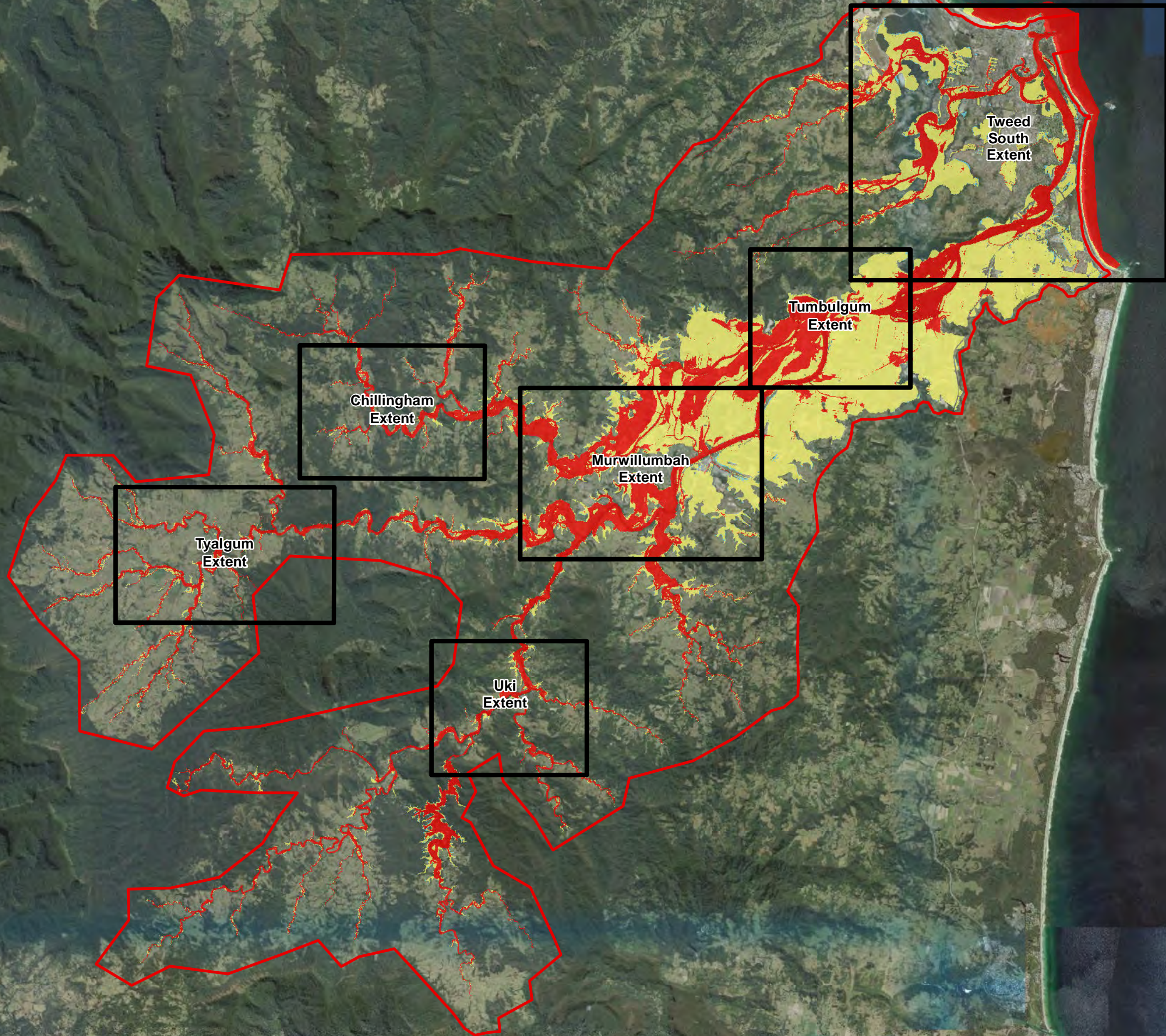




APPENDIX Q. HYDRAULIC AND HAZARD CLASSIFICATION

FIGURE 1
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % FLOOD FUNCTION OVERVIEW



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

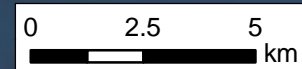


FIGURE 2
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % AEP FLOOD FUNCTION TYALGUM

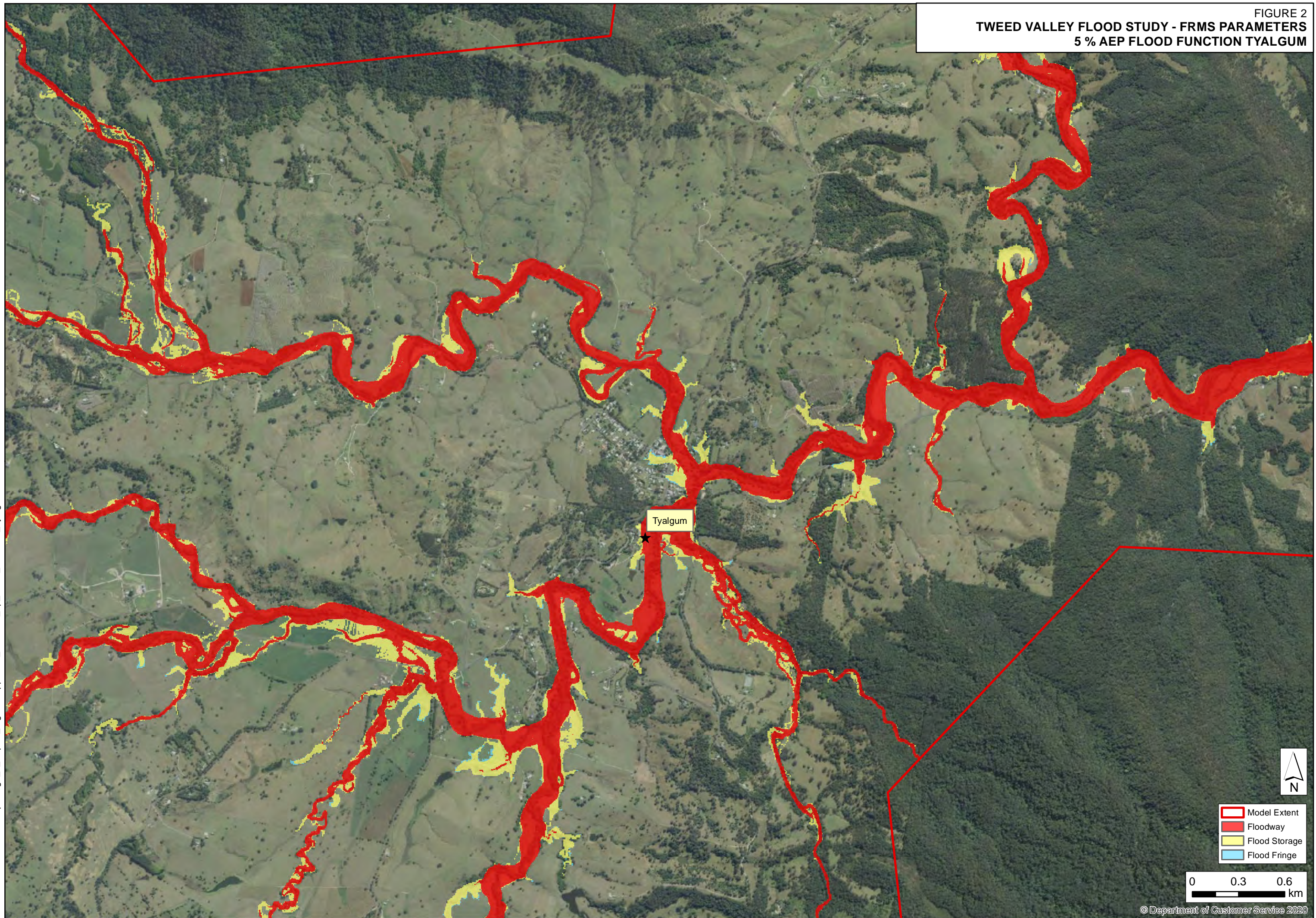
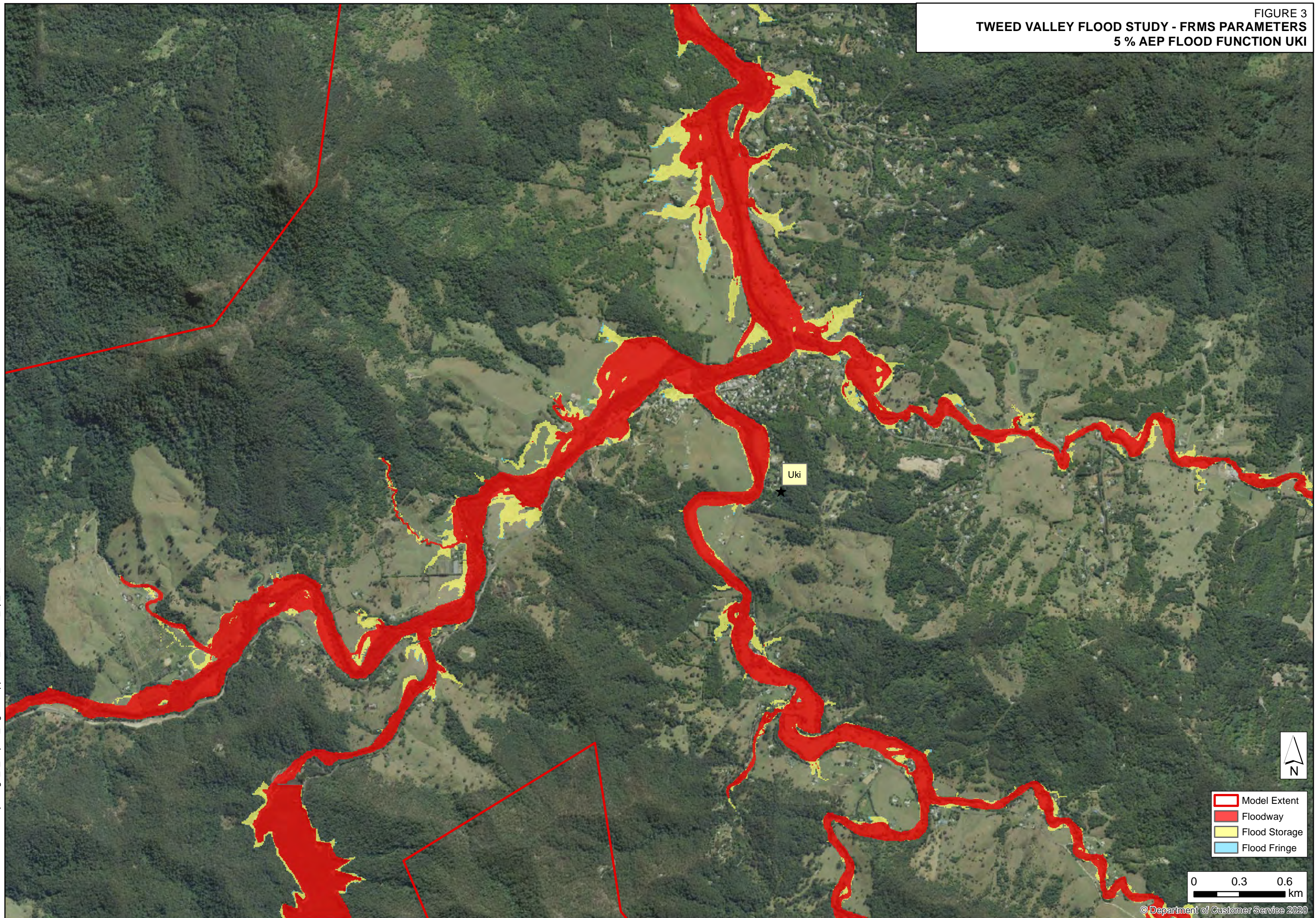
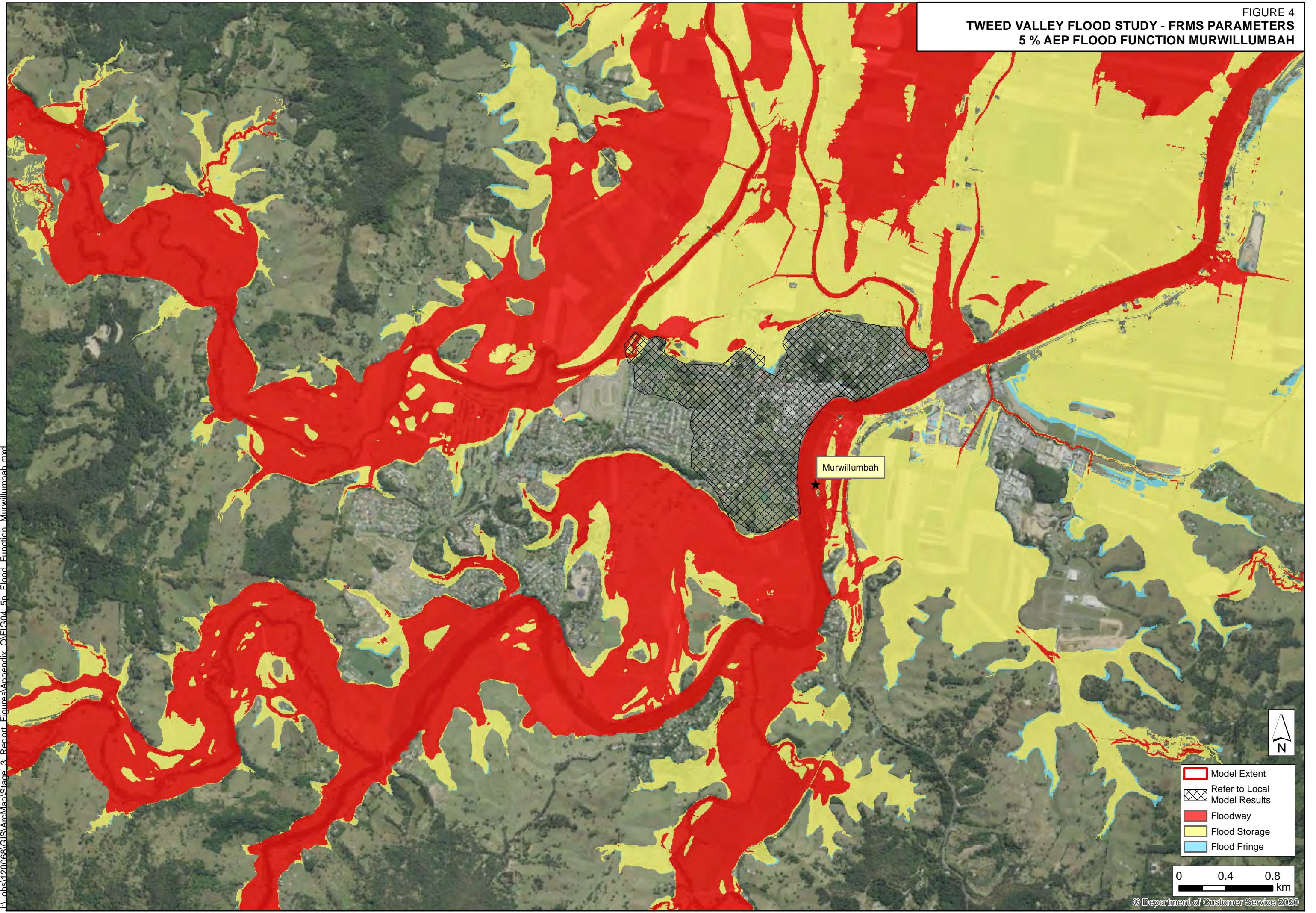


FIGURE 3
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % AEP FLOOD FUNCTION UKI



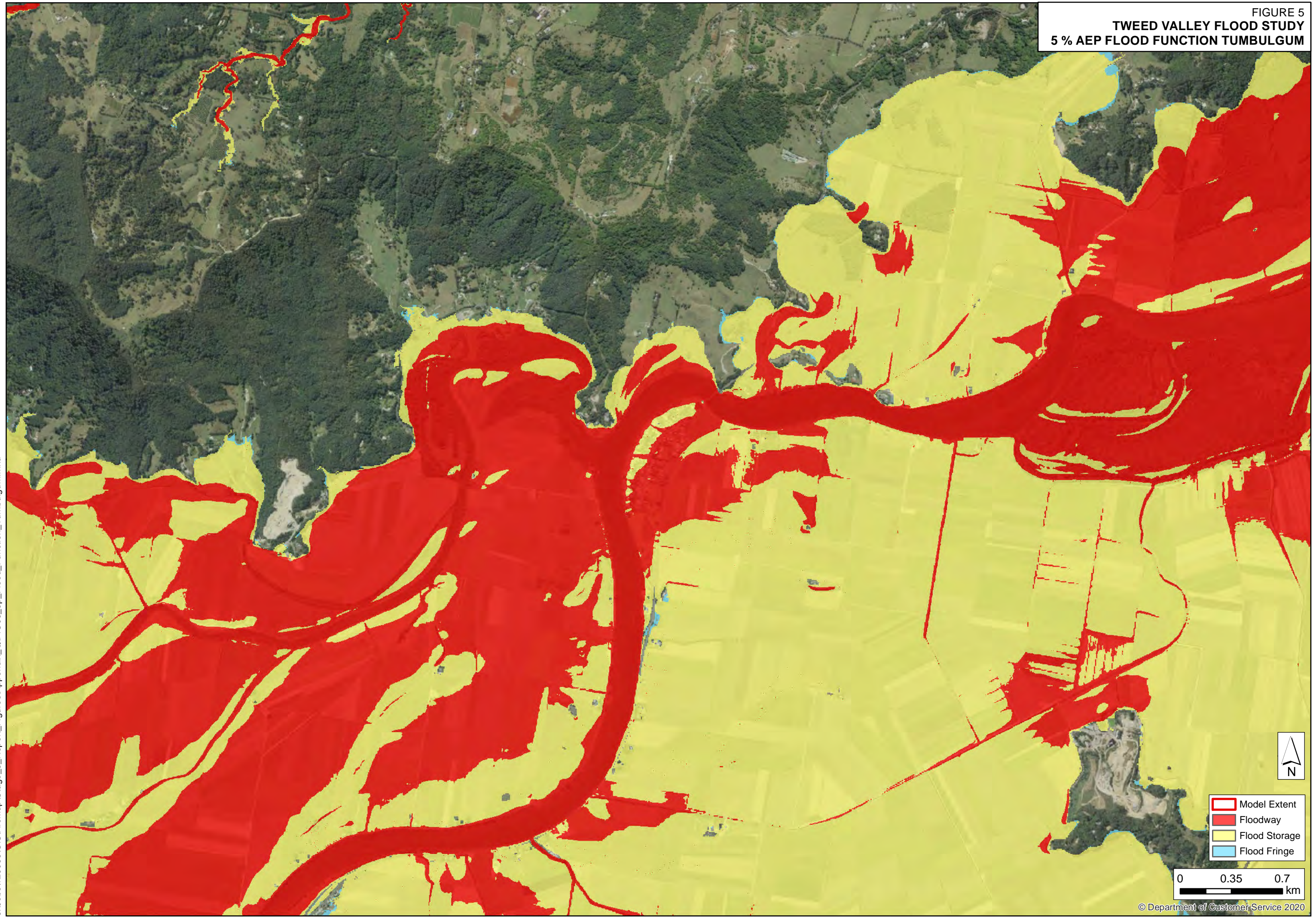
J:\Jobs\1200688\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG03_5p_Flood_Function_Uki.mxd

FIGURE 4
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % AEP FLOOD FUNCTION MURWILLUMBAH



\\jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_0\FIG04_5p_Flood_Function_Murwillumbah.mxd

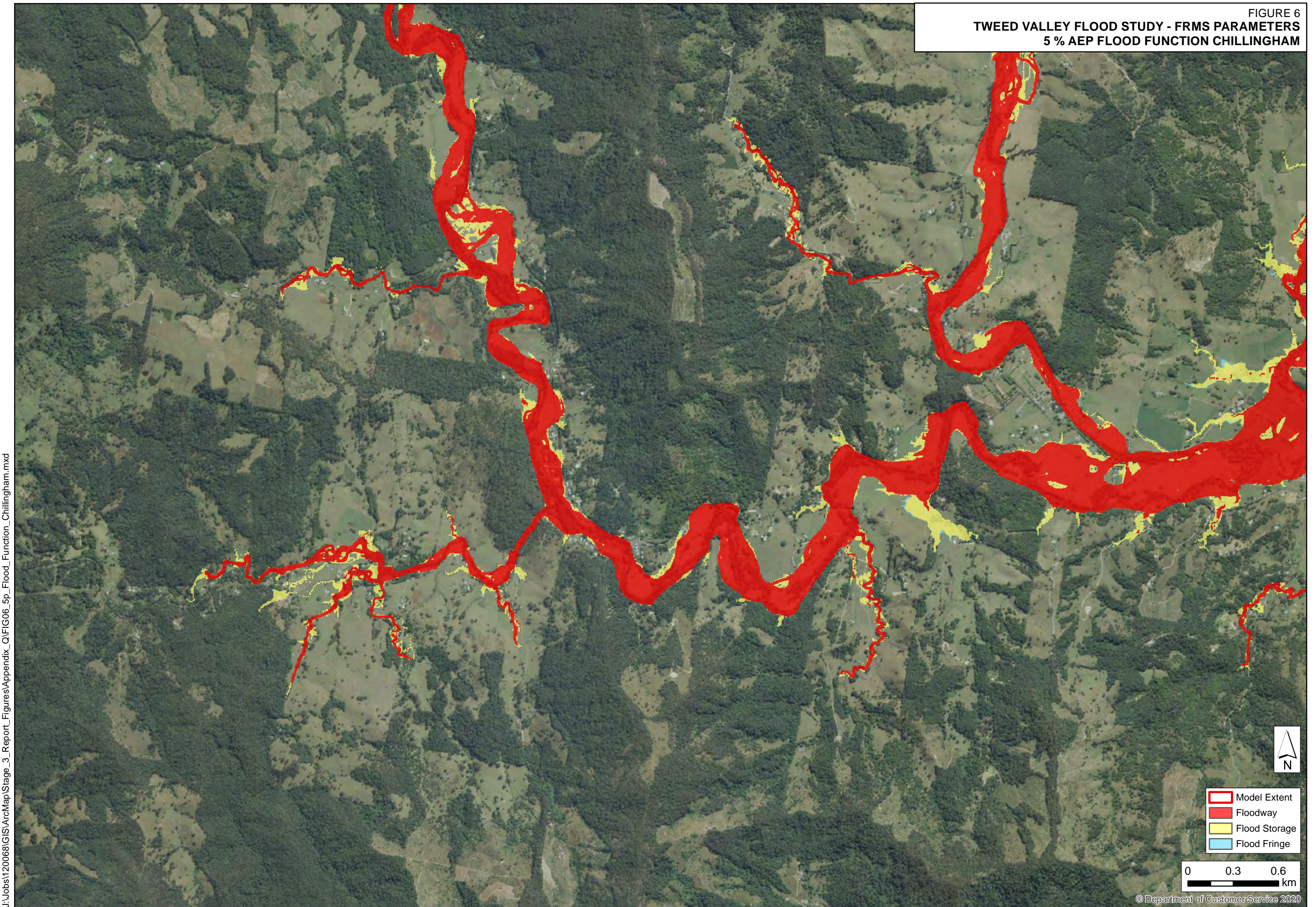
FIGURE 5
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD FUNCTION TUMBULGUM



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

0 0.35 0.7 km

FIGURE 6
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % AEP FLOOD FUNCTION CHILLINGHAM

