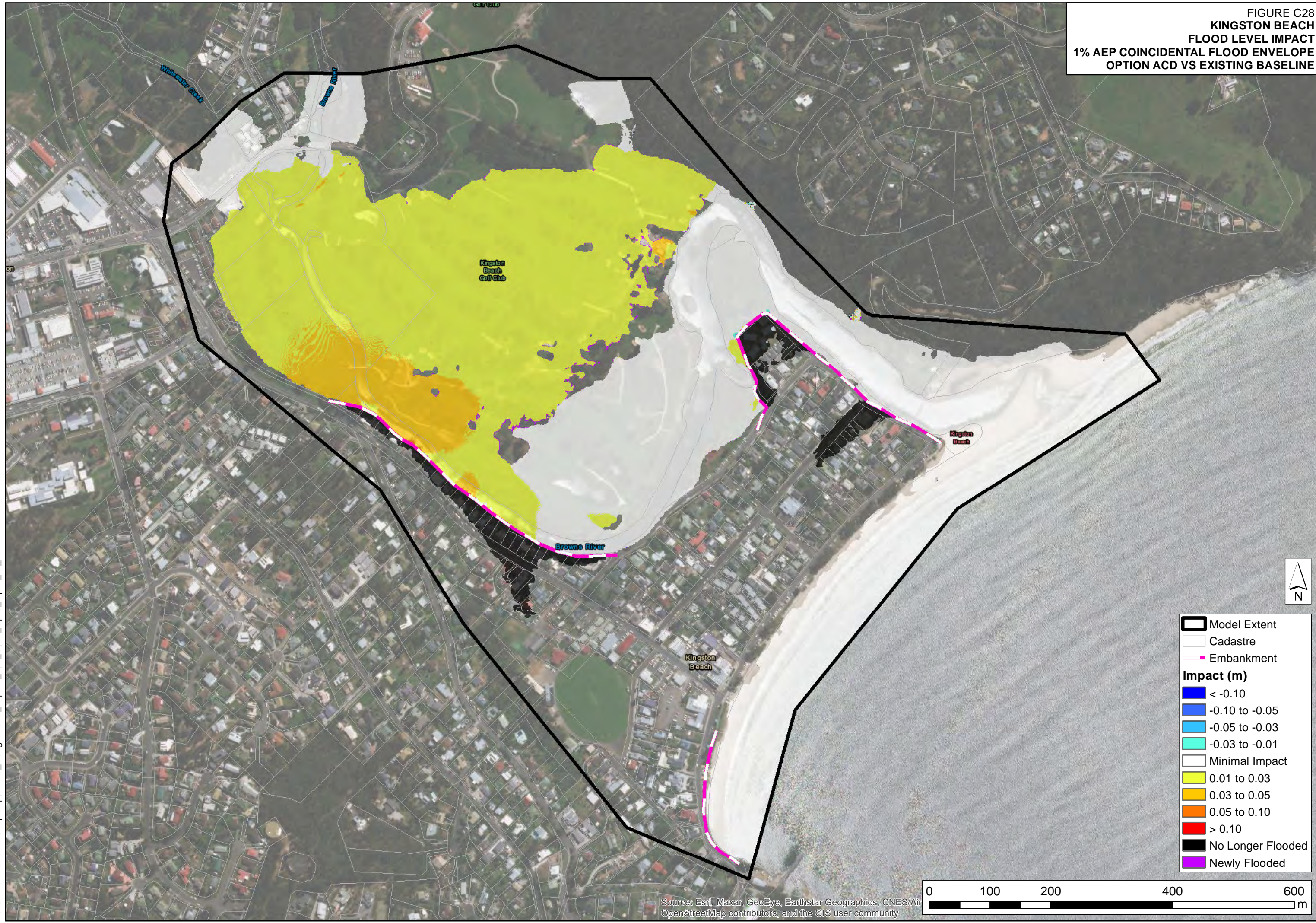
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



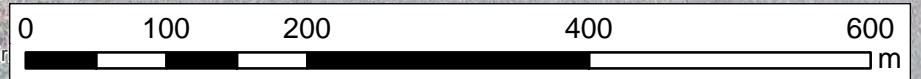
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\ArcMaps\Appendix_C\FigureC27_Depth_1pc_OptA_OptC_2100.mxd

FIGURE C28
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION ACD VS EXISTING BASELINE