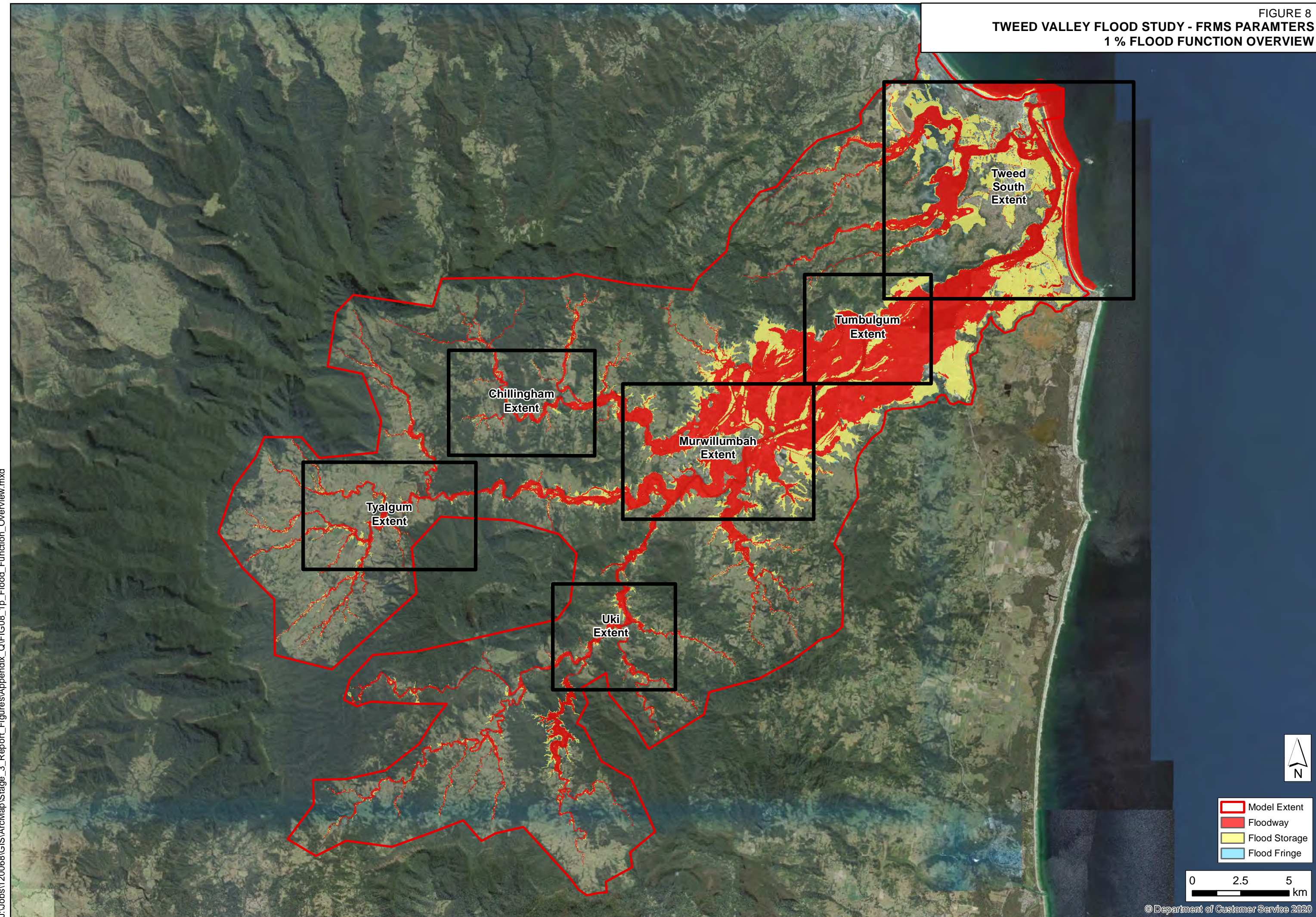


J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG06_5p_Flood_Function_Chillingham.mxd

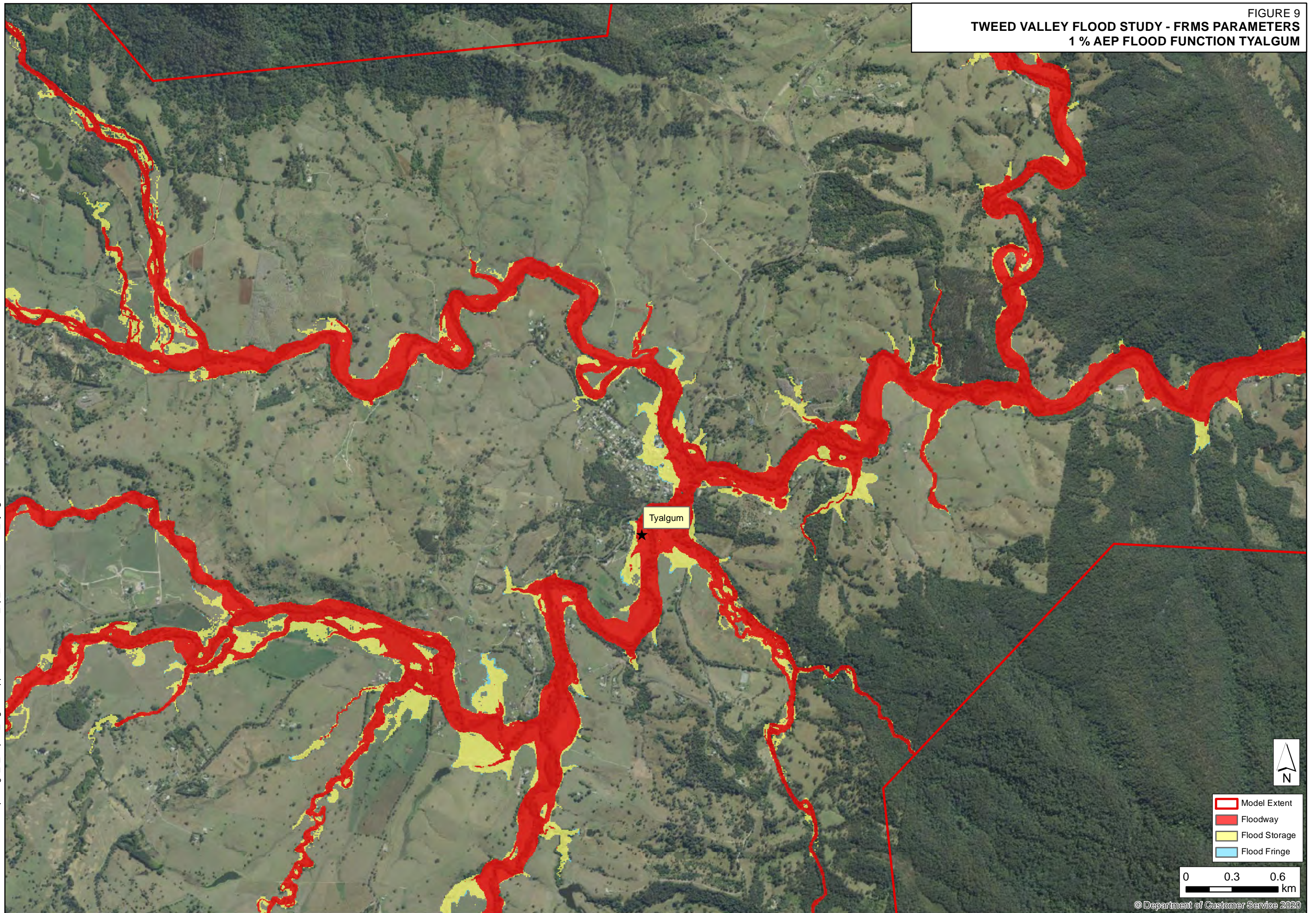
FIGURE 7
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
5 % AEP FLOOD FUNCTION TWEED SOUTH



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG07_5p_Flood_Function_Tweed_South.mxd



J:\Jobs\1200688\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG08_1p_Flood_Function_Overview.mxd

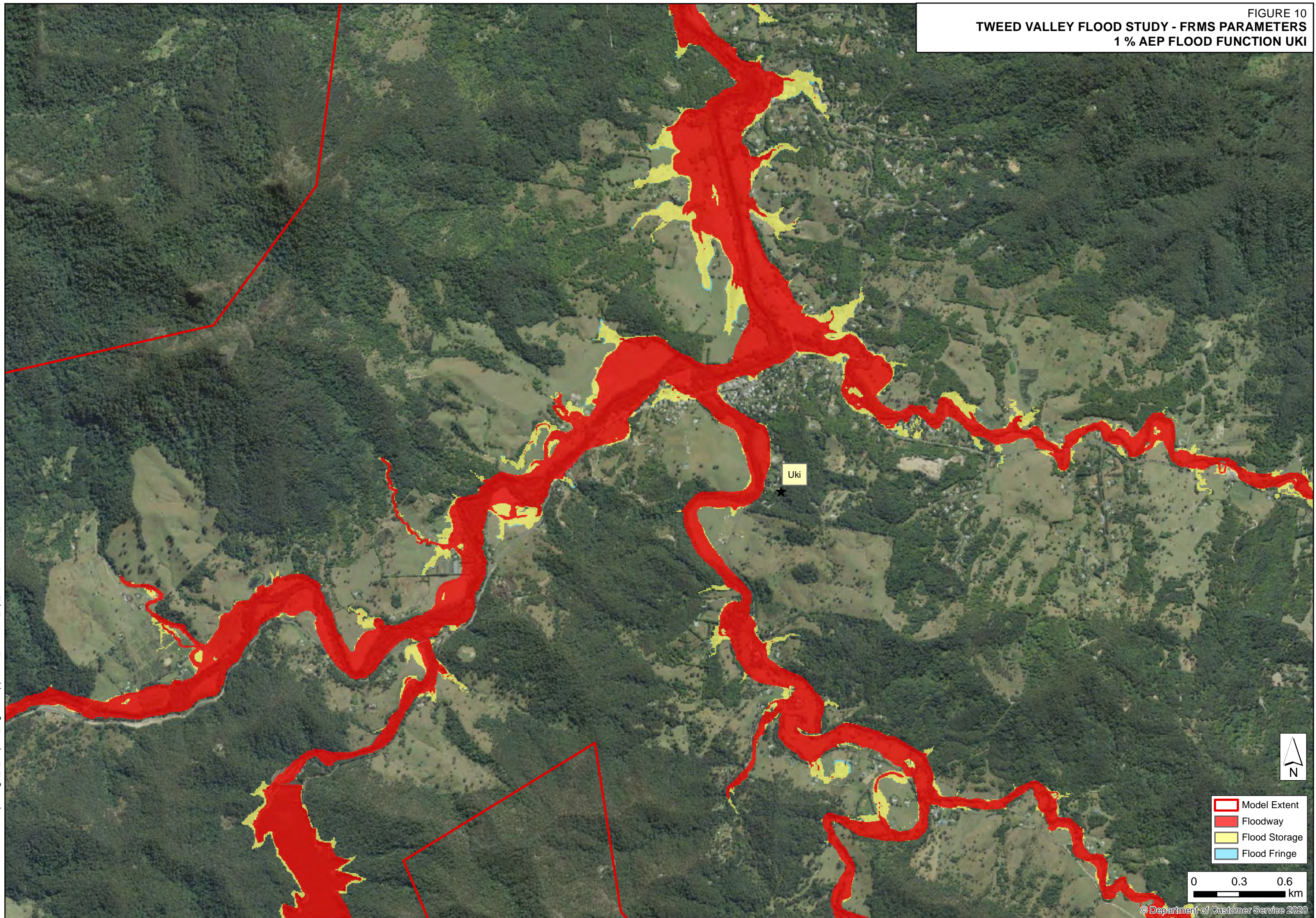


J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG09_1p_Flood_Function_Tyalgum.mxd

- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

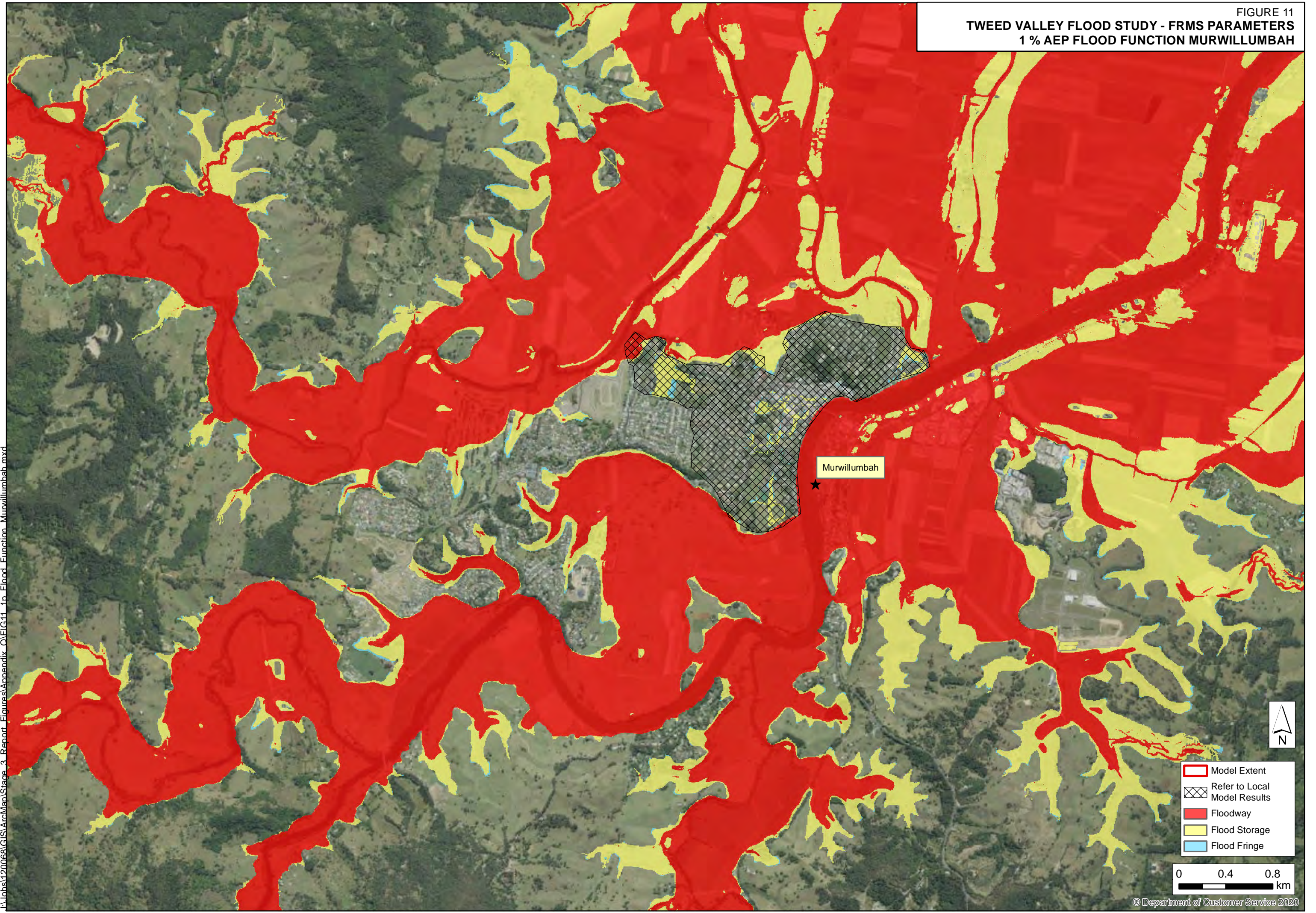
0 0.3 0.6 km

FIGURE 10
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
1 % AEP FLOOD FUNCTION UKI



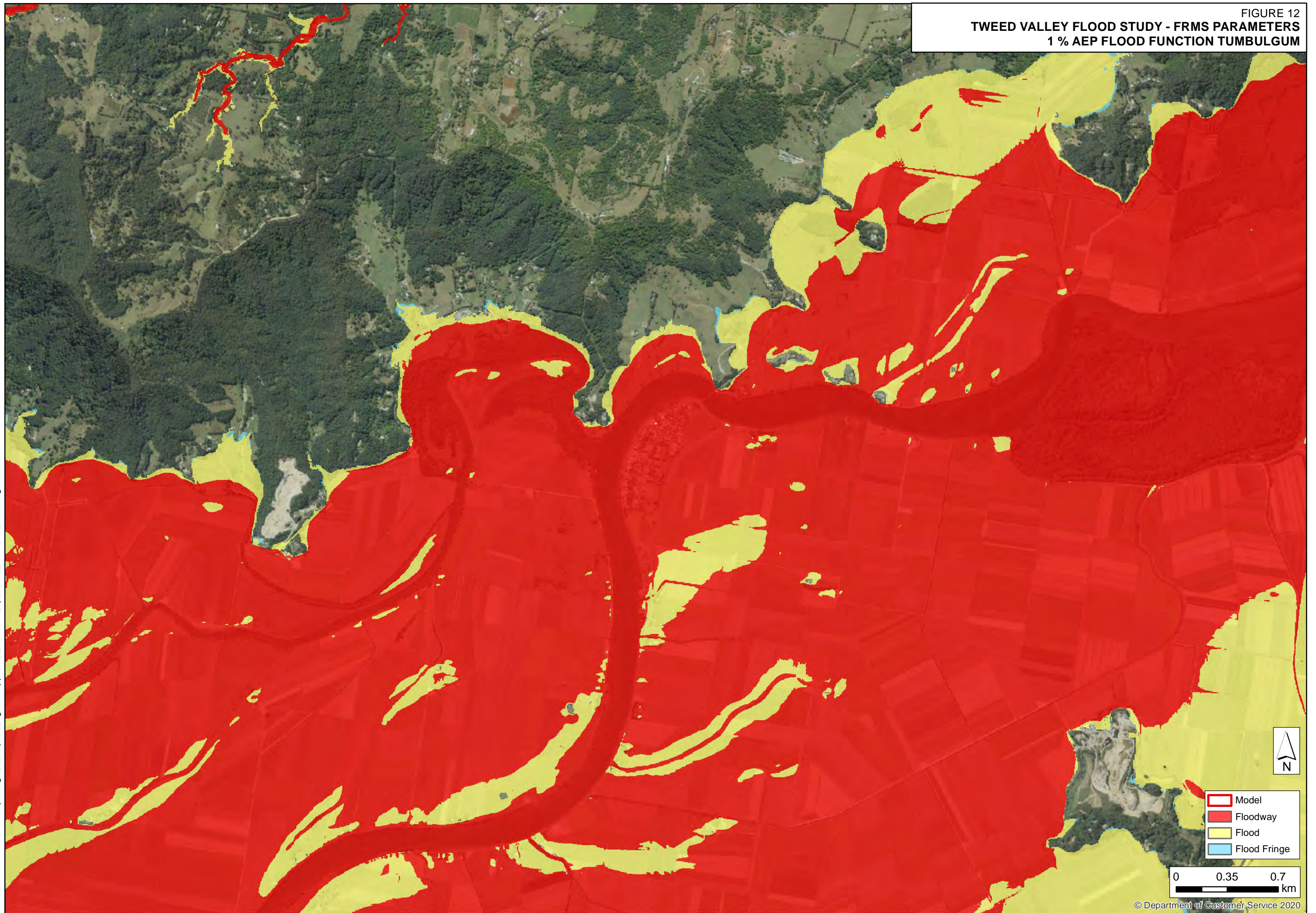
J:\Jobs\1200688\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG10_1p_Flood_Function_Uki.mxd

FIGURE 11
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
1 % AEP FLOOD FUNCTION MURWILLUMBAH



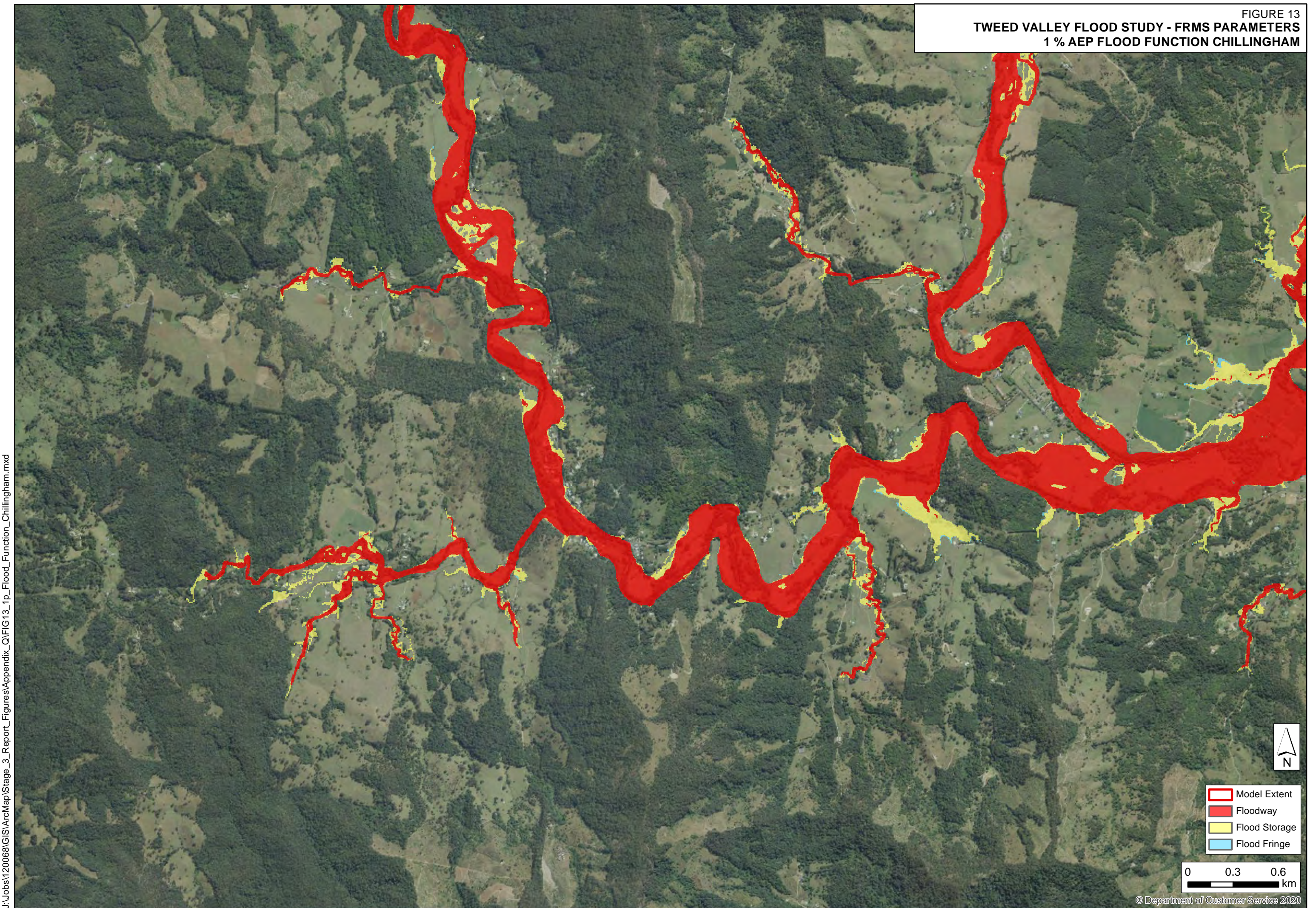
I:\Jobs\120068\GIS\Map\Stage_3_Report_Figures\Appendix_0\FIG11_1p_Flood_Function_Murwillumbah.mxd

FIGURE 12
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
1 % AEP FLOOD FUNCTION TUMBULGUM



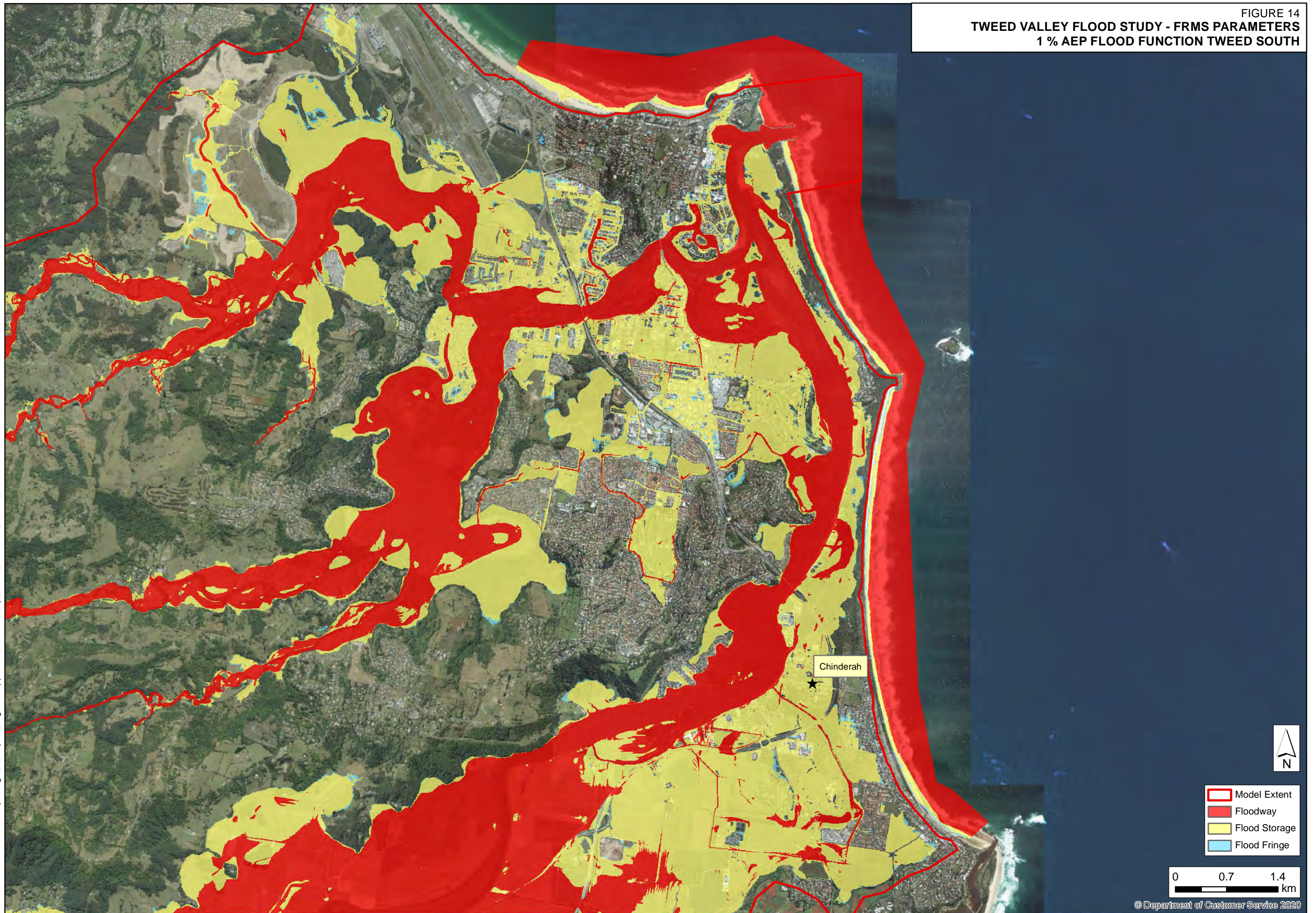
J:\Jobs\1200688\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG12_1p_Flood_Function_Tumbulgum.mxd