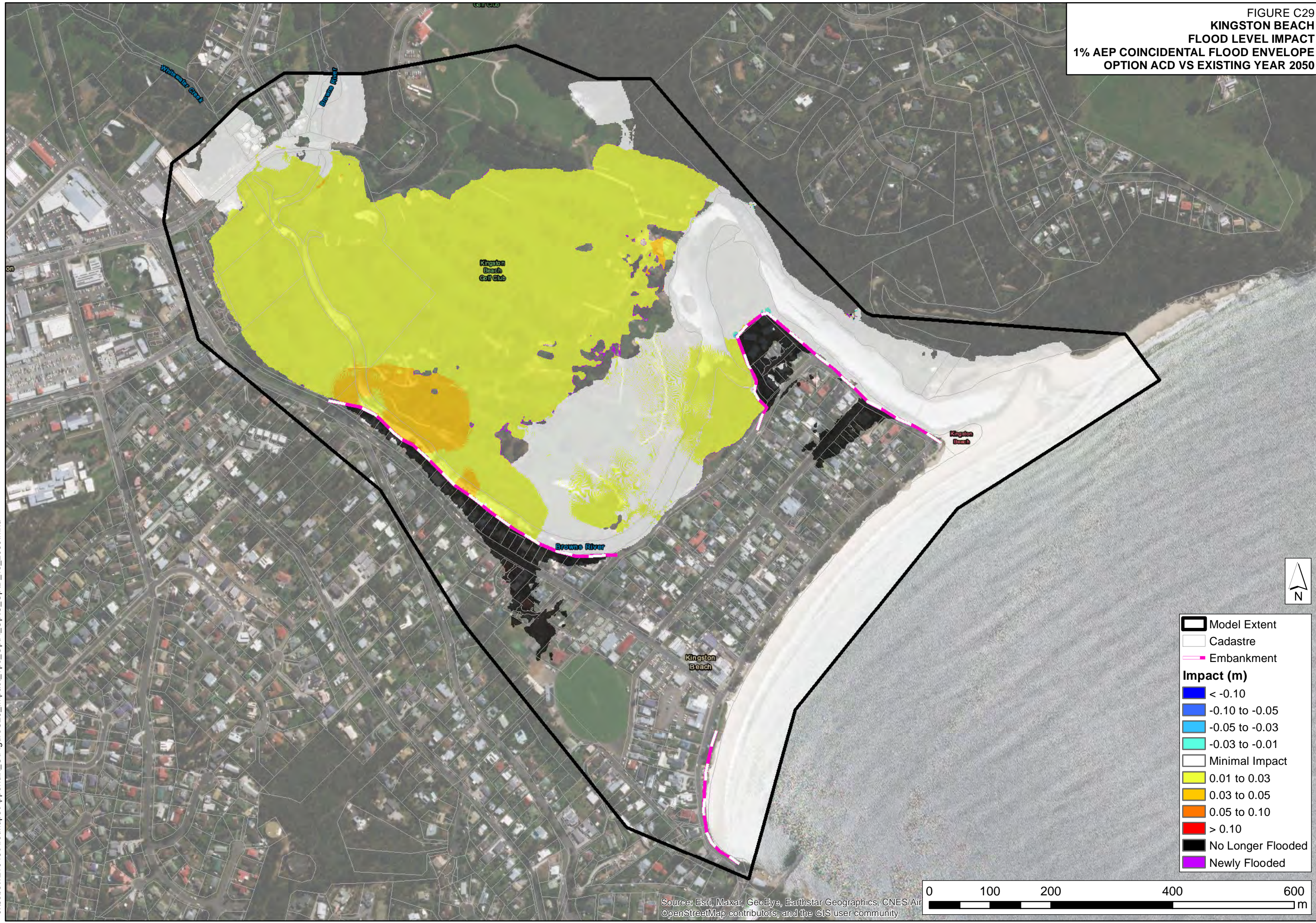
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



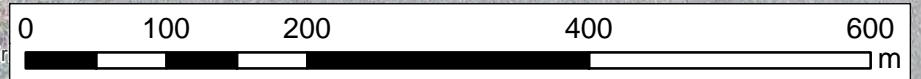
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC28_Impact_1pc_OptA_OptC_OptD_vs_Baseline.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

FIGURE C29
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION ACD VS EXISTING YEAR 2050



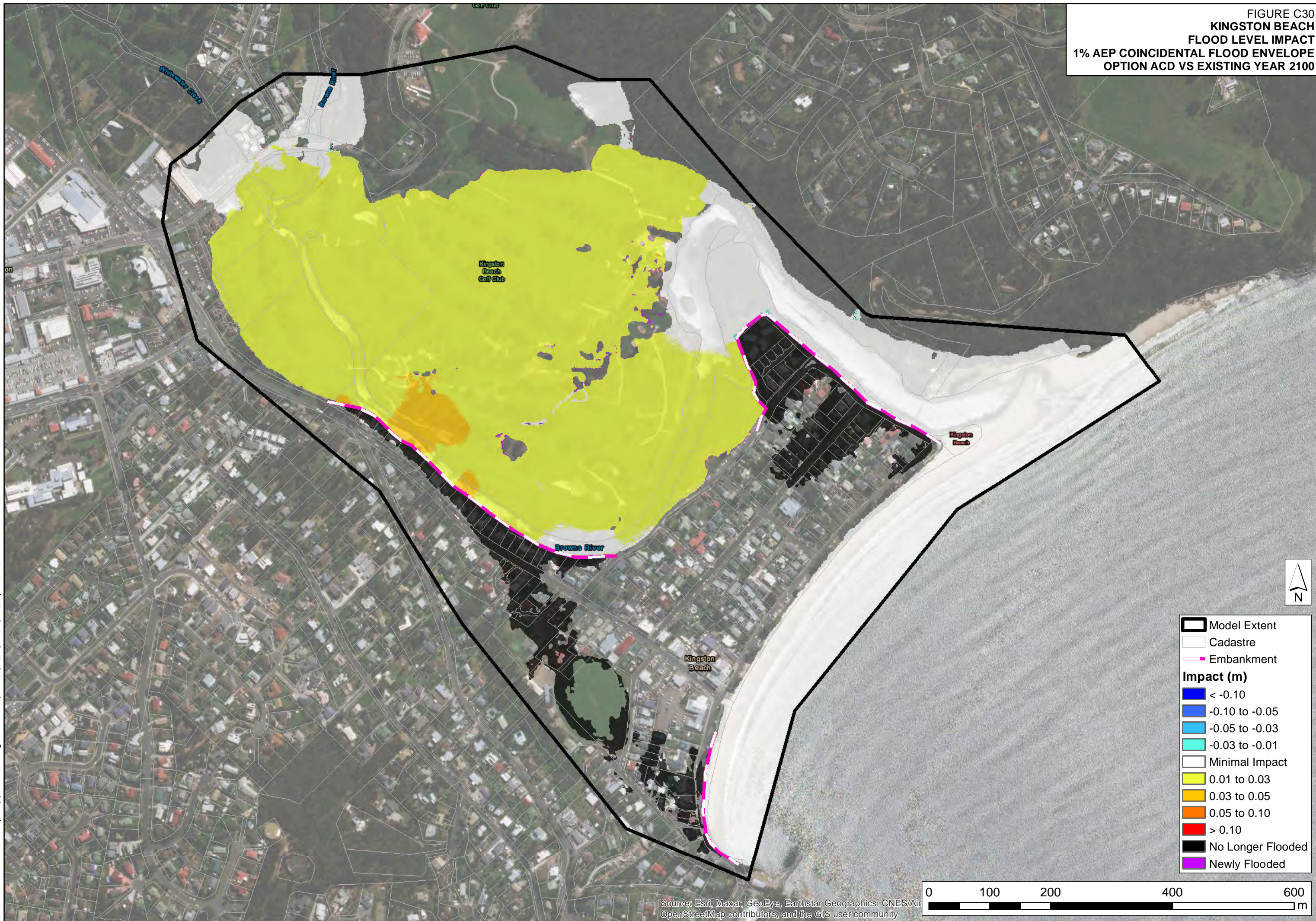
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



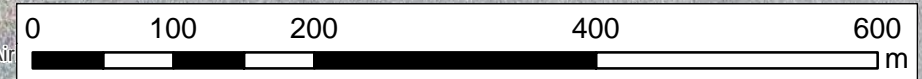
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC29_Impact_1pc_OptA_OptC_OptD_vs_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C30
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION ACD VS EXISTING YEAR 2100