FIGURE 13
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
1 % AEP FLOOD FUNCTION CHILLINGHAM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG13_1p_Flood_Function_Chillingham.mxd

FIGURE 14
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
1 % AEP FLOOD FUNCTION TWEED SOUTH



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG14_1p_Flood_Function_Tweed_South.mxd

FIGURE 15
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % FLOOD FUNCTION OVERVIEW

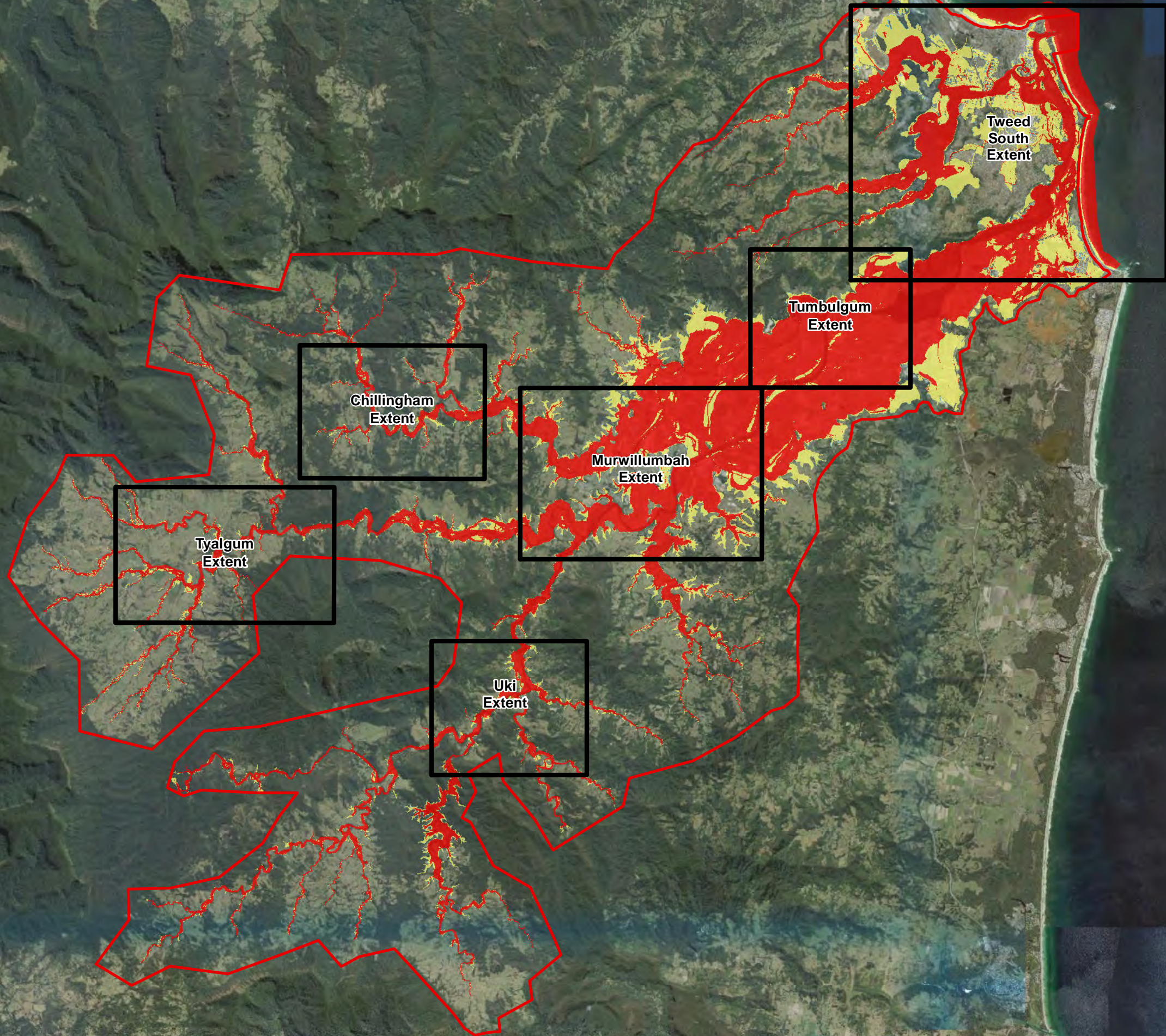
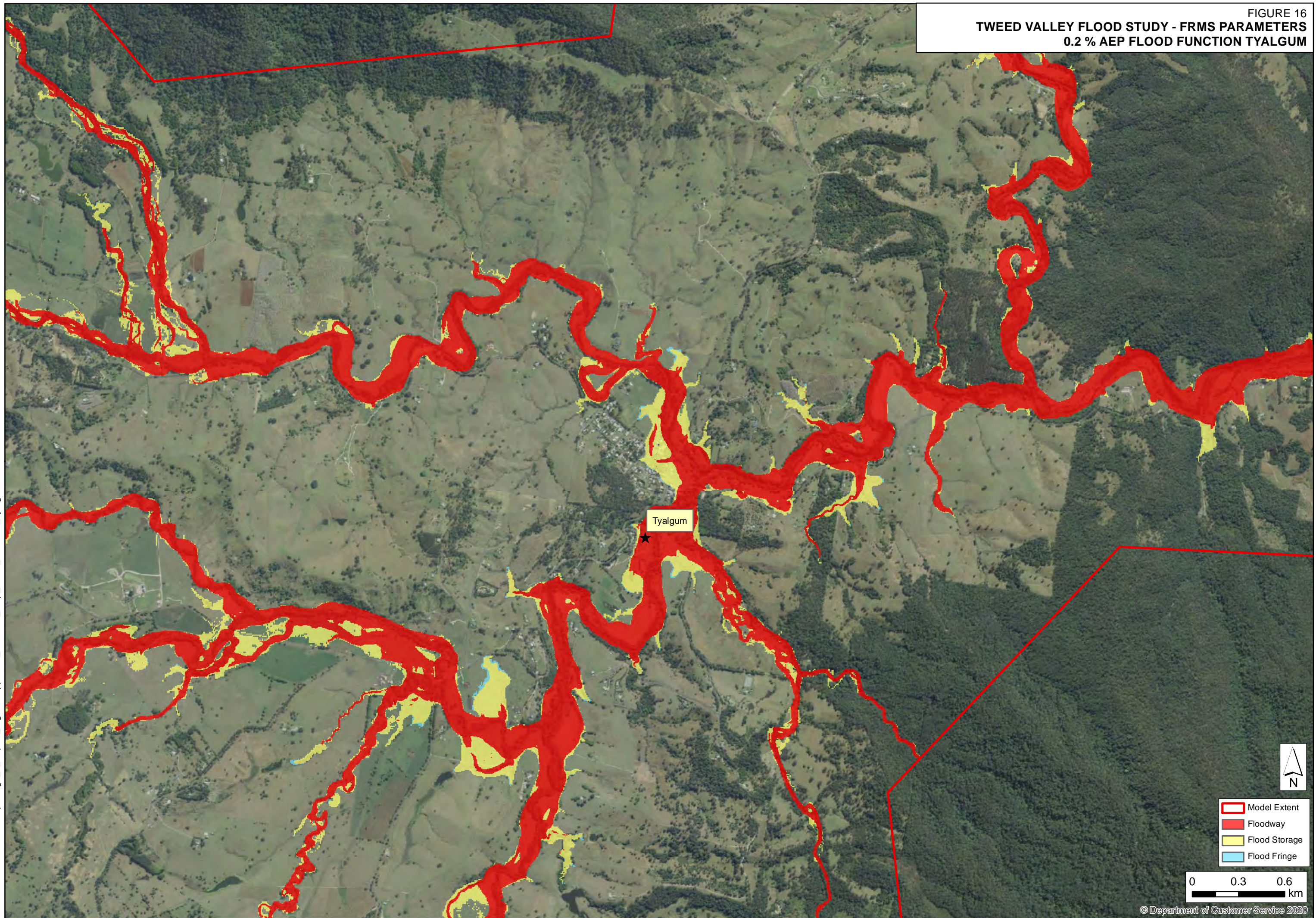


FIGURE 16
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION TYALGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG16_0.2p_Flood_Function_Tyalgum.mxd

FIGURE 17
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION UKI

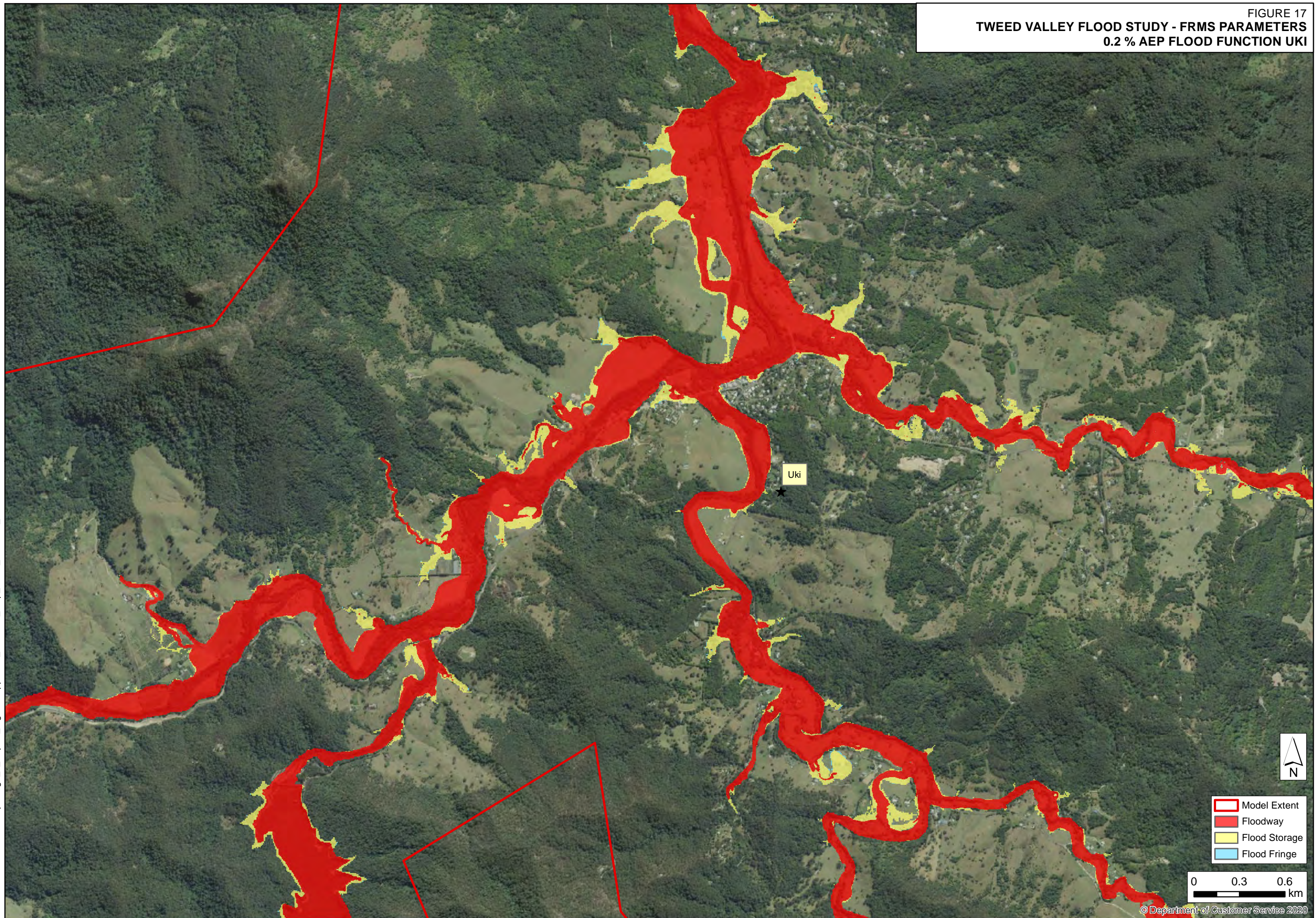


FIGURE 18
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION MURWILLUMBAH

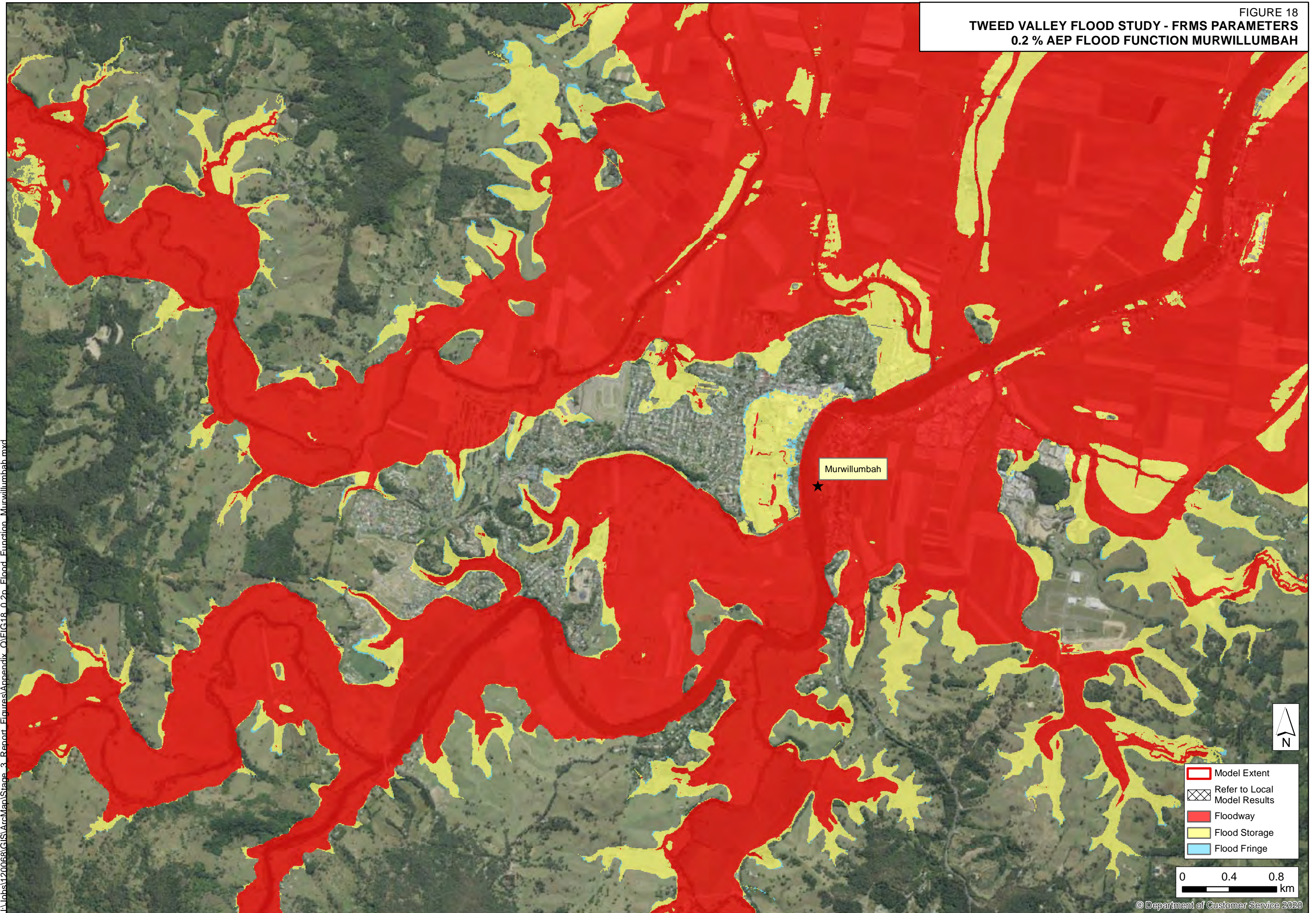


FIGURE 19
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION TUMBULGUM

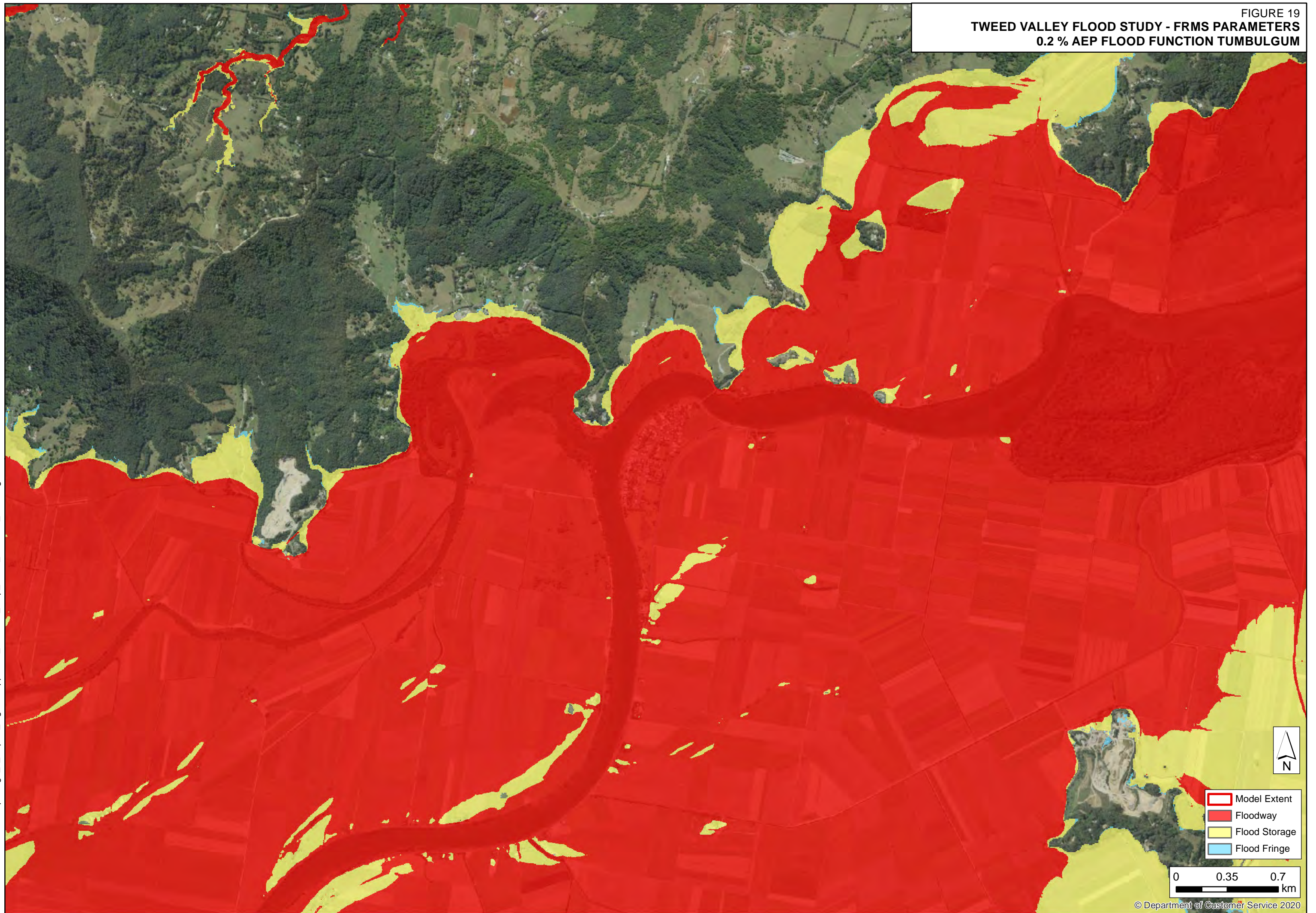
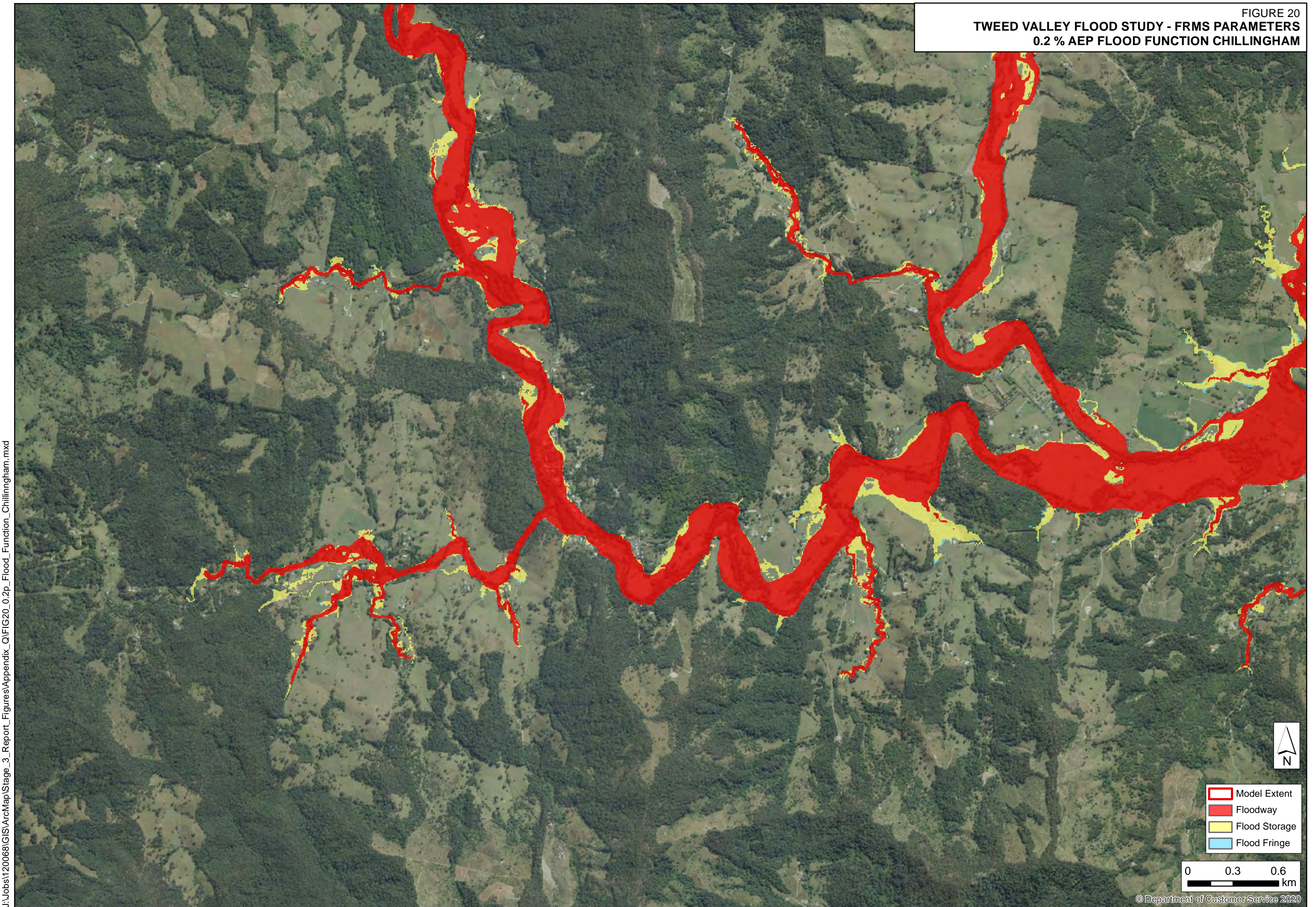


FIGURE 20
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION CHILLINGHAM

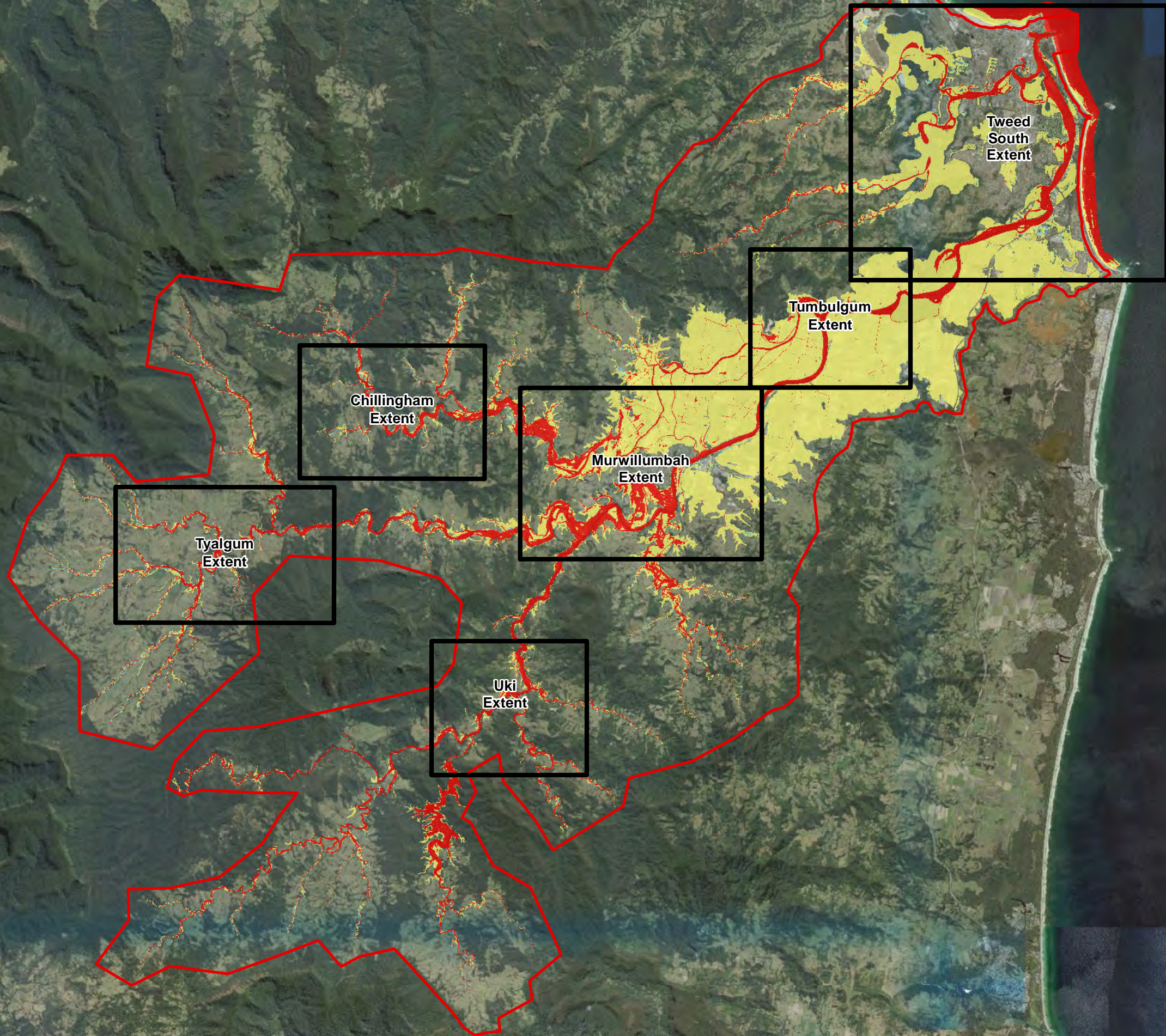


J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG20_0.2p_Flood_Function_Chillingham.mxd

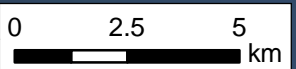
FIGURE 21
TWEED VALLEY FLOOD STUDY - FRMS PARAMETERS
0.2 % AEP FLOOD FUNCTION TWEED SOUTH



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG21_0.2p_Flood_Function_Tweed_South.mxd

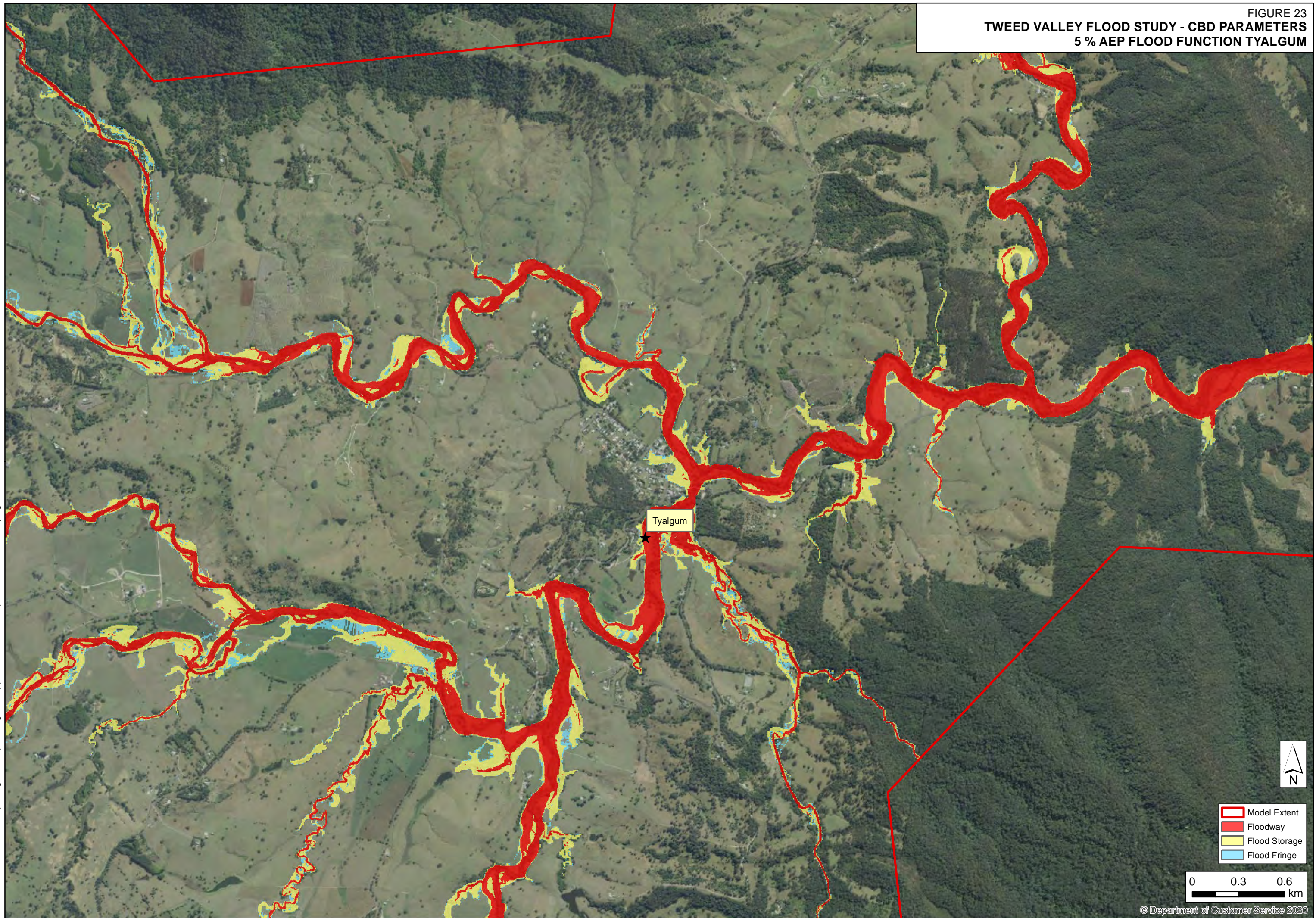


- Model Extent
- Floodway
- Flood Storage
- Flood Fringe



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG22_5p_Flood_Function_Overview_.mxd

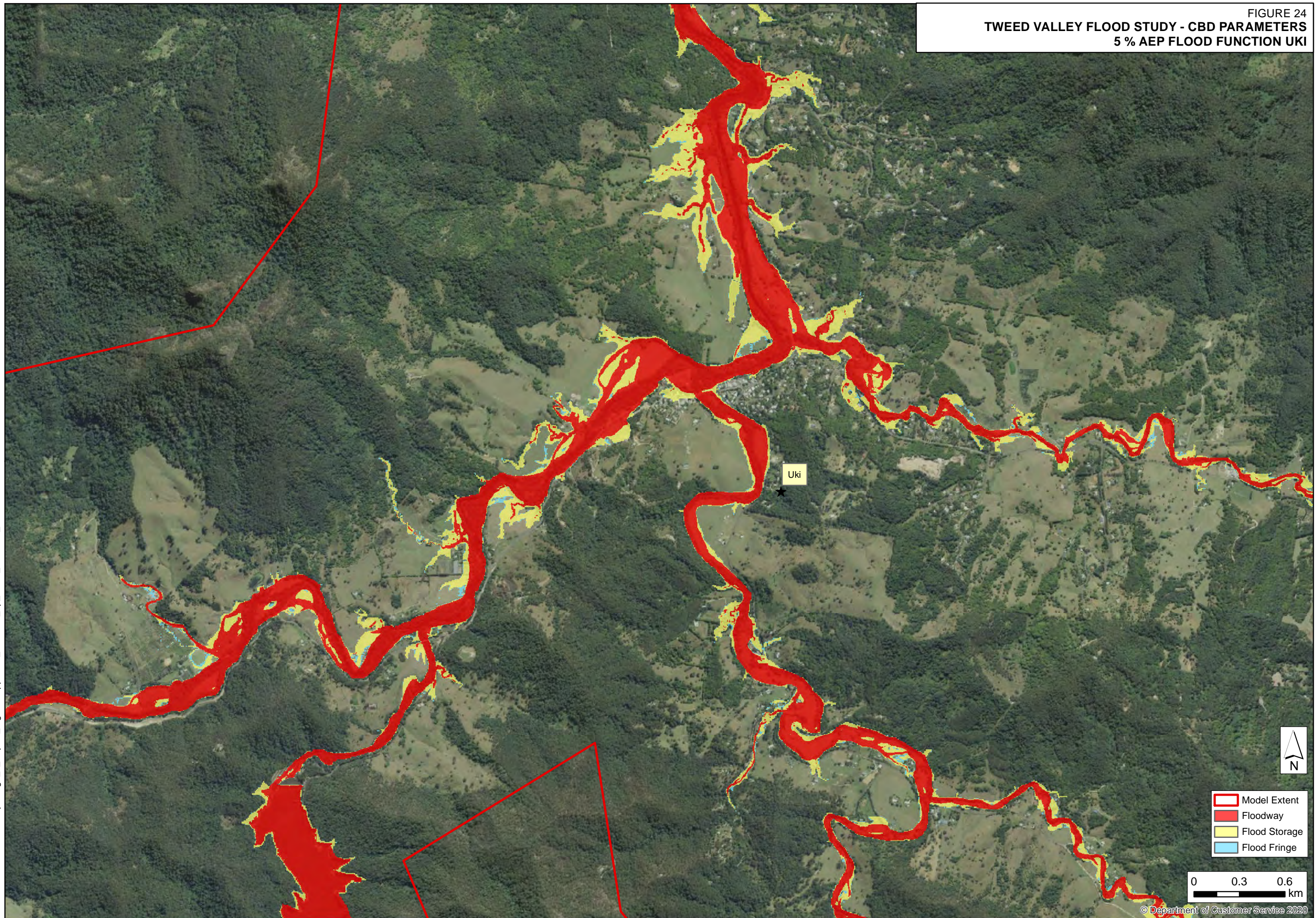
FIGURE 23
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION TYALGUM



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

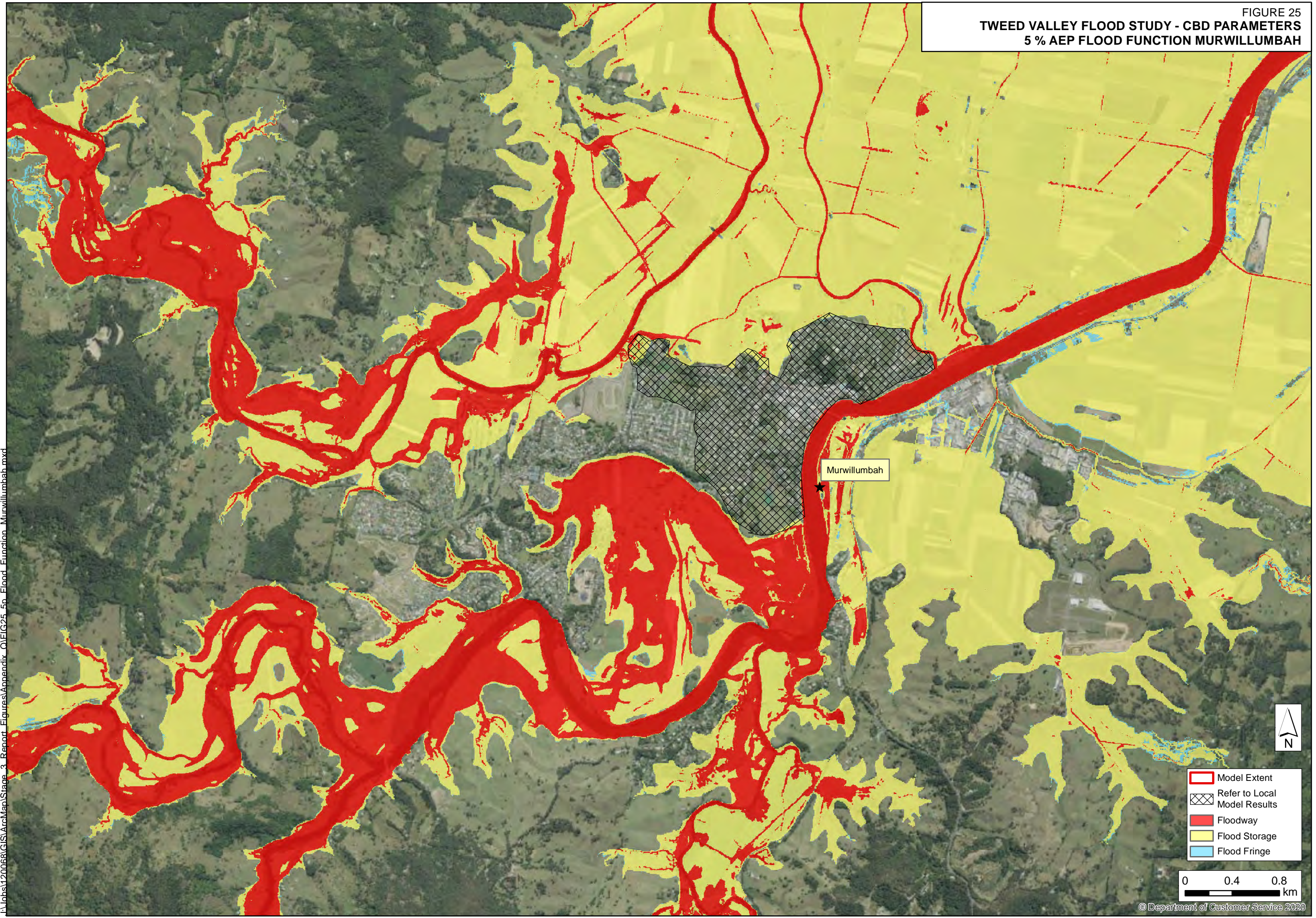
0 0.3 0.6
km

FIGURE 24
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION UKI



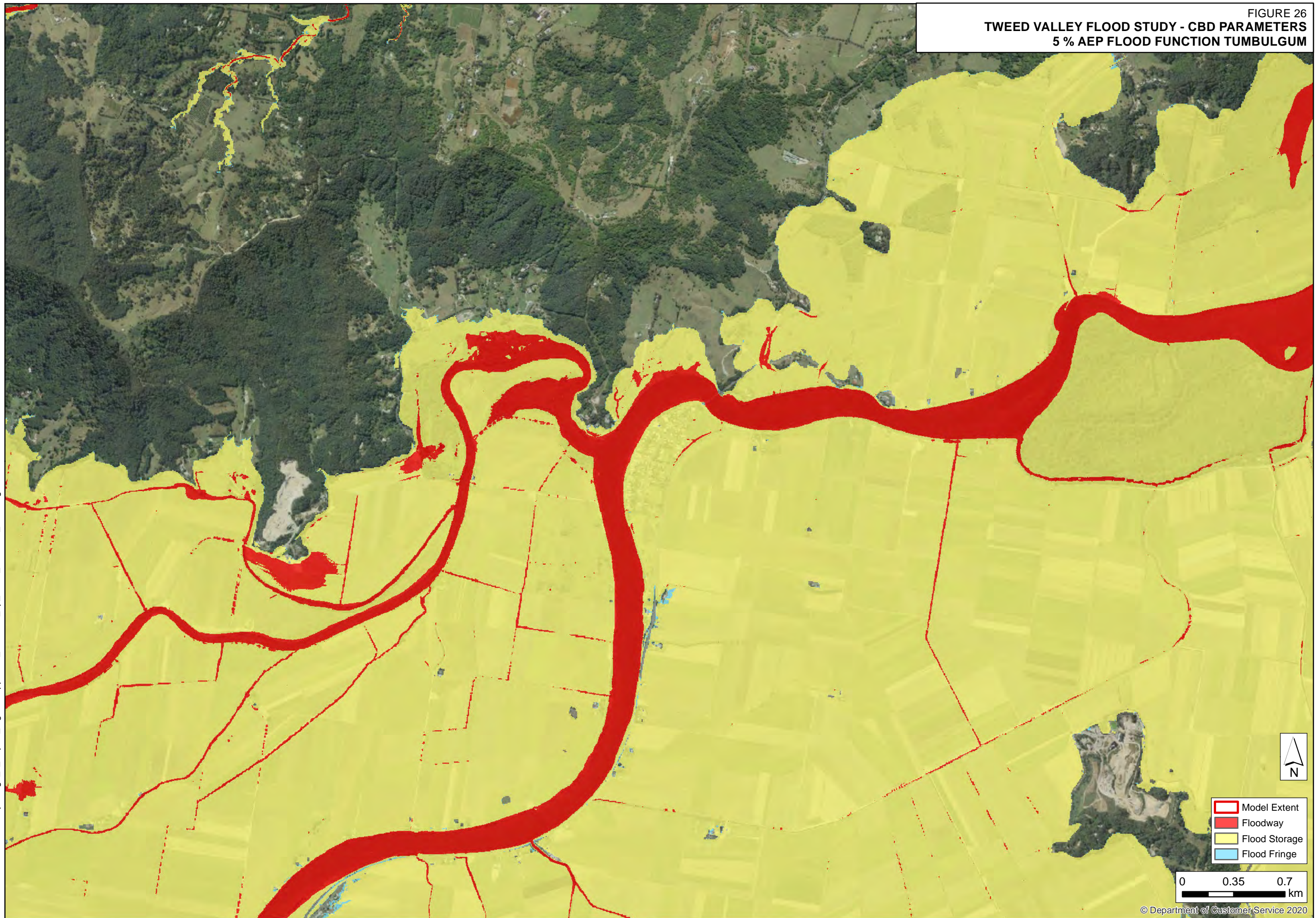
J:\Jobs\1200688\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG24_5p_Flood_Function_Uki.mxd

FIGURE 25
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION MURWILLUMBAH



I:\Jobs\120068\GIS\Map\Stage_3_Report_Figures\Appendix_01\FIG25_5p_Flood_Function_Murwillumbah.mxd

FIGURE 26
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION TUMBULGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG26_5p_Flood_Function_Tumbulgum.mxd

FIGURE 27
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION CHILLINGHAM

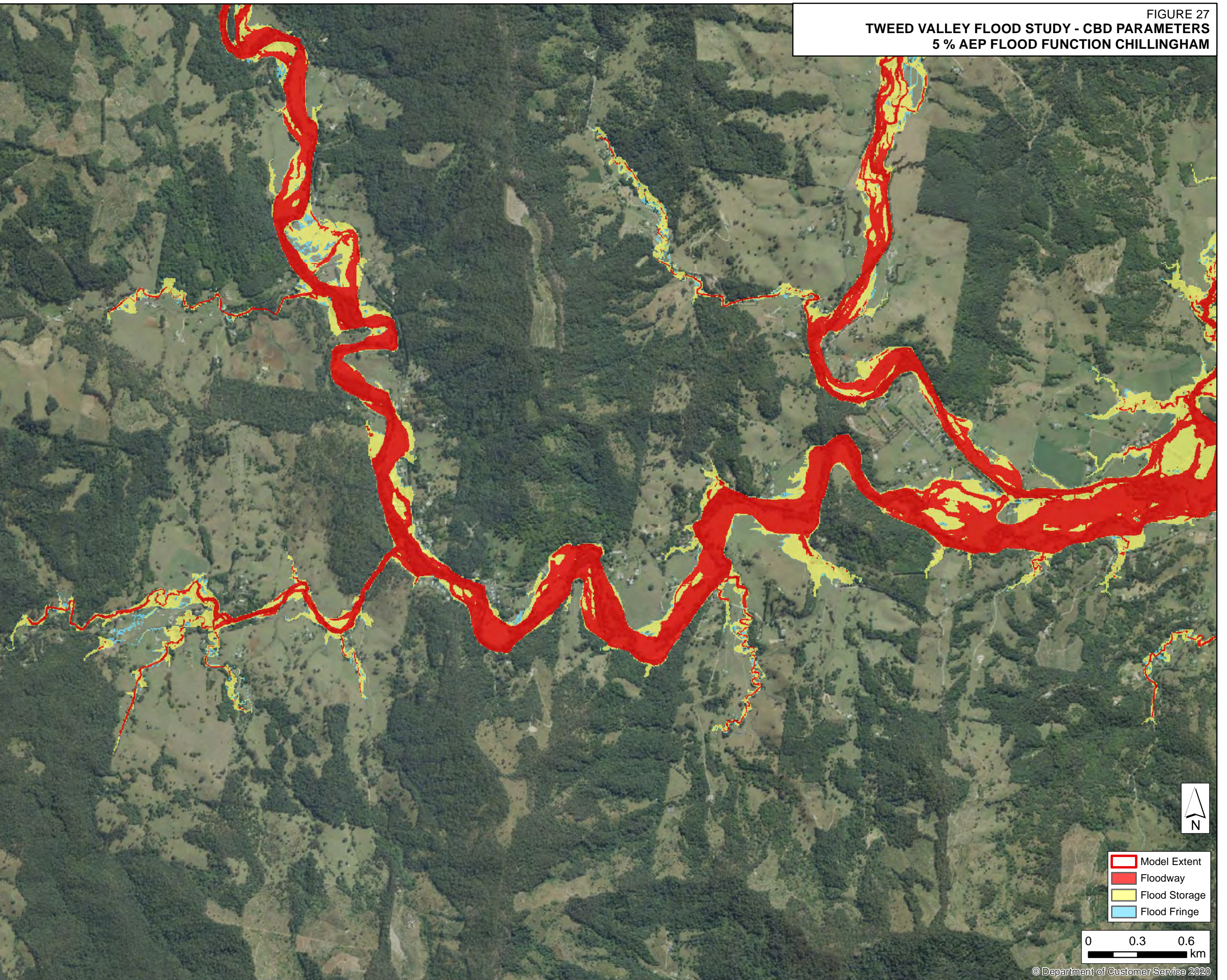
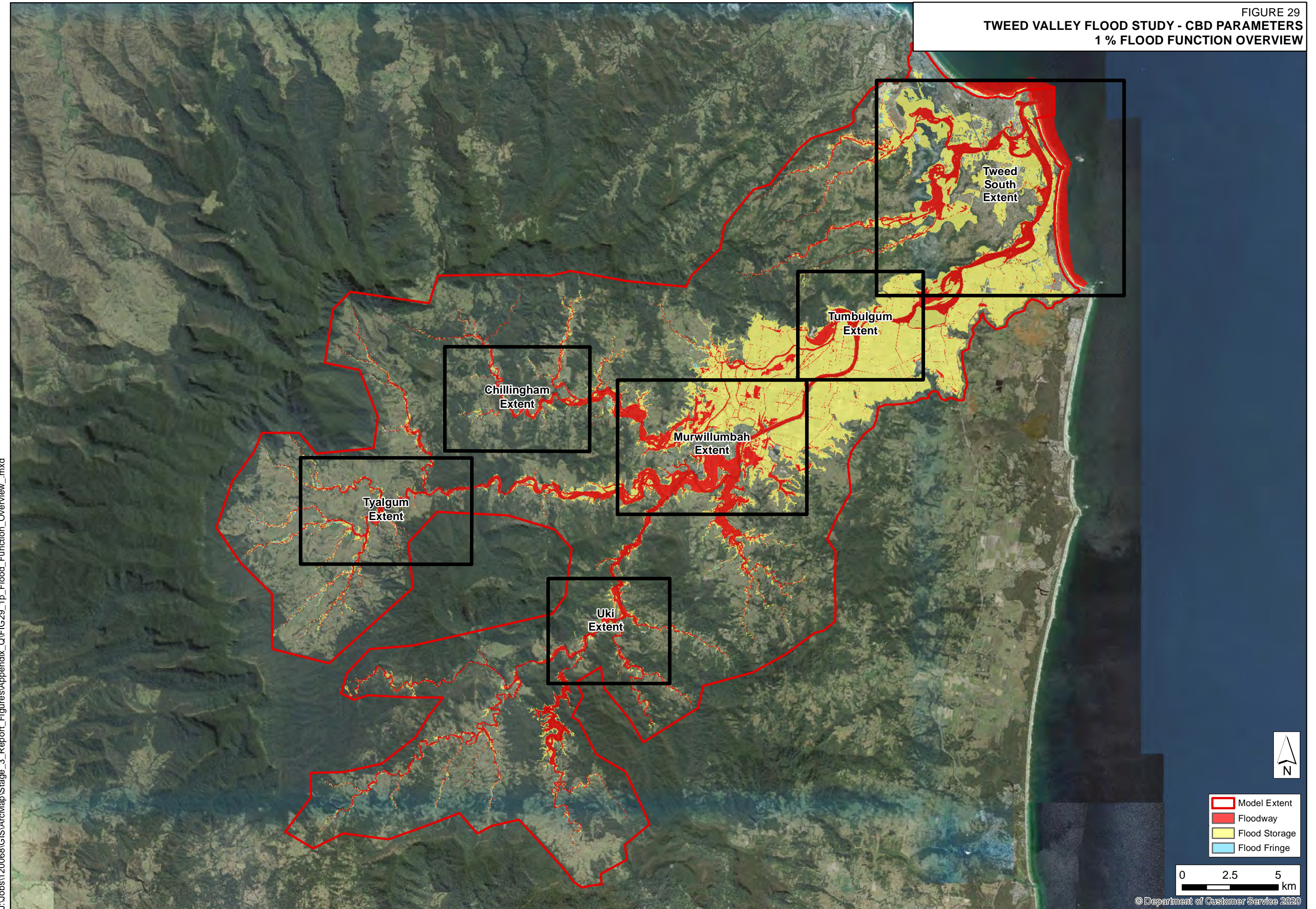