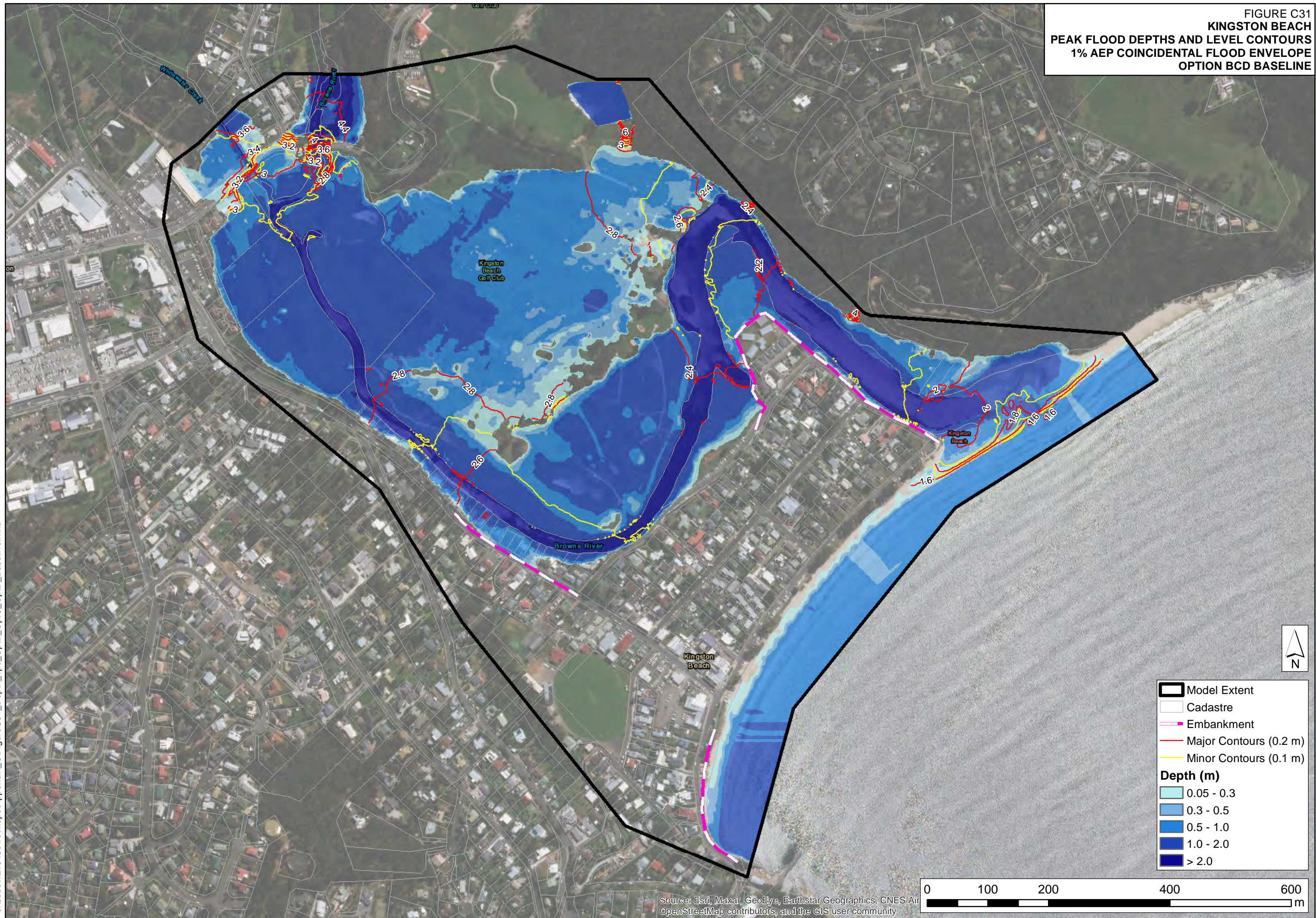
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC30_Impact_1pc_OptA_OptC_OptD_vs_2100.mxd

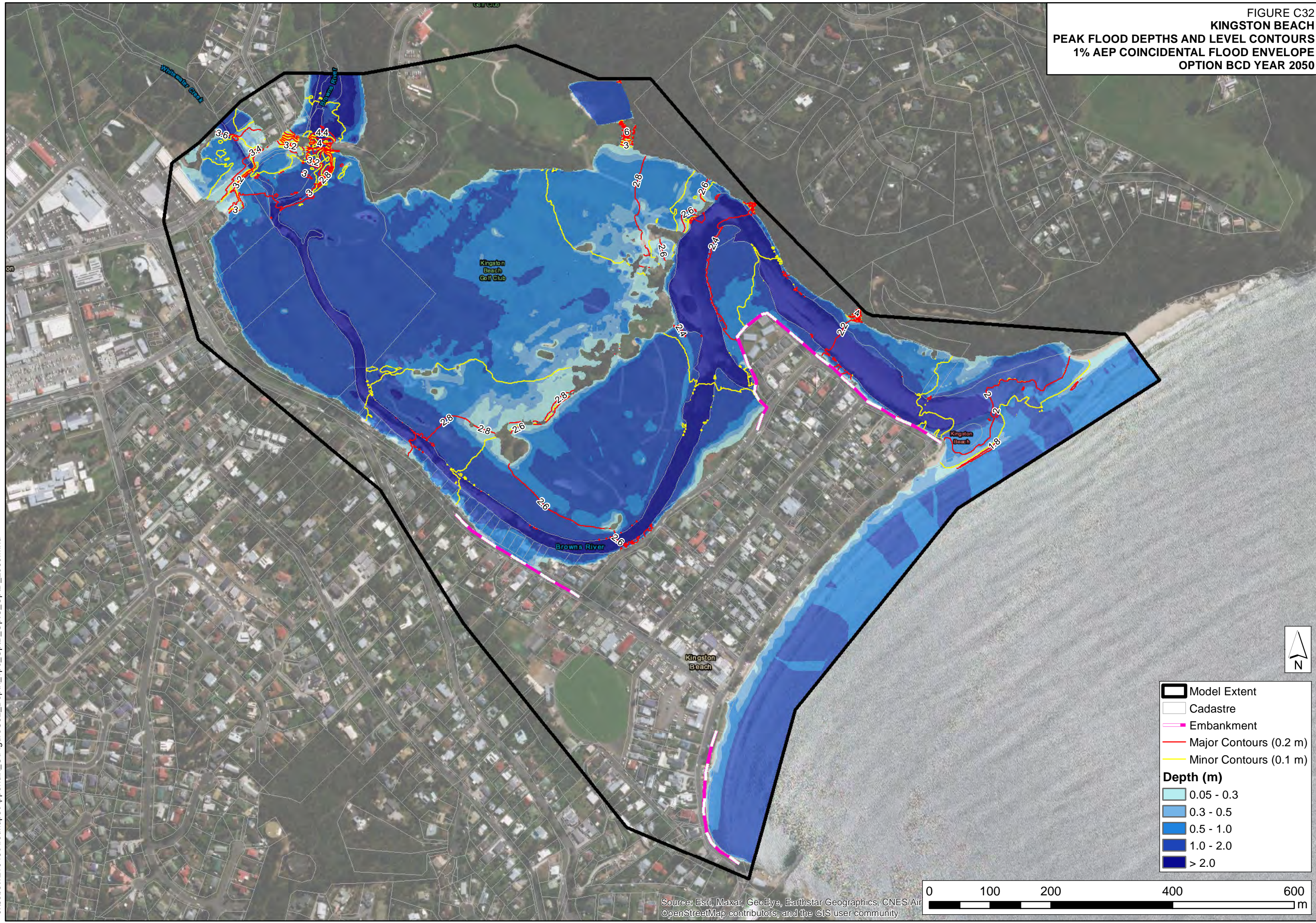
FIGURE C31
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION BCD BASELINE