FIGURE 28
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
5 % AEP FLOOD FUNCTION TWEED SOUTH



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG28_5p_Flood_Function_Tweed_South.mxd



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG29_1p_Flood_Function_Overview_.mxd

FIGURE 30
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION TYALGUM

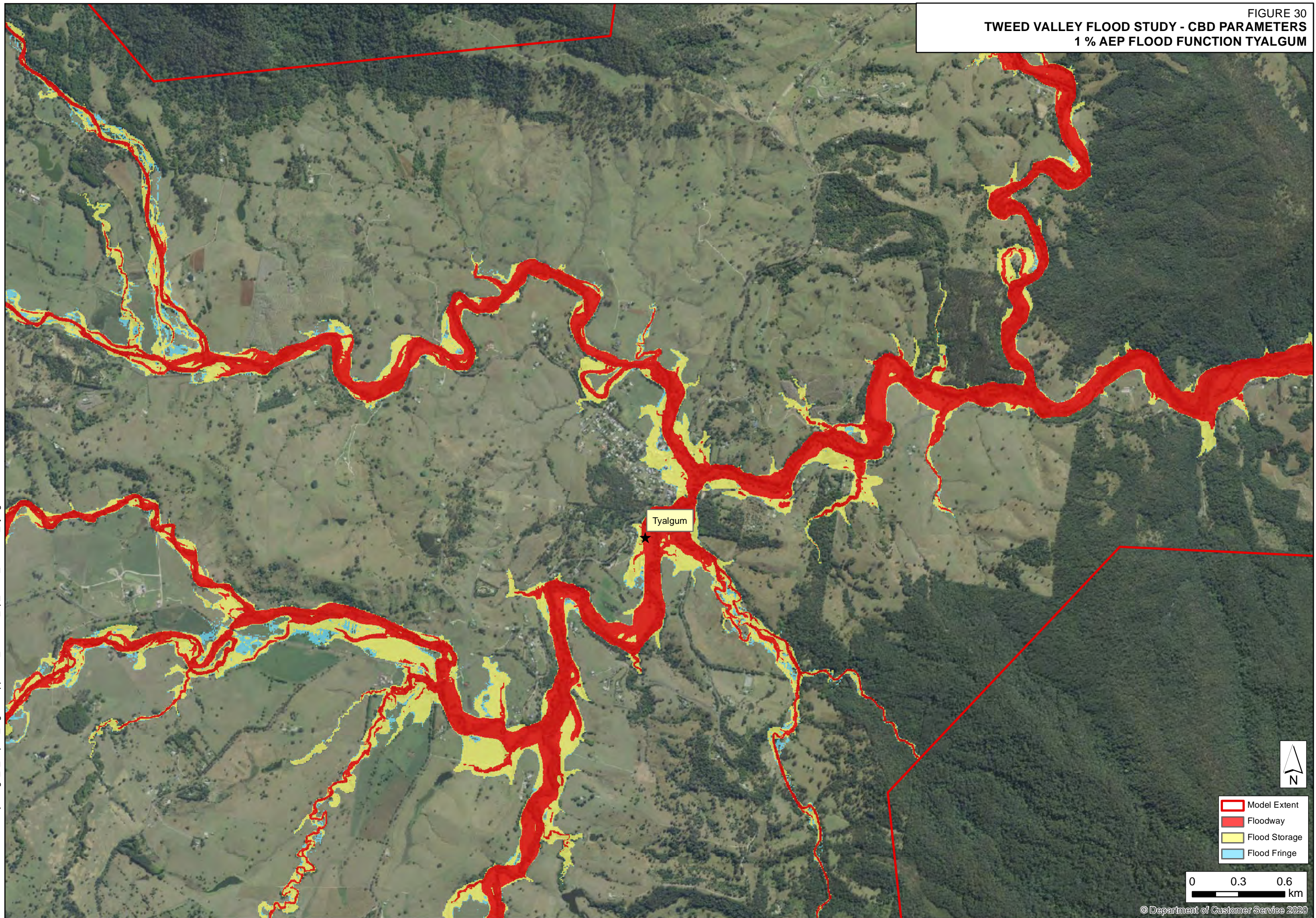
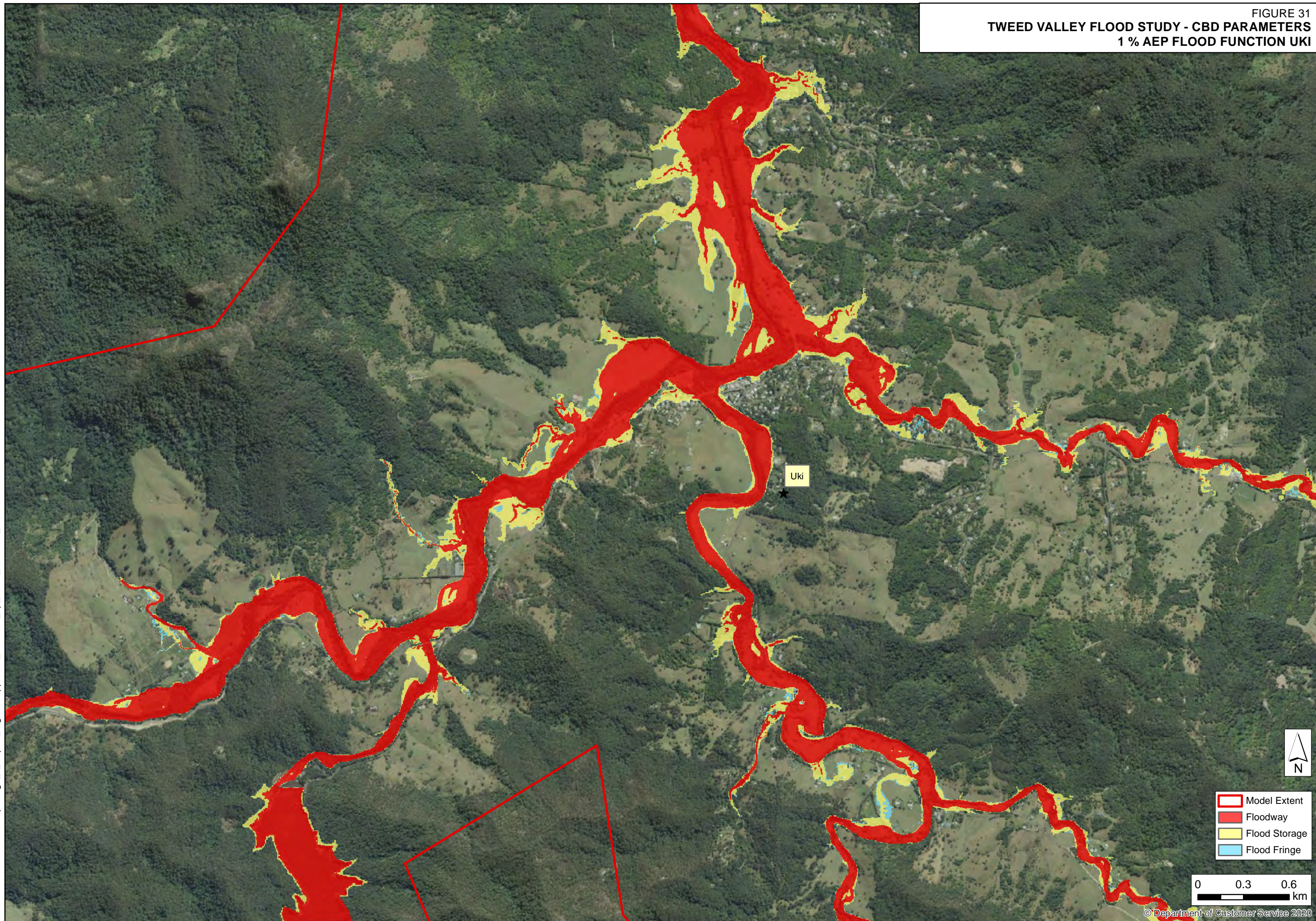
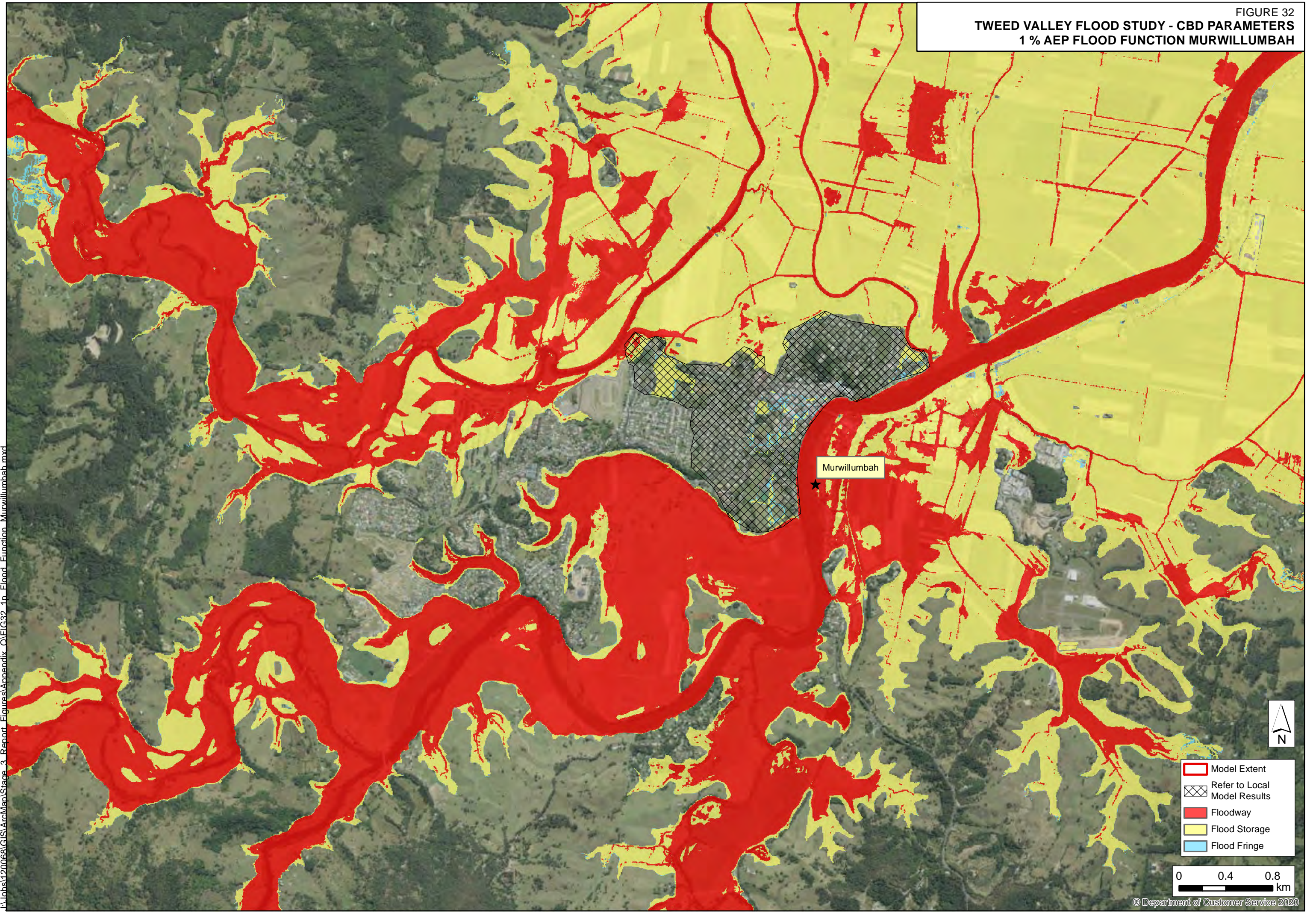


FIGURE 31
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION UKI



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG31_1p_Flood_Function_Uki.mxd

FIGURE 32
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION MURWILLUMBAH



I:\Jobs\120068\GIS\Map\Stage_3_Report_Figures\Appendix_0\FIG32_1p_Flood_Function_Murwillumbah.mxd

FIGURE 33
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION TUMBULGUM

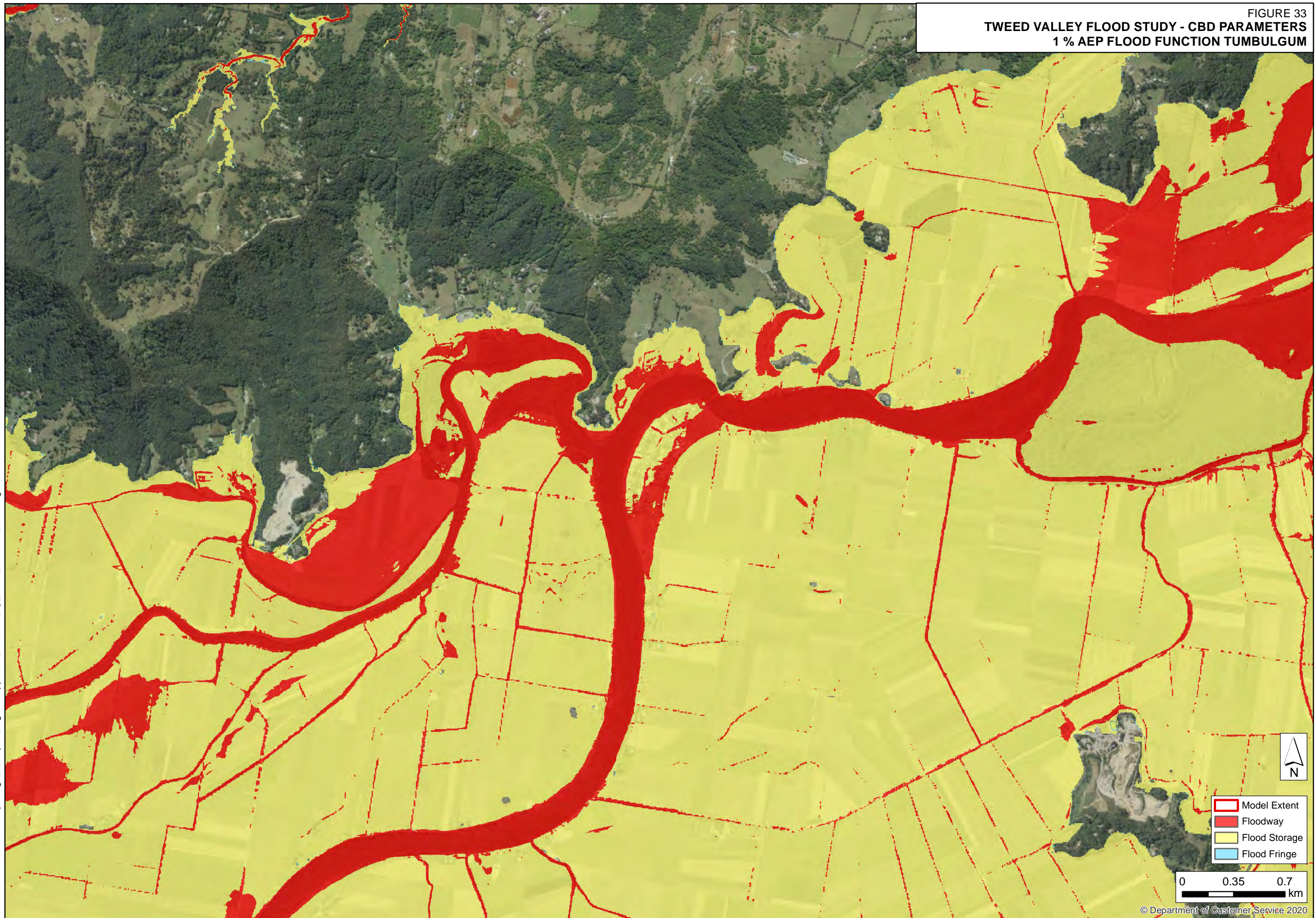
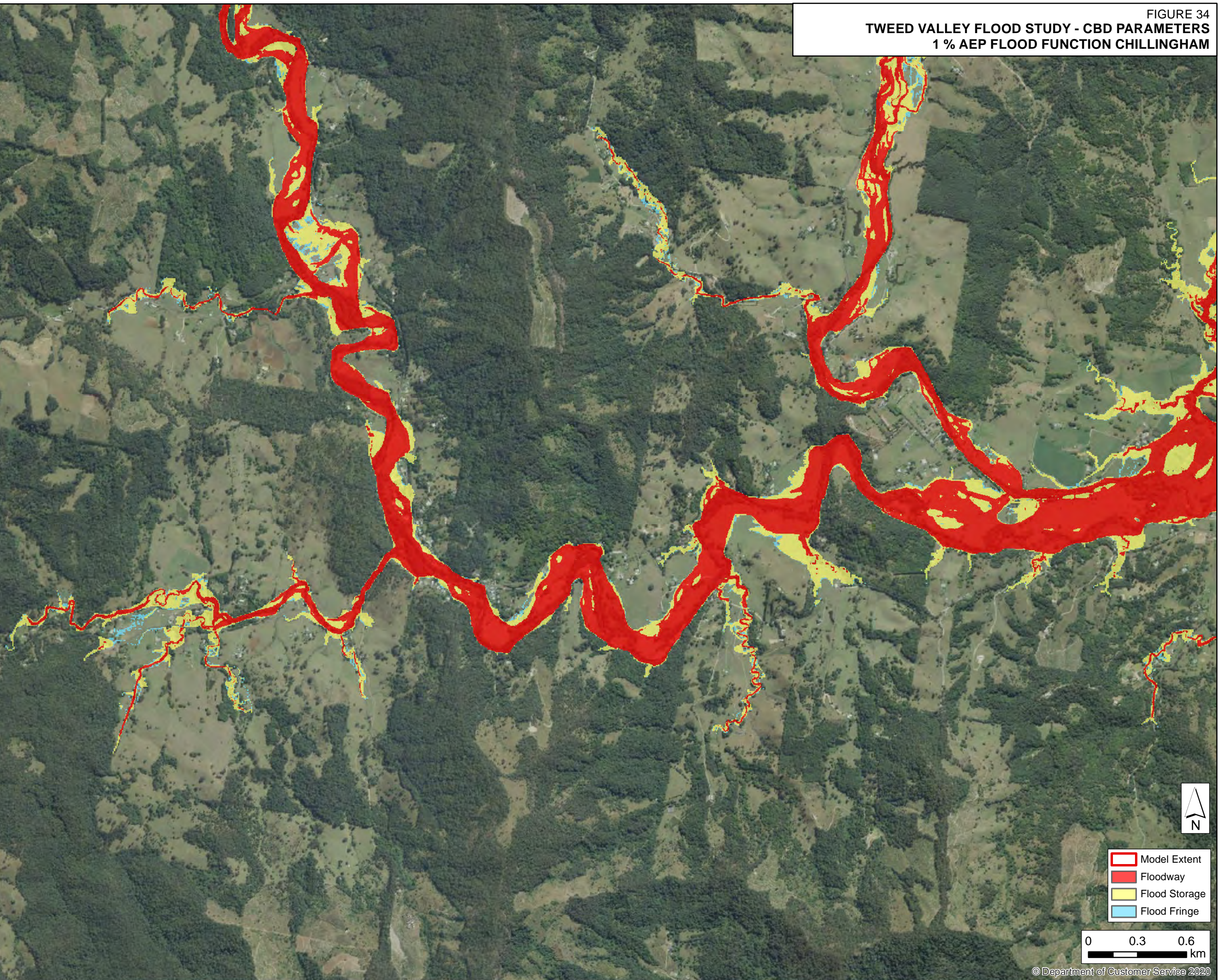


FIGURE 34
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION CHILLINGHAM



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

0 0.3 0.6 km

FIGURE 35
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
1 % AEP FLOOD FUNCTION TWEED SOUTH