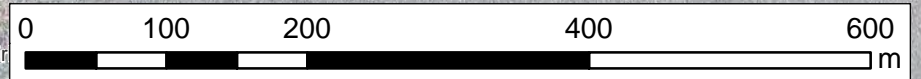
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC31_Depth_1pc_OptB_OptC_BaseLine.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

FIGURE C32
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION BCD YEAR 2050



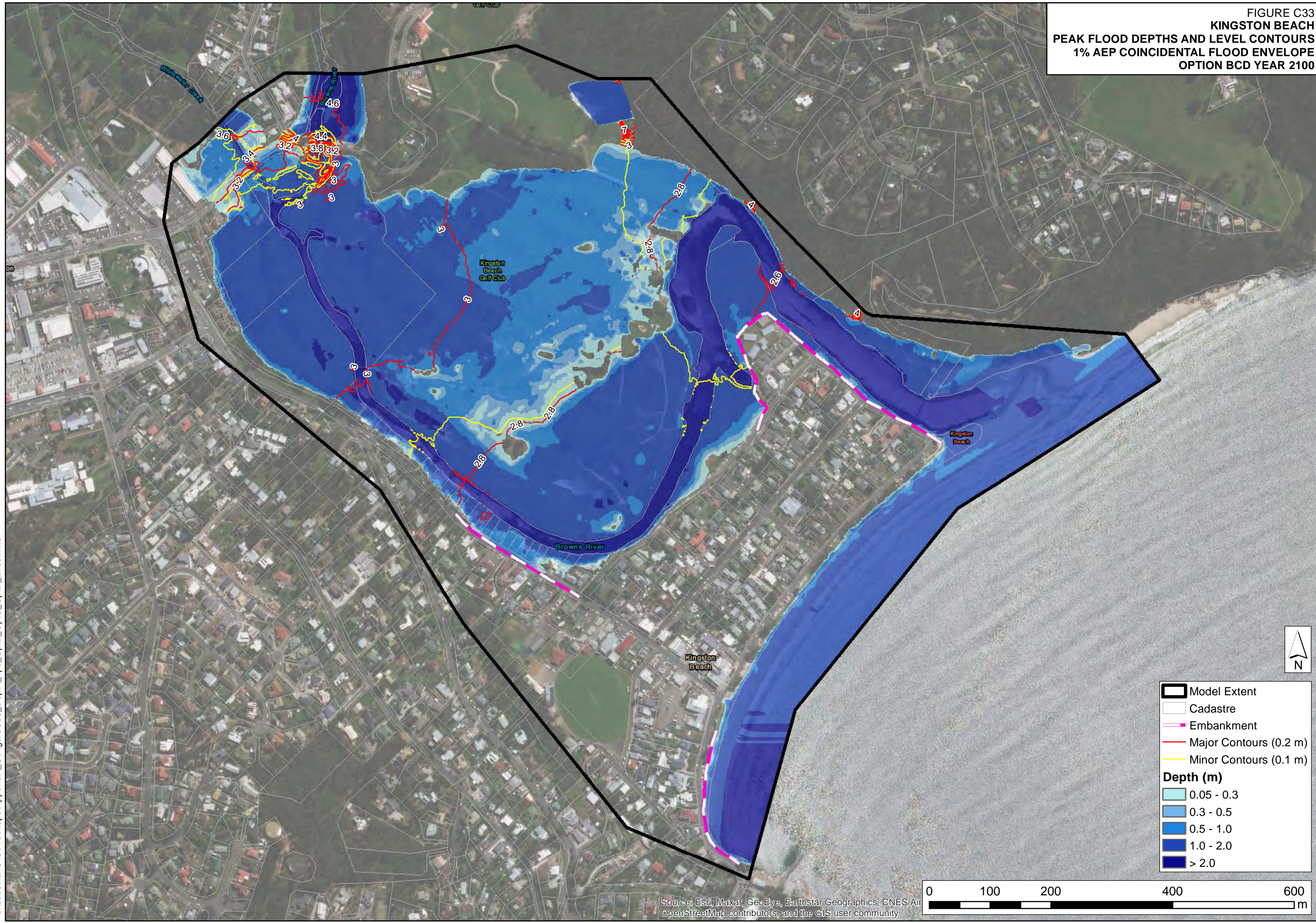
	Model Extent
	Cadastre
	Embankment
	Major Contours (0.2 m)
	Minor Contours (0.1 m)
Depth (m)	
	0.05 - 0.3
	0.3 - 0.5
	0.5 - 1.0
	1.0 - 2.0
	> 2.0



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC32_Depth_1pc_OptB_OptC_2050.mxd

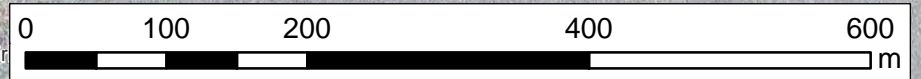
FIGURE C33
KINGSTON BEACH
PEAK FLOOD DEPTHS AND LEVEL CONTOURS
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION BCD YEAR 2100



- Model Extent
- Cadastre
- Embankment
- Major Contours (0.2 m)
- Minor Contours (0.1 m)

Depth (m)

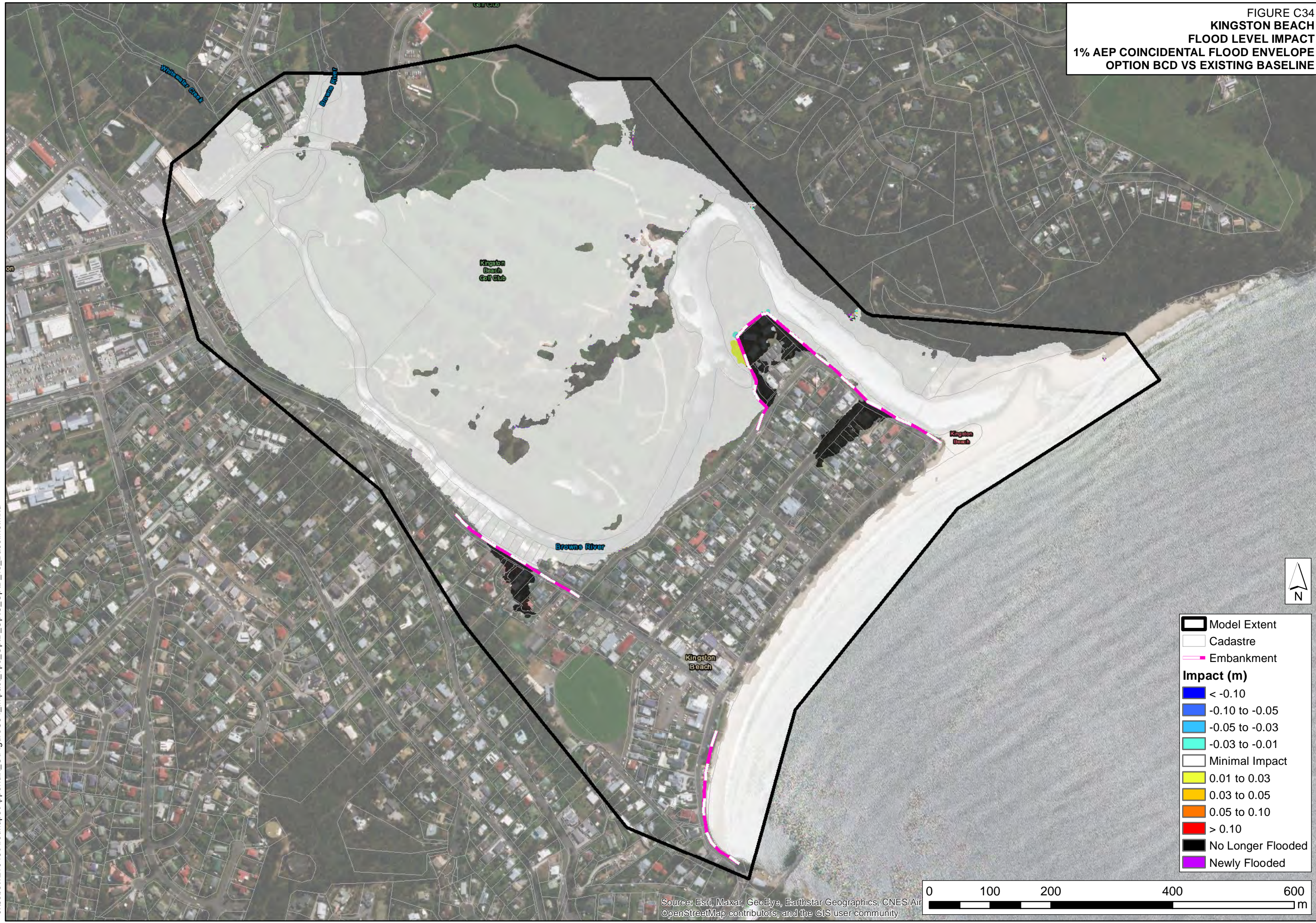
- 0.05 - 0.3
- 0.3 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0