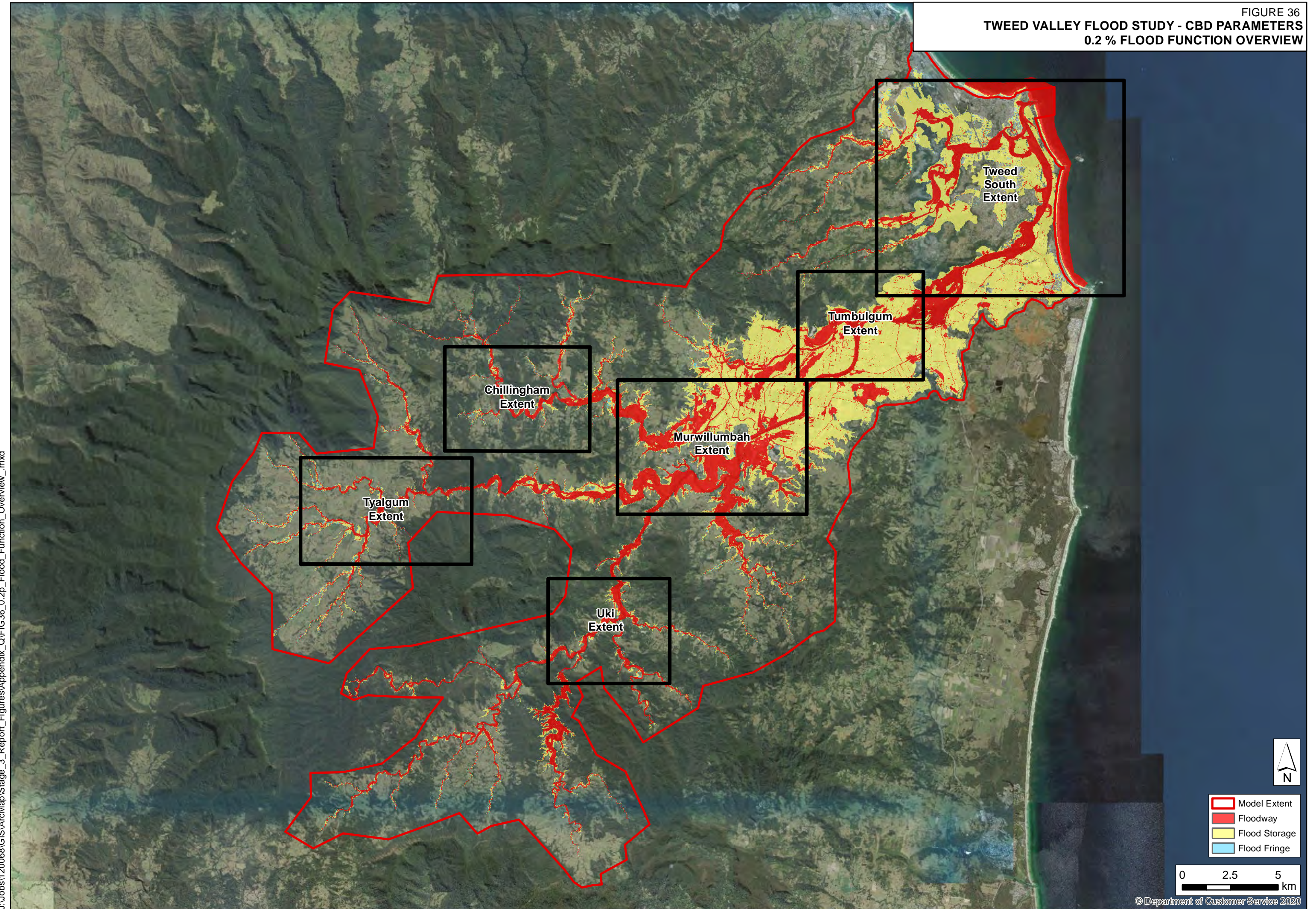


- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

0 0.7 1.4
km

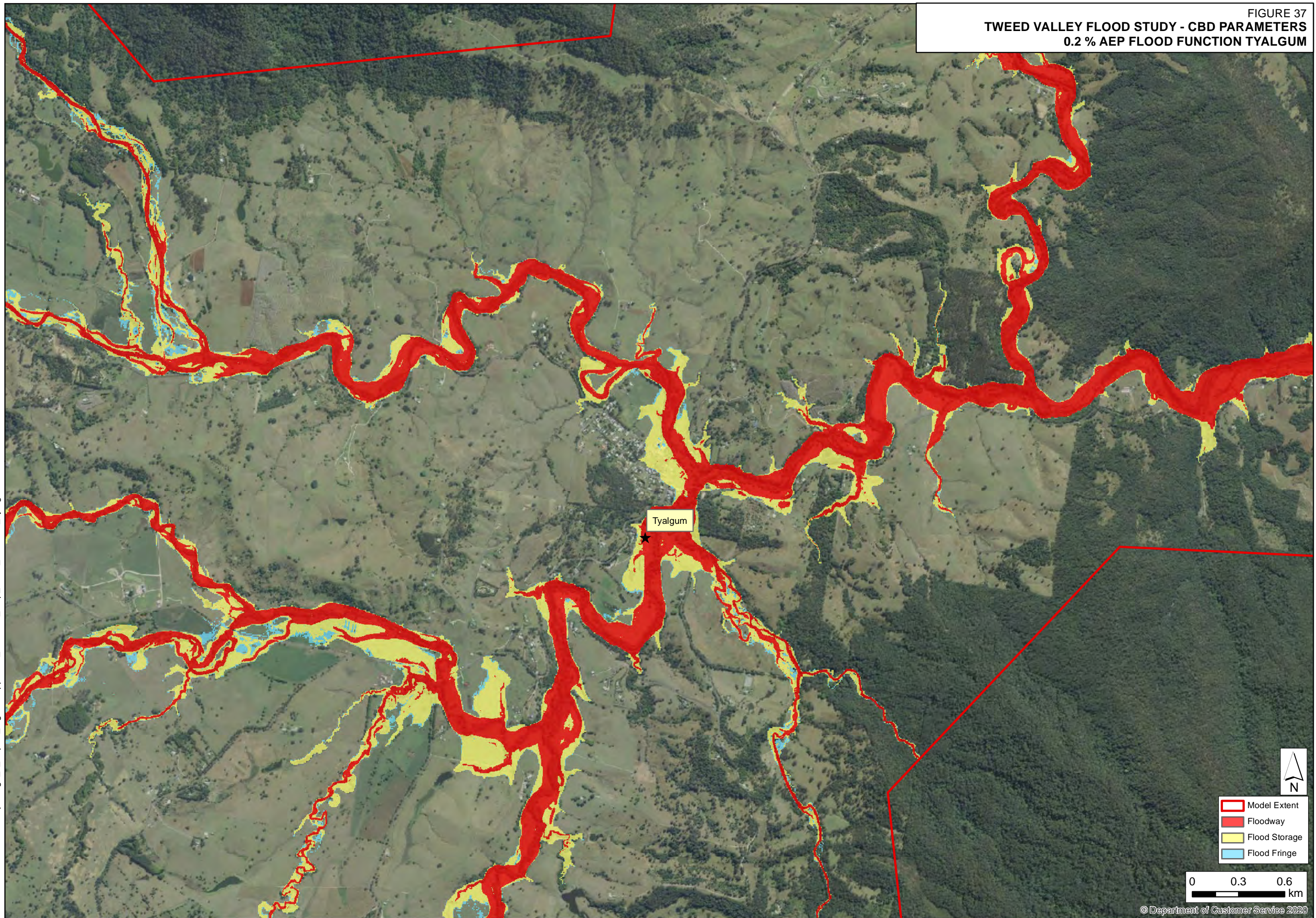
J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG35_1p_Flood_Function_Tweed_South.mxd

TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % FLOOD FUNCTION OVERVIEW



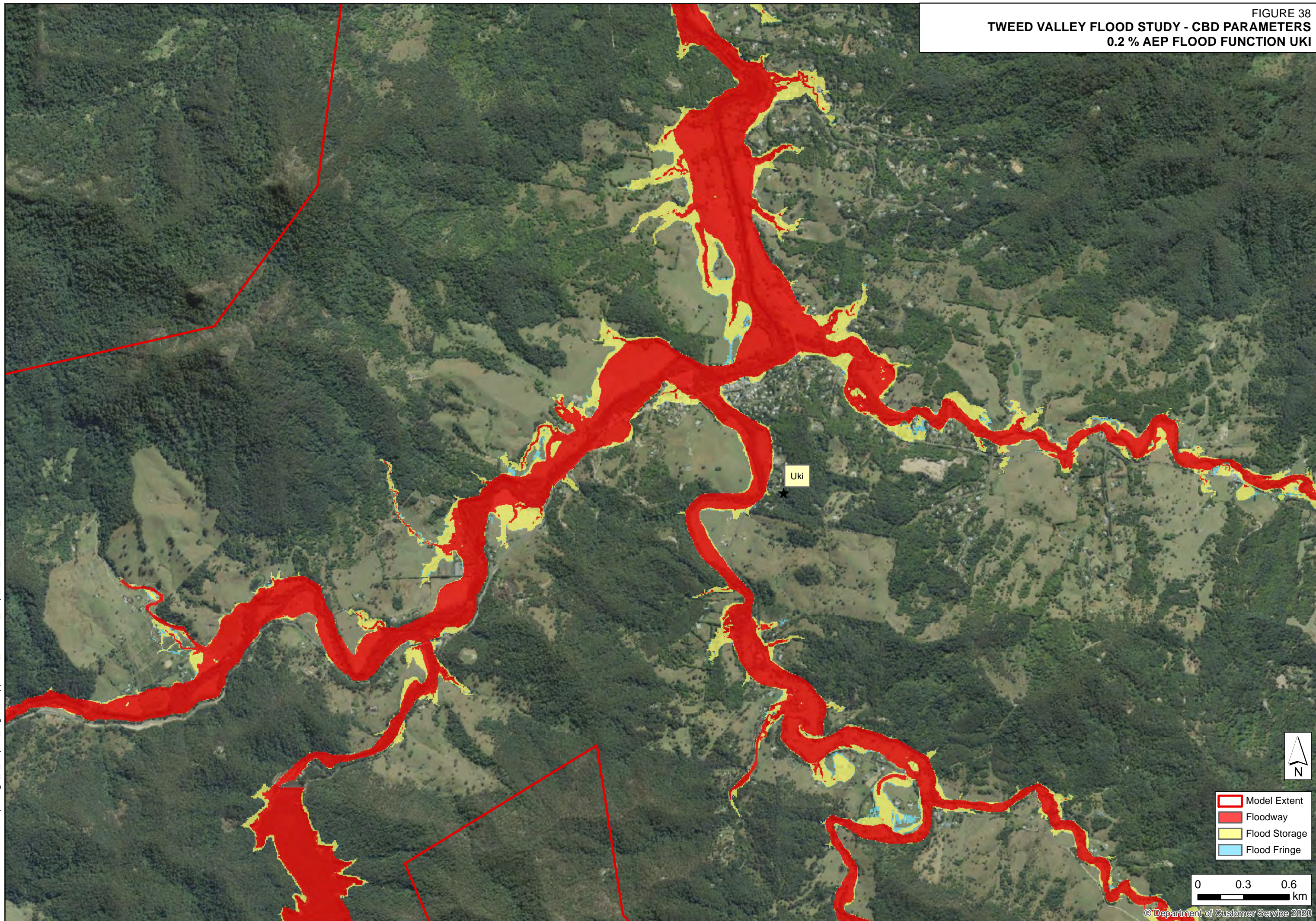
J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG36_0.2p_Flood_Function_Overview_.mxd

FIGURE 37
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION TYALGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG37_0.2p_Flood_Function_Tyalgum.mxd

FIGURE 38
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION UKI



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

0 0.3 0.6
km

FIGURE 39
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION MURWILLUMBAH

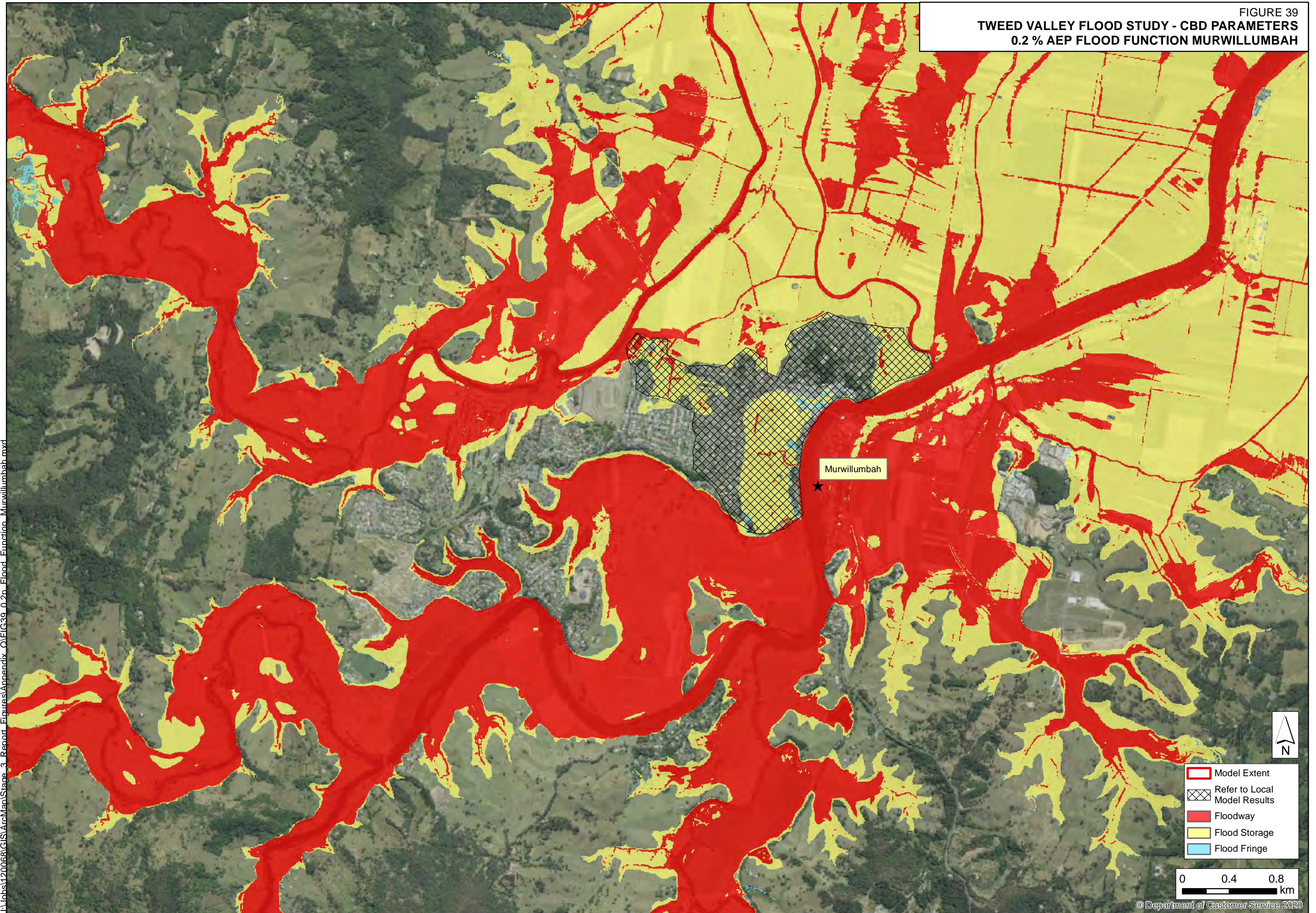


FIGURE 40
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION TUMBULGUM

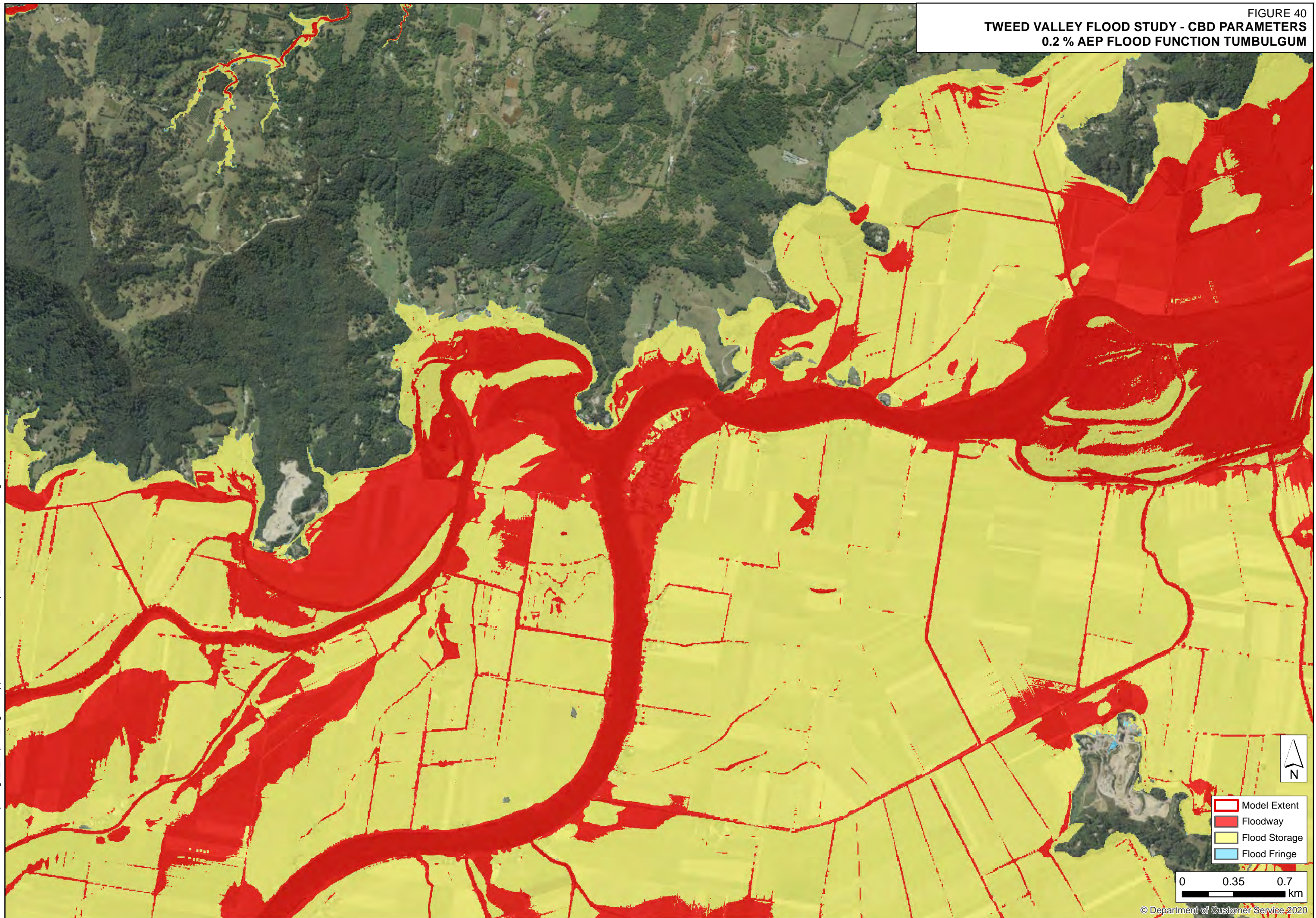
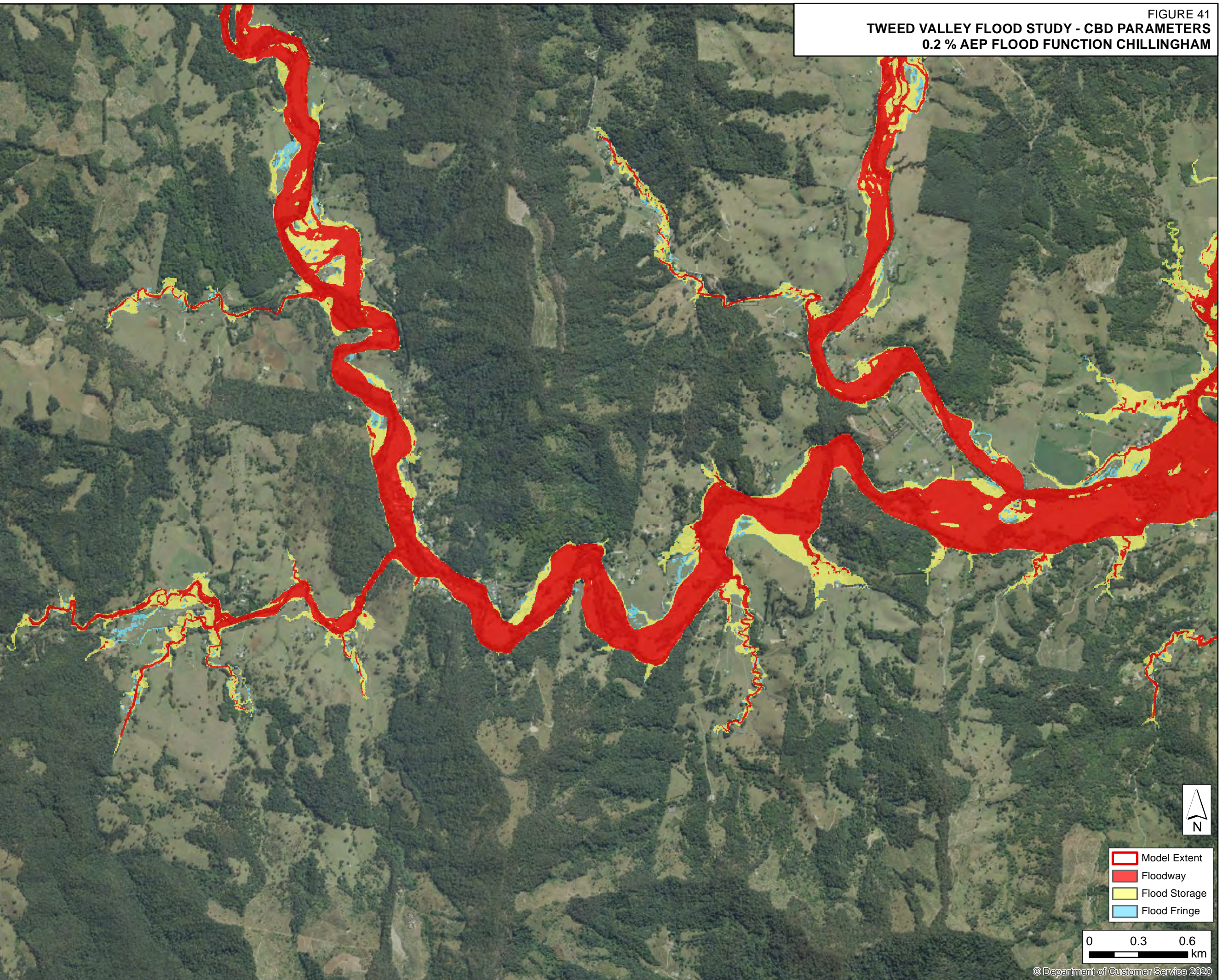


FIGURE 41
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION CHILLINGHAM



- Model Extent
- Floodway
- Flood Storage
- Flood Fringe

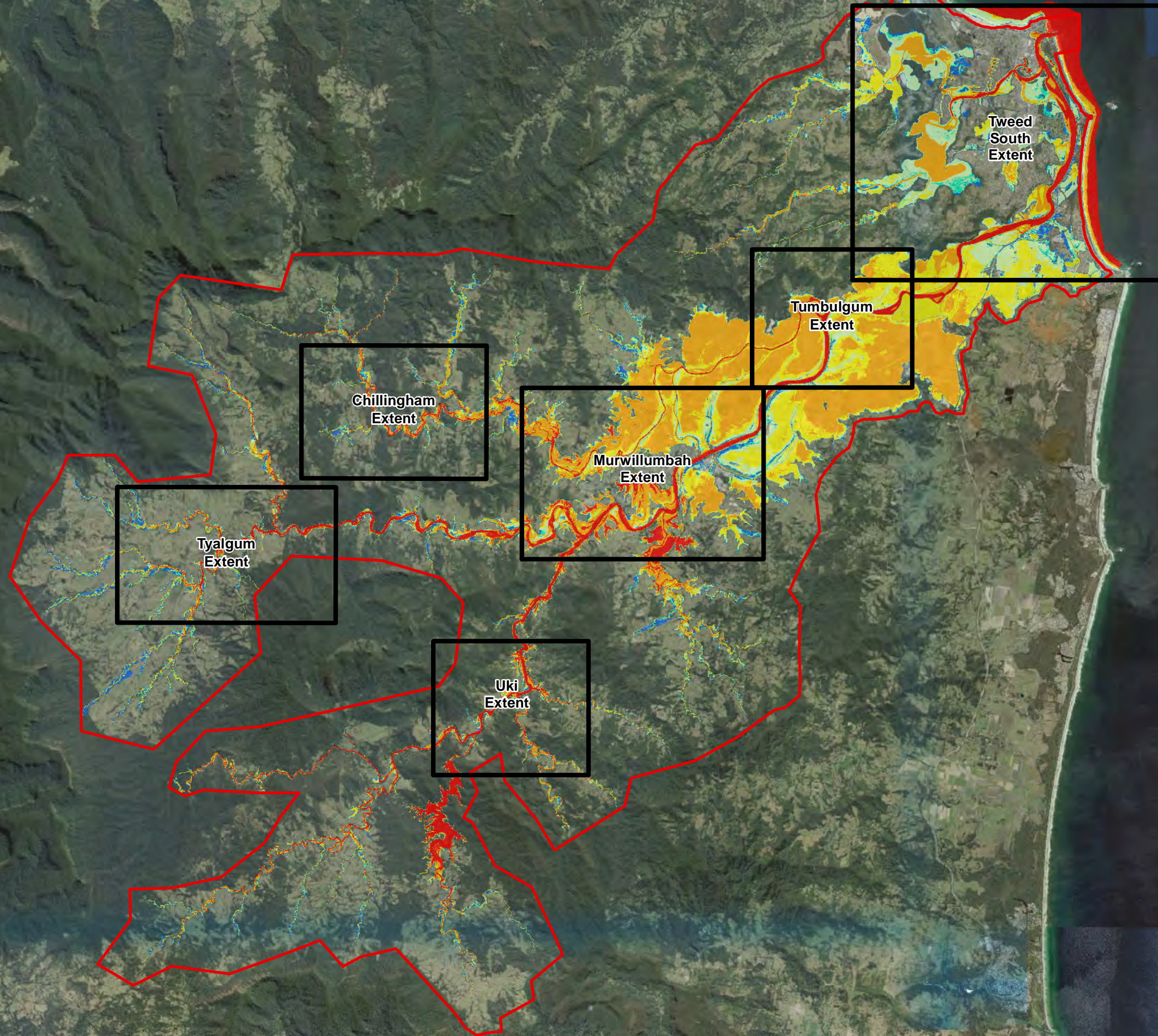
0 0.3 0.6 km

FIGURE 42
TWEED VALLEY FLOOD STUDY - CBD PARAMETERS
0.2 % AEP FLOOD FUNCTION TWEED SOUTH



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG42_0.2p_Flood_Function_Tweed_South.mxd

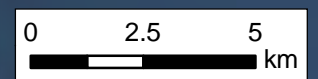
FIGURE 43
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD OVERVIEW