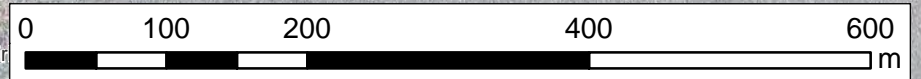
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC33_Depth_1pc_OptB_OptC_2100.mxd

FIGURE C34
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION BCD VS EXISTING BASELINE



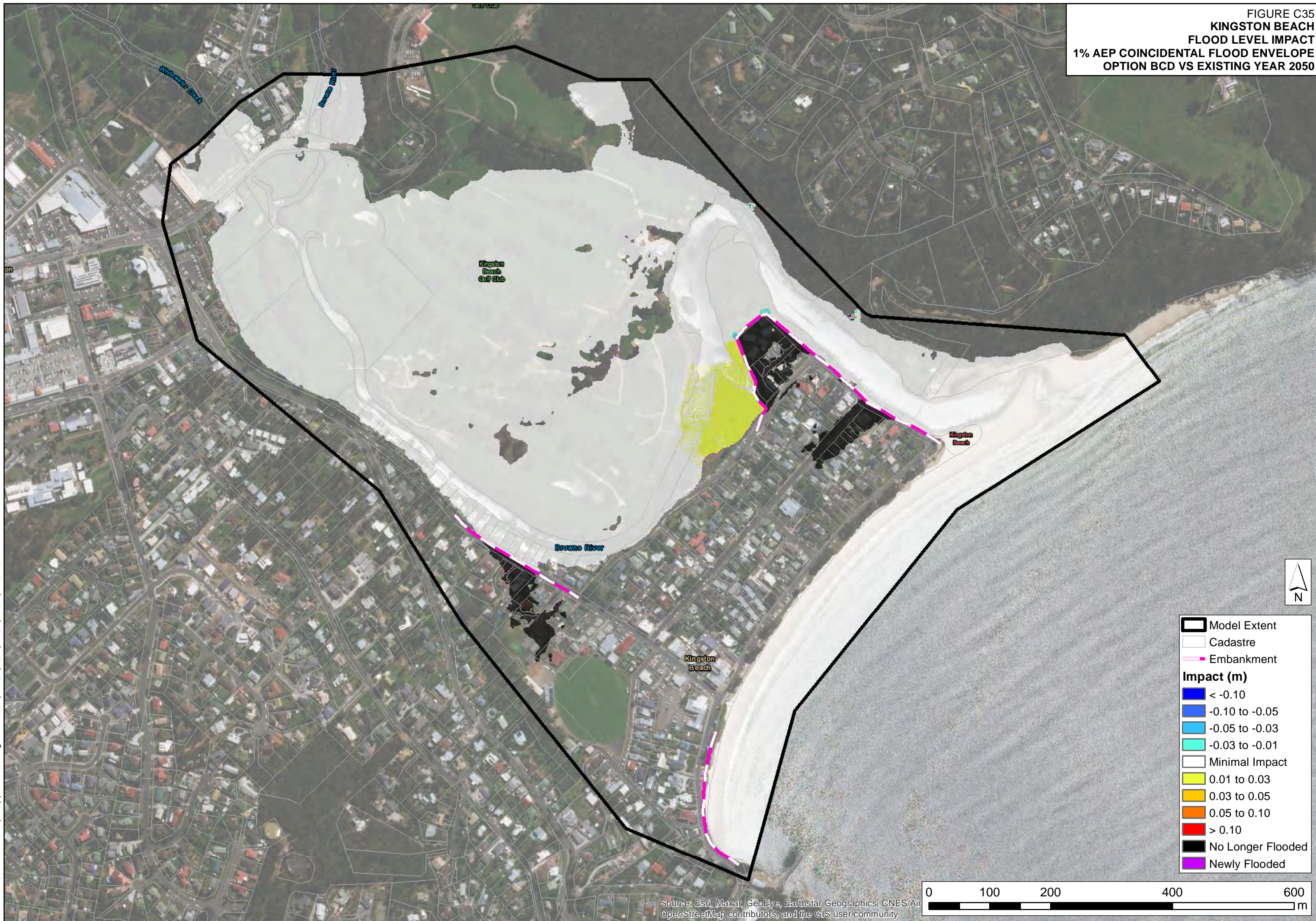
	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC34_Impact_1pc_OptB_OptC_OptD_vs_Baseline.mxd