Model Extent

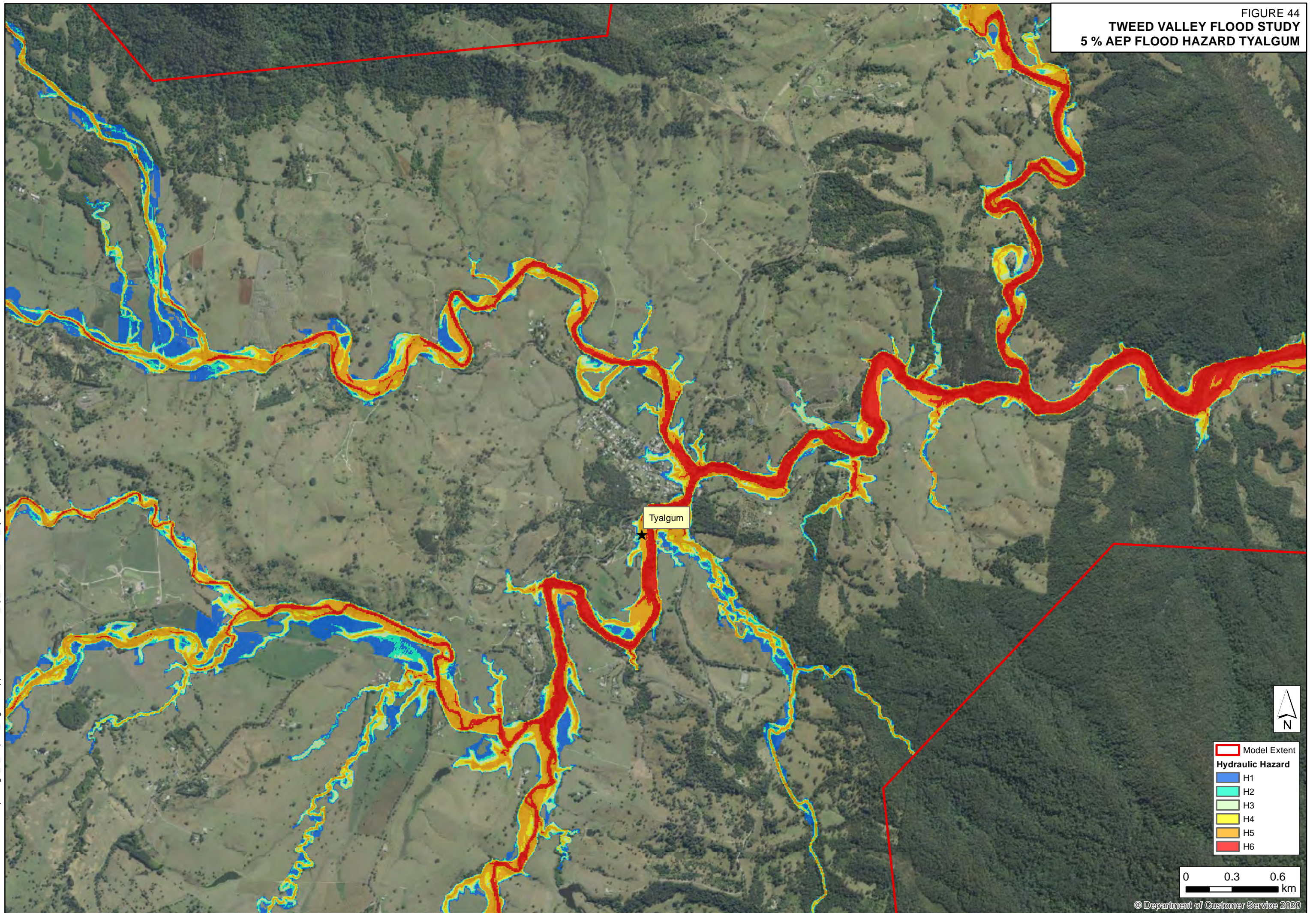
Hydraulic Hazard

- H1
- H2
- H3
- H4
- H5
- H6



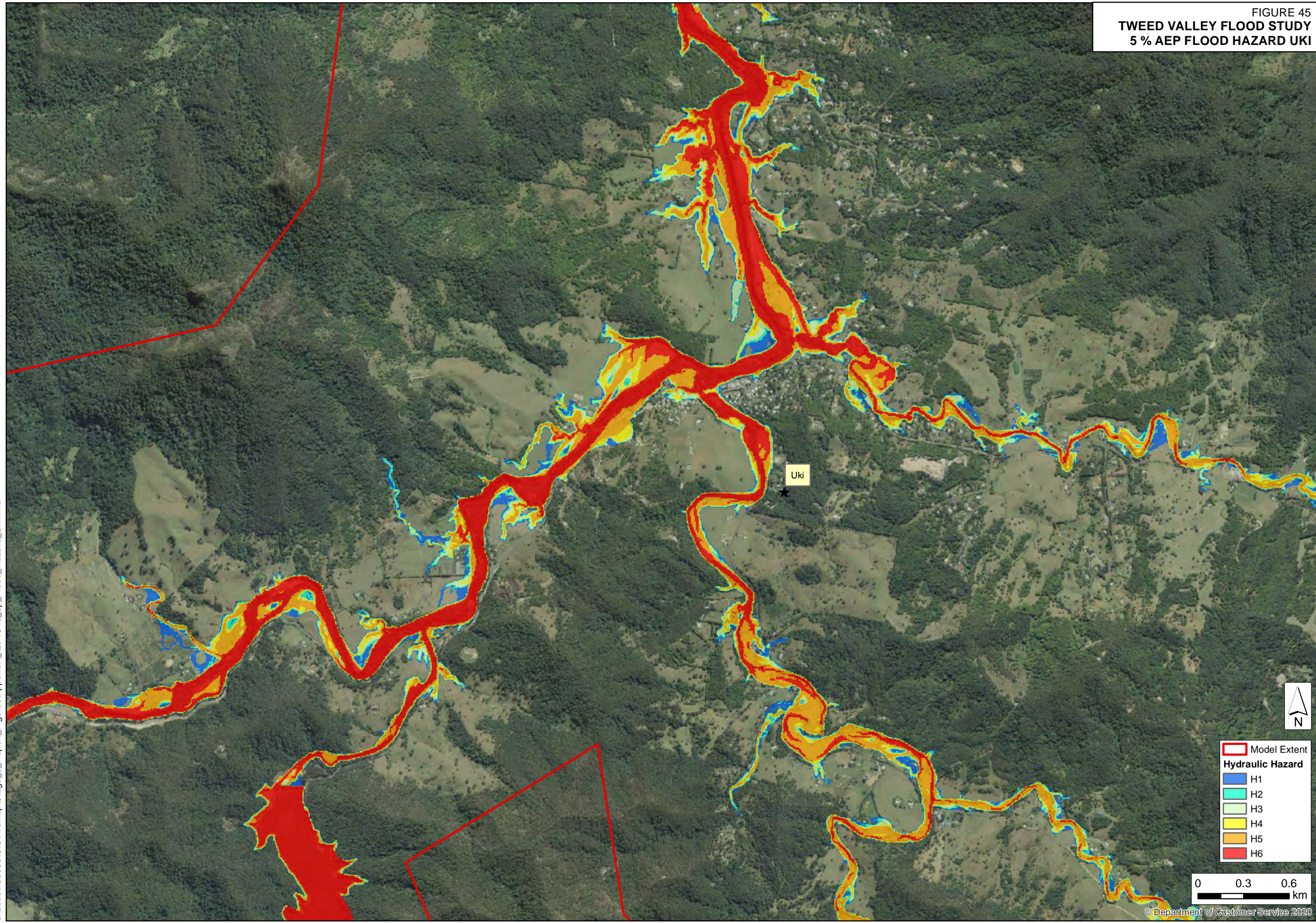
J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG43_5p_Flood_Hazard_Overview_.mxd

FIGURE 44
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD TYALGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG44_5p_Flood_Hazard_Tyalgum.mxd

FIGURE 45
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD UKI



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG45_5p_Flood_Hazard_Uki.mxd

FIGURE 46
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD MURWILLUMBAH

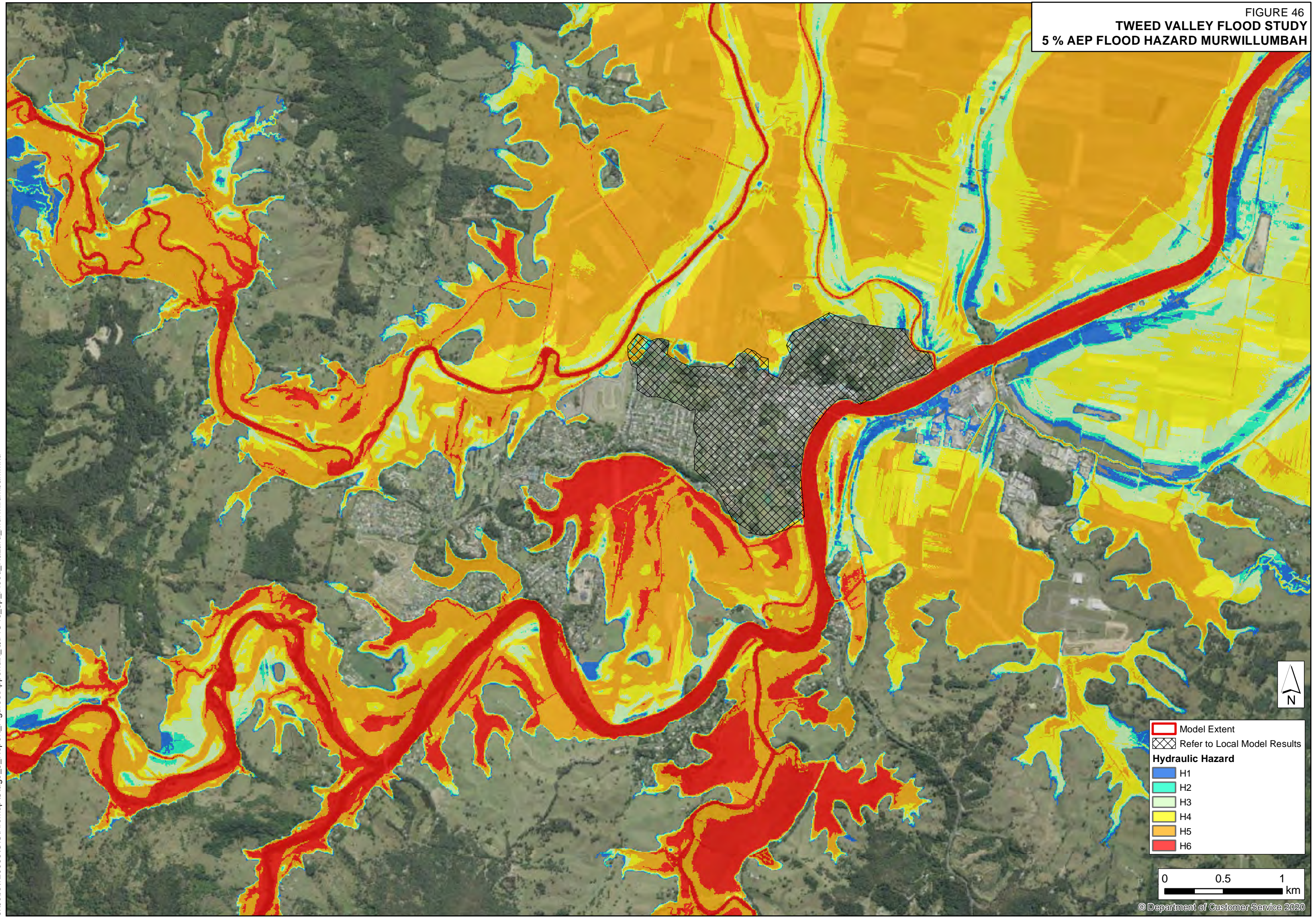
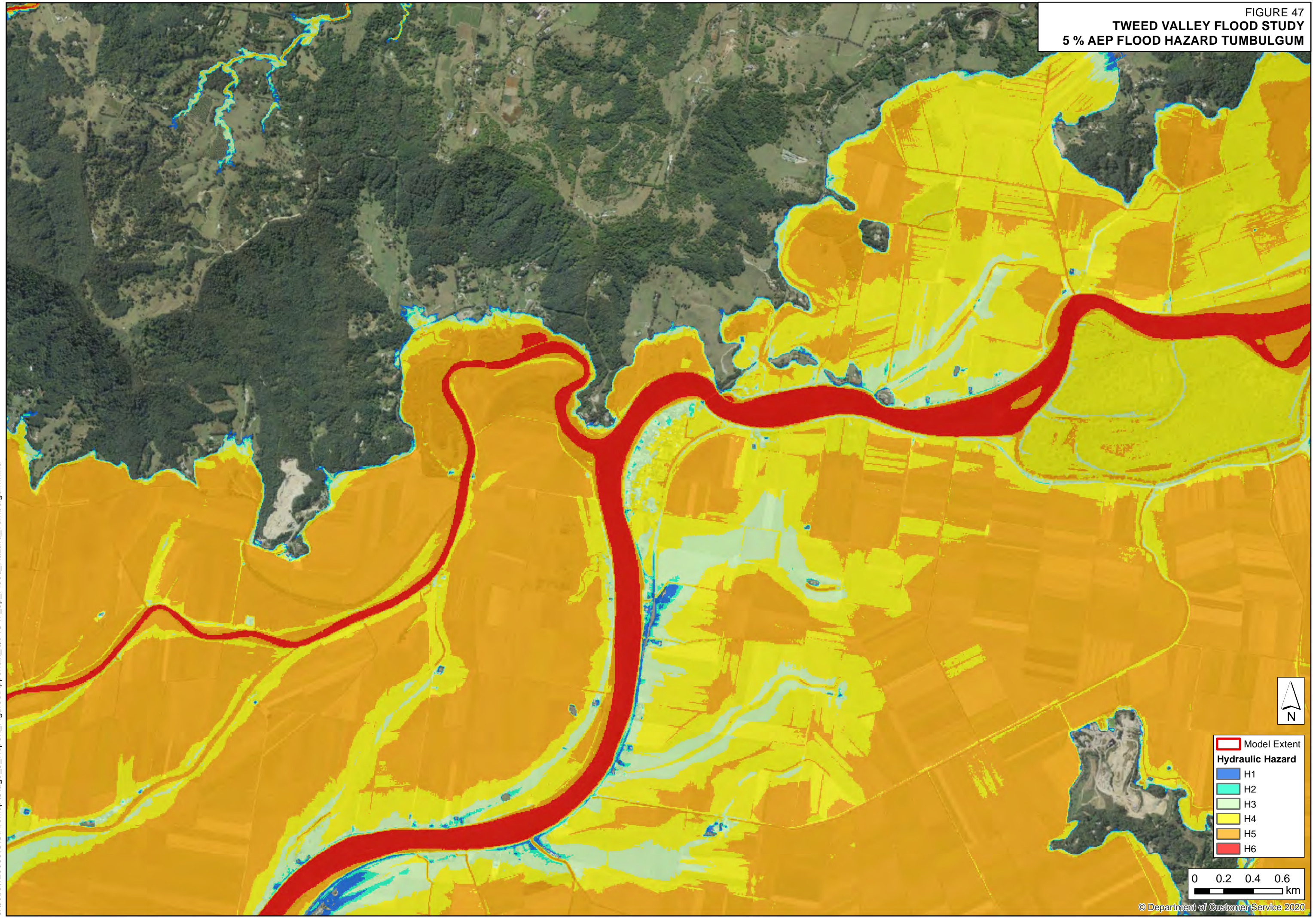


FIGURE 47
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD TUMBULGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG47_5p_Flood_Hazard_Tumbulgum.mxd

FIGURE 48
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD CHILLINGHAM

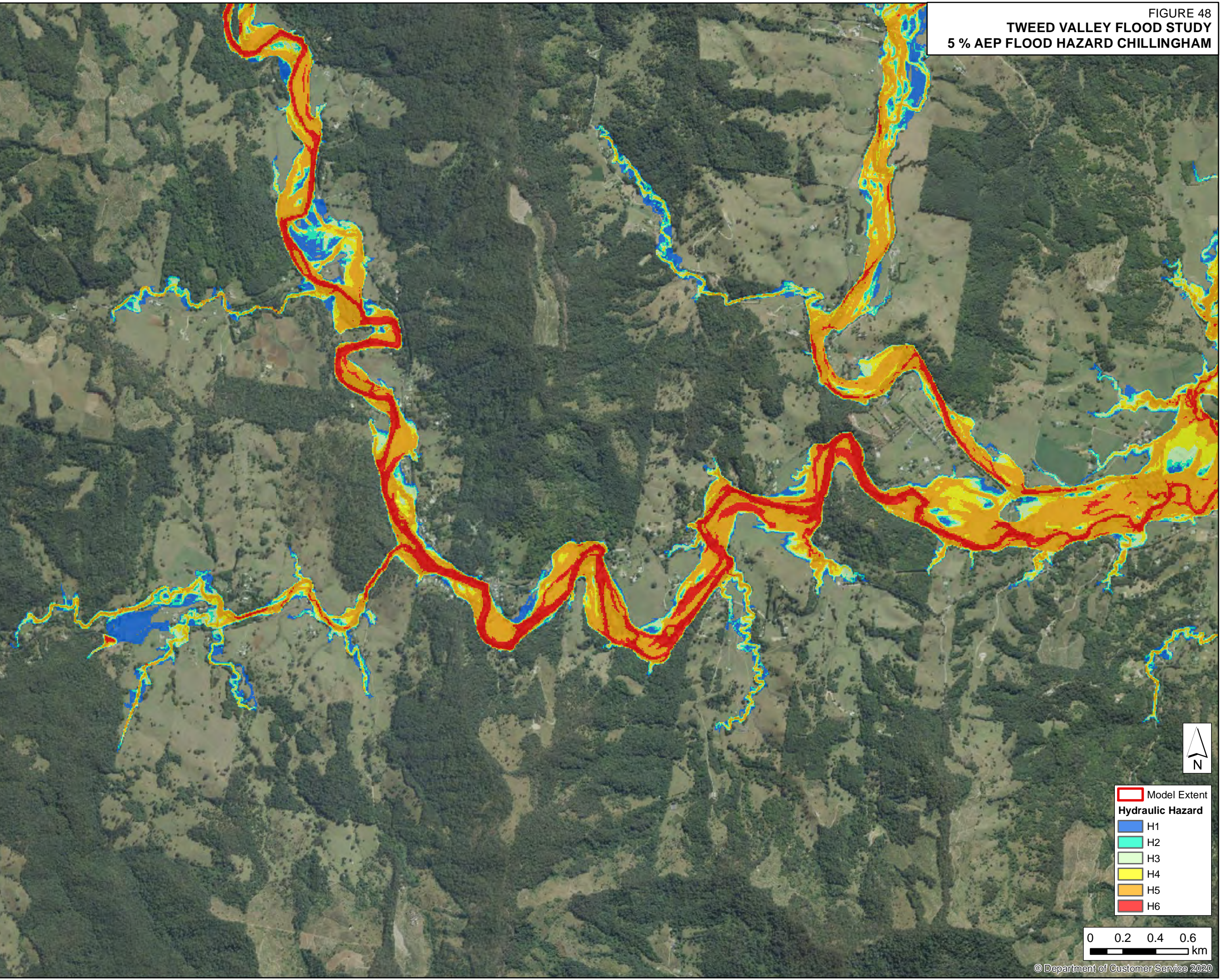
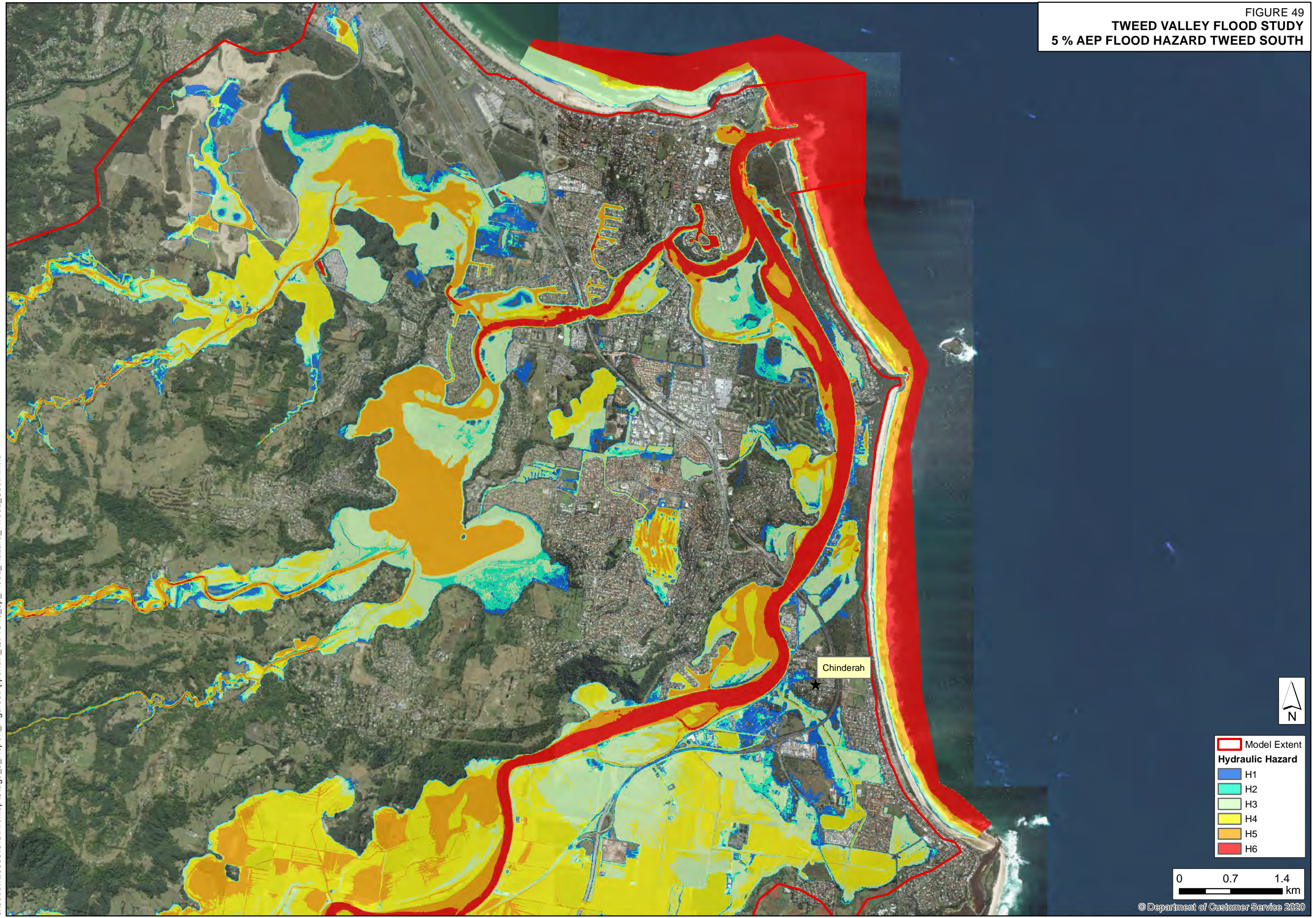
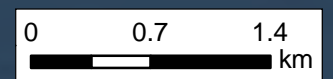


FIGURE 49
TWEED VALLEY FLOOD STUDY
5 % AEP FLOOD HAZARD TWEED SOUTH

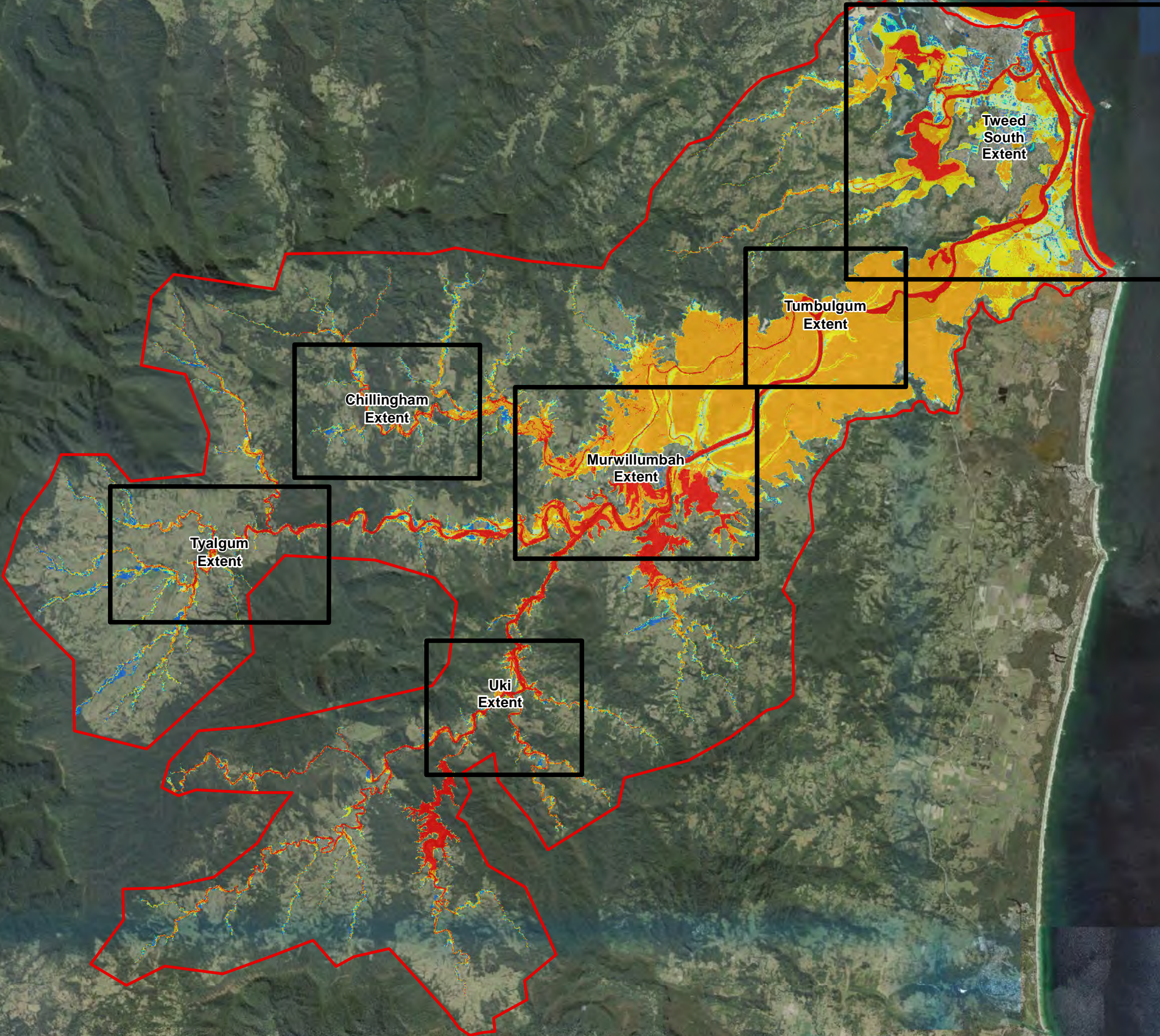


- Model Extent
- Hydraulic Hazard
 - H1
 - H2
 - H3
 - H4
 - H5
 - H6



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG49_5p_Flood_Hazard_Tweed_South.mxd

FIGURE 50
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD OVERVIEW



	Model Extent
Hydraulic Hazard	
	H1
	H2
	H3
	H4
	H5
	H6

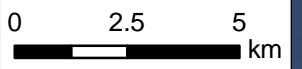
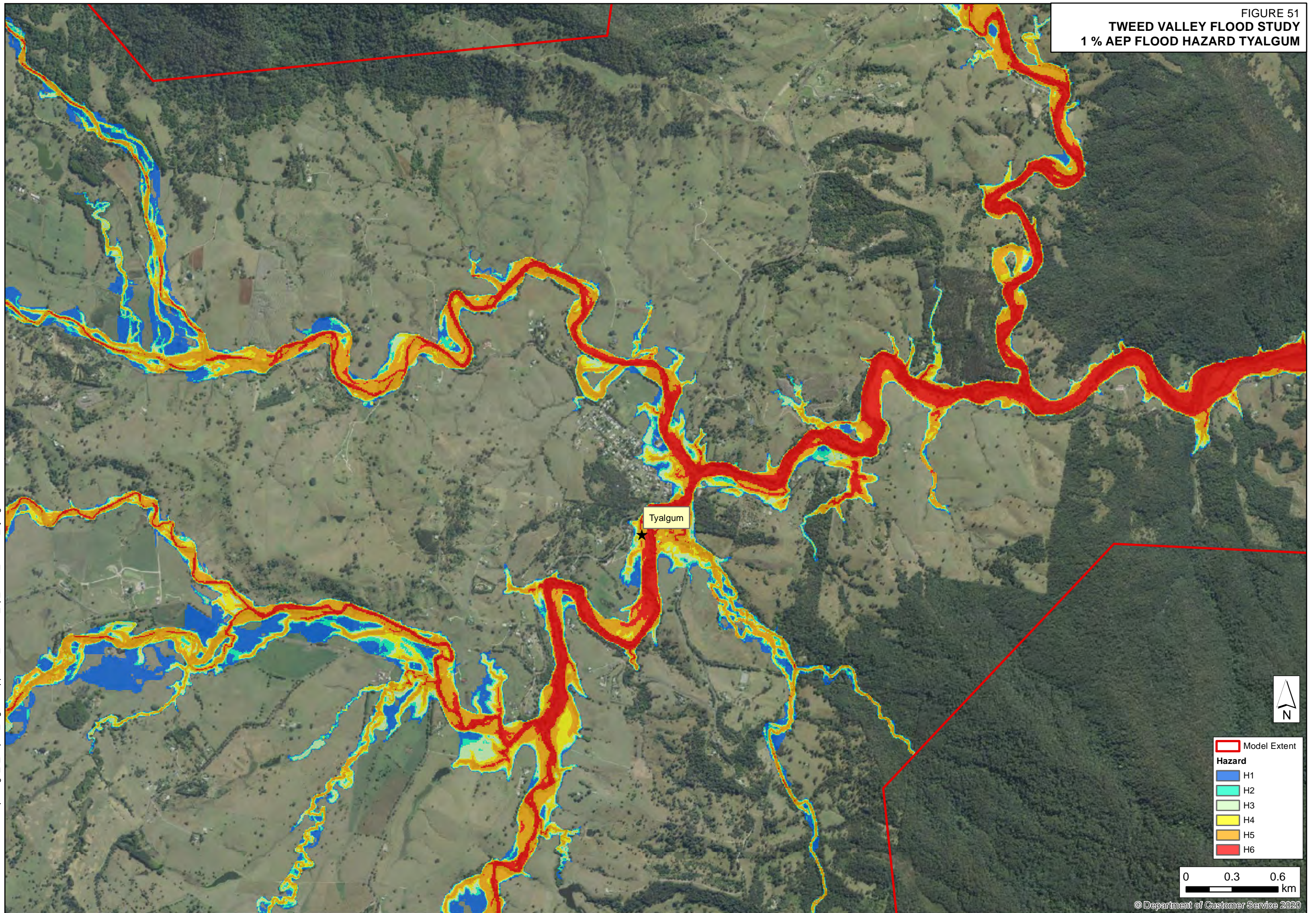
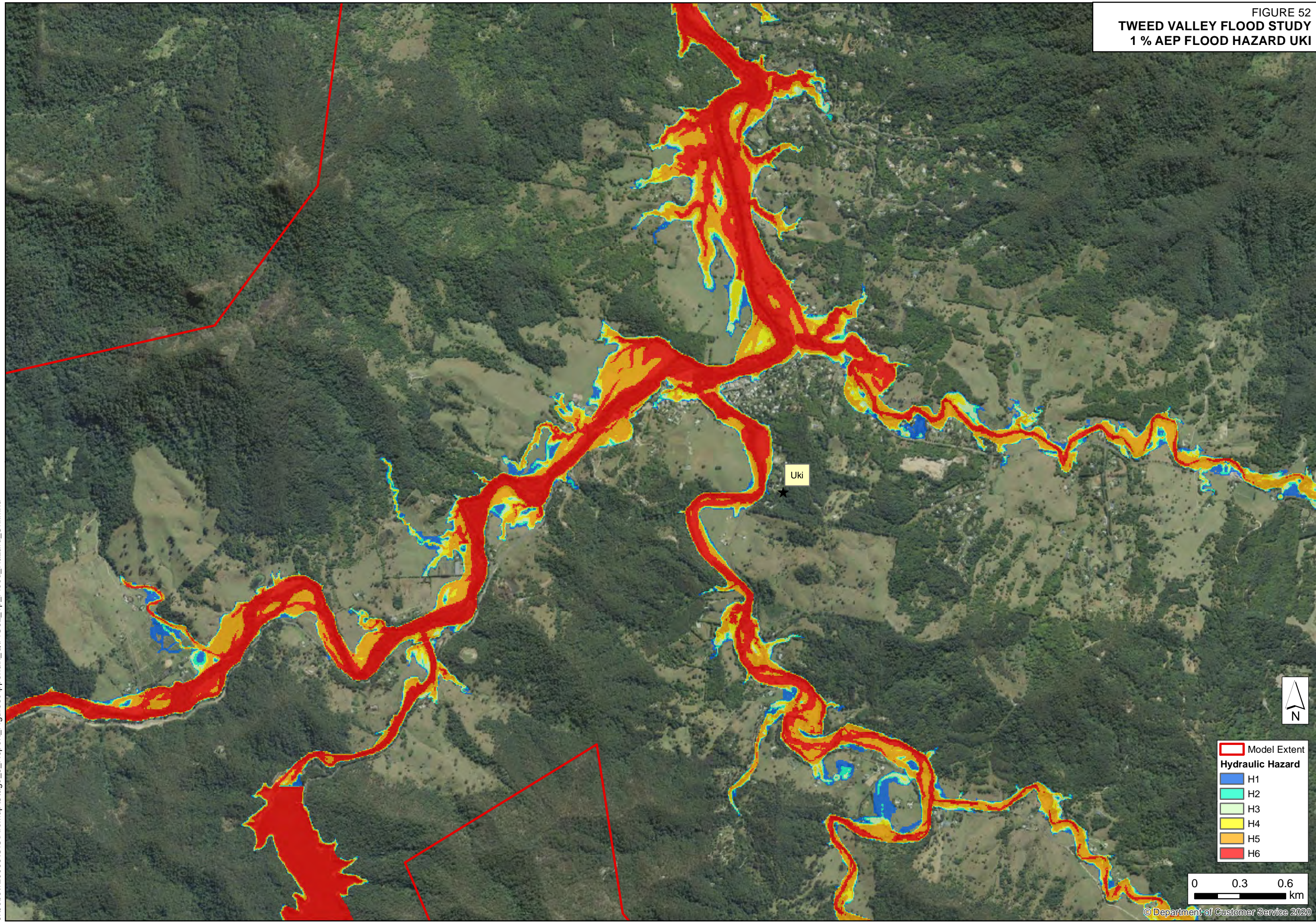


FIGURE 51
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD TYALGUM



J:\Jobs\120068\GIS\ArcMap\Stage_3_Report_Figures\Appendix_Q\FIG51_1p_Flood_Hazard_Tyalgum.mxd

FIGURE 52
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD UKI



	Model Extent
Hydraulic Hazard	
	H1
	H2
	H3
	H4
	H5
	H6

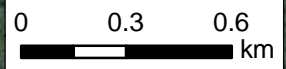


FIGURE 53
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD MURWILLUMBAH

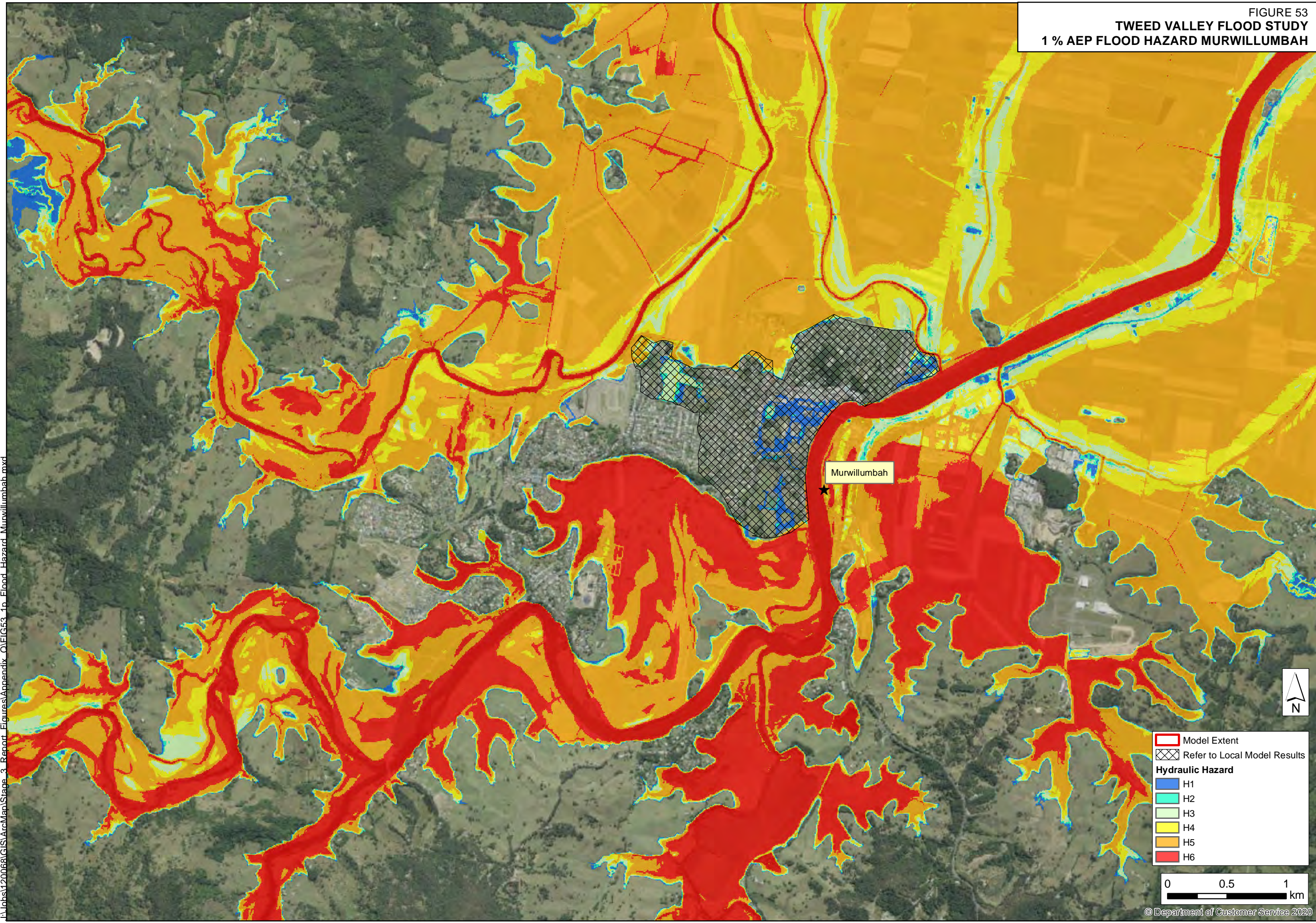
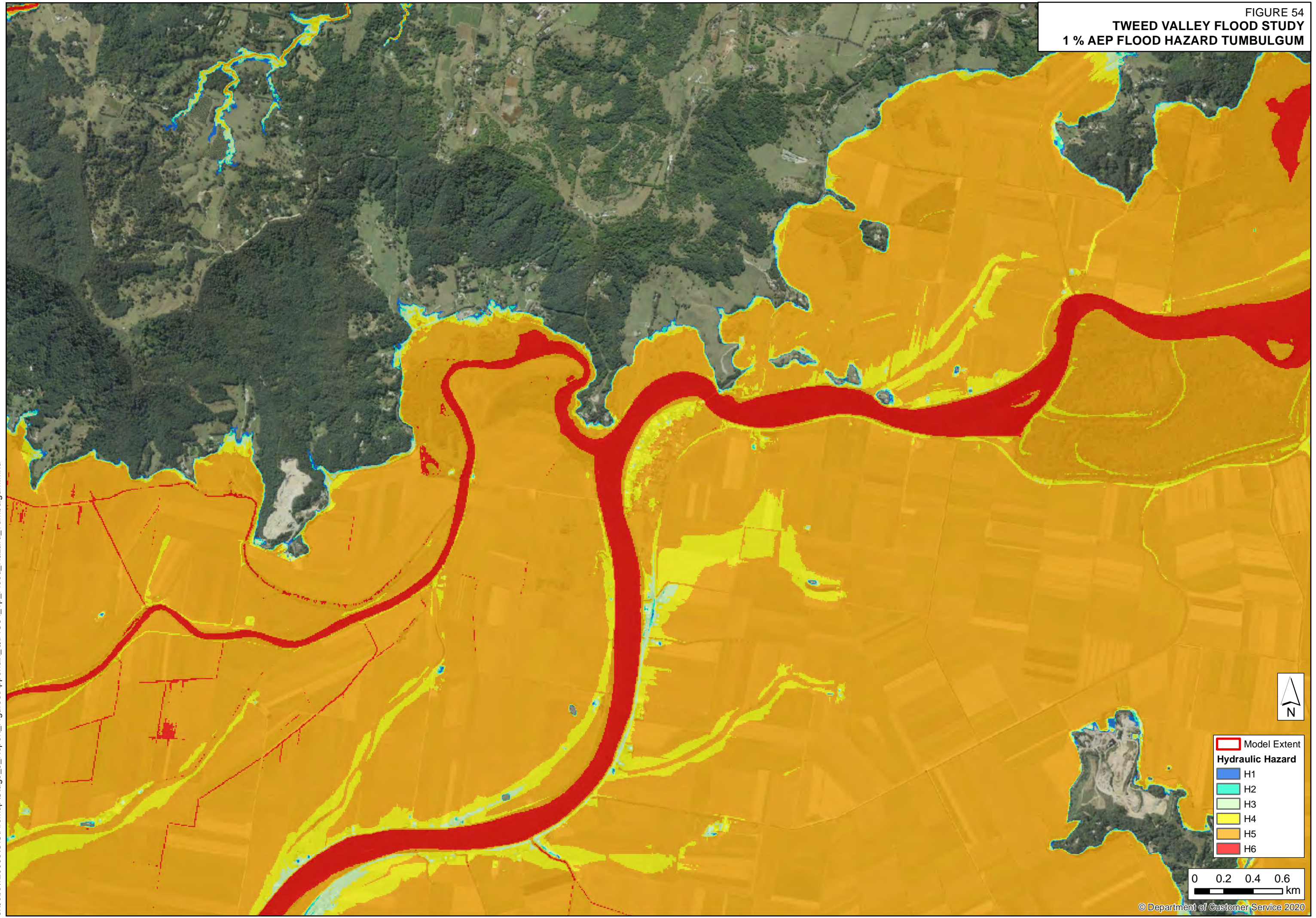
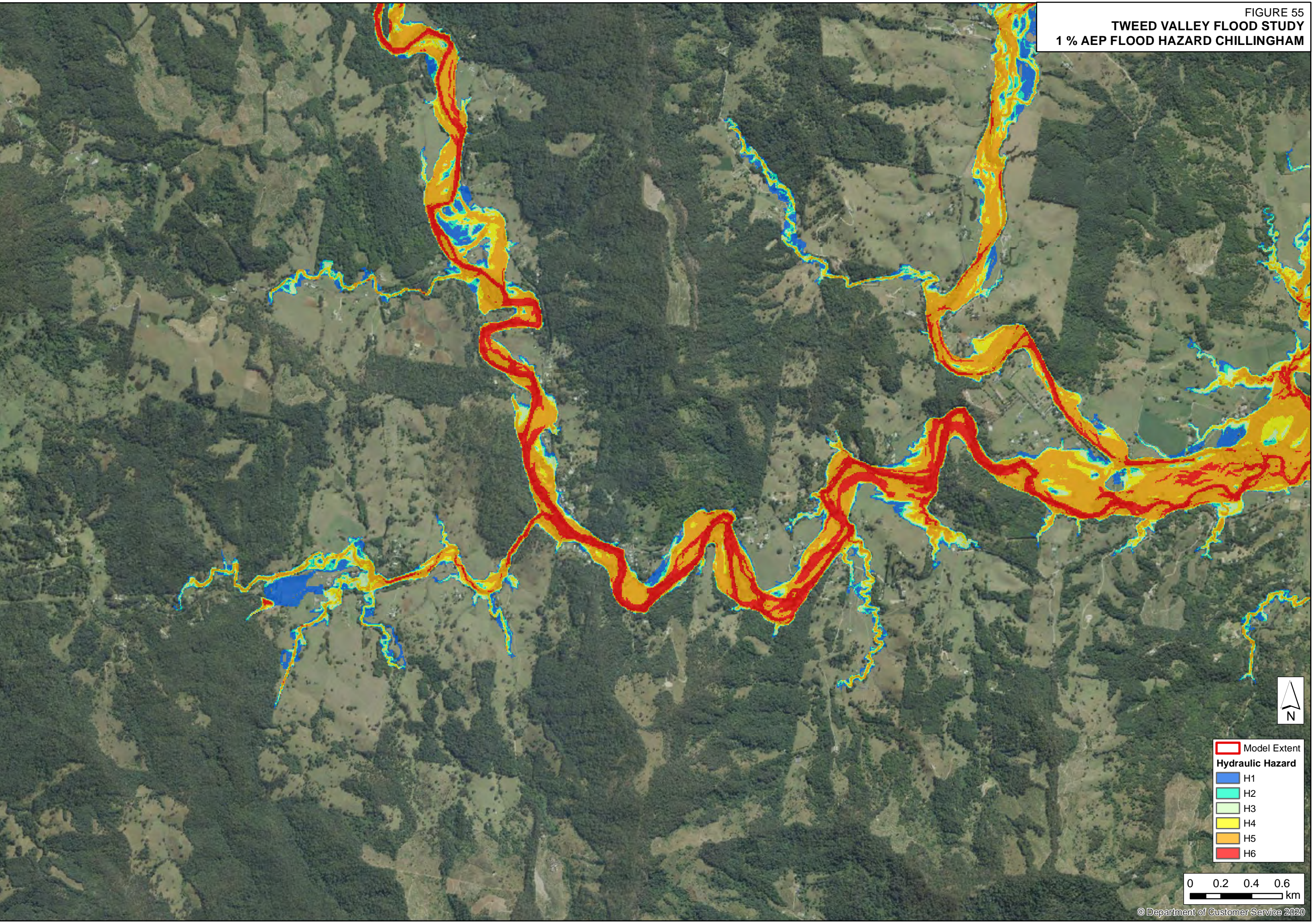


FIGURE 54
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD TUMBULGUM



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FIGURE 55
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD CHILLINGHAM



- Model Extent
- Hydraulic Hazard**
- H1
- H2
- H3
- H4
- H5
- H6

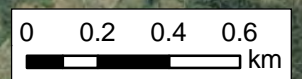
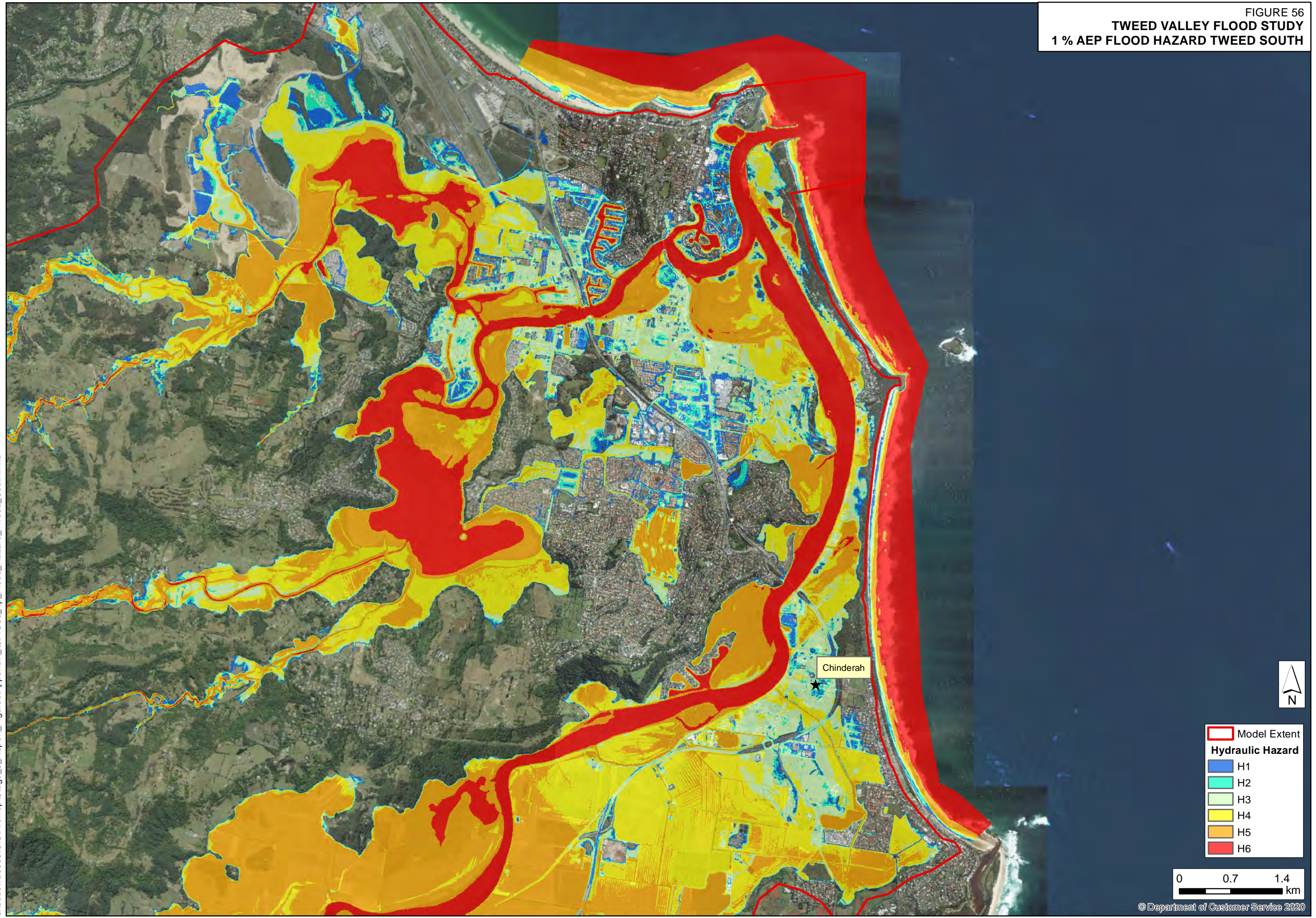