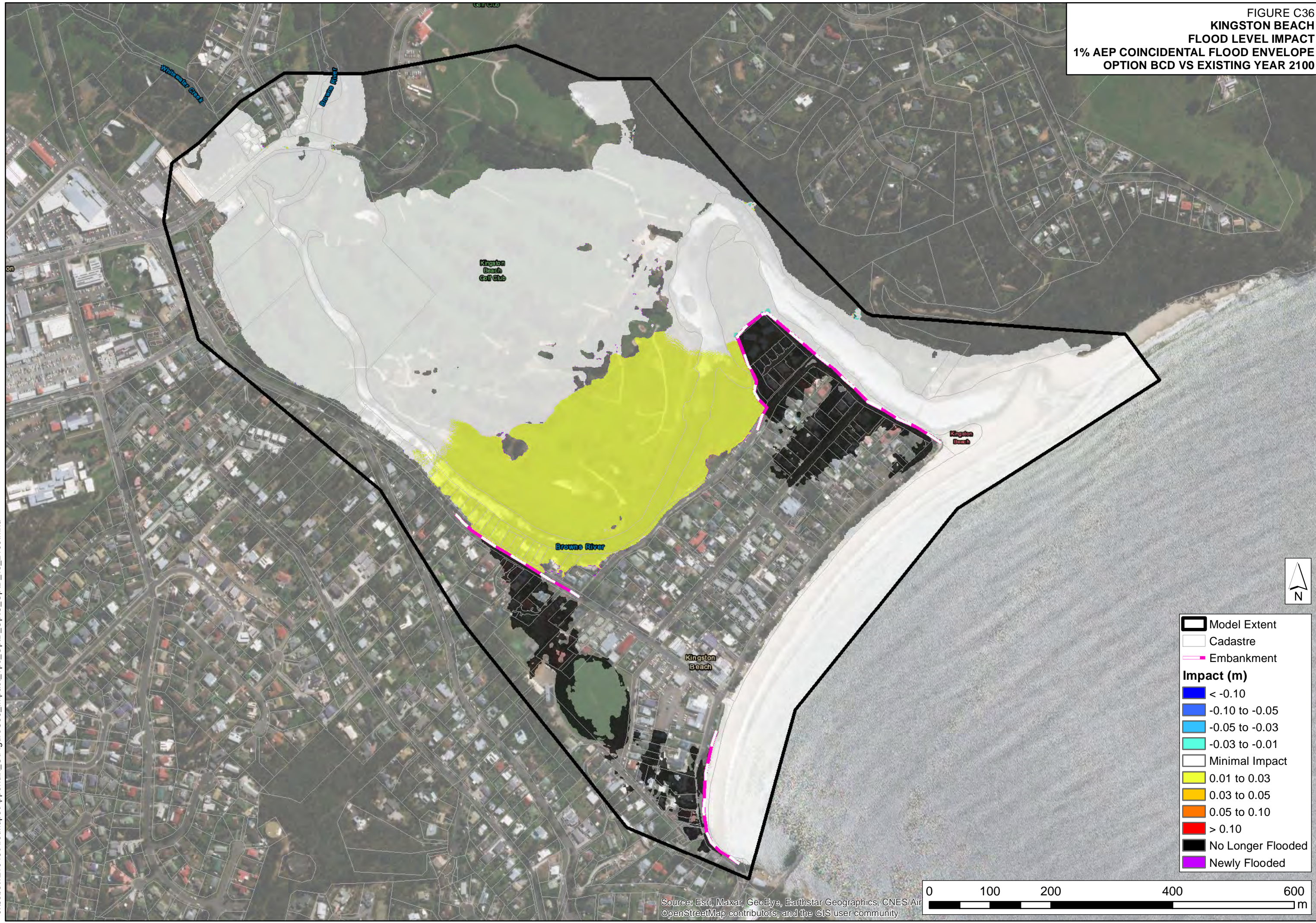
FIGURE C35
KINGSTON BEACH
FLOOD LEVEL IMPACT
1% AEP COINCIDENTAL FLOOD ENVELOPE
OPTION BCD VS EXISTING YEAR 2050



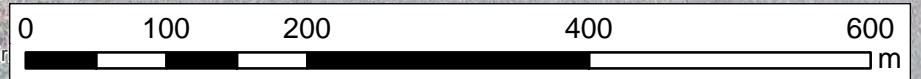
J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC35_Impact_1pc_OptB_OptC_OptD_vs_2050.mxd

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air OpenStreetMap contributors, and the GIS user community

FIGURE C36
**KINGSTON BEACH
 FLOOD LEVEL IMPACT**
 1% AEP COINCIDENTAL FLOOD ENVELOPE
 OPTION BCD VS EXISTING YEAR 2100



	Model Extent
	Cadastre
	Embankment
Impact (m)	
	< -0.10
	-0.10 to -0.05
	-0.05 to -0.03
	-0.03 to -0.01
	Minimal Impact
	0.01 to 0.03
	0.03 to 0.05
	0.05 to 0.10
	> 0.10
	No Longer Flooded
	Newly Flooded



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Air
 OpenStreetMap contributors, and the GIS user community

J:\Jobs\121043\Arc\Maps\Appendix_C\FigureC36_Impact_1pc_OptB_OptC_OptD_vs_2100.mxd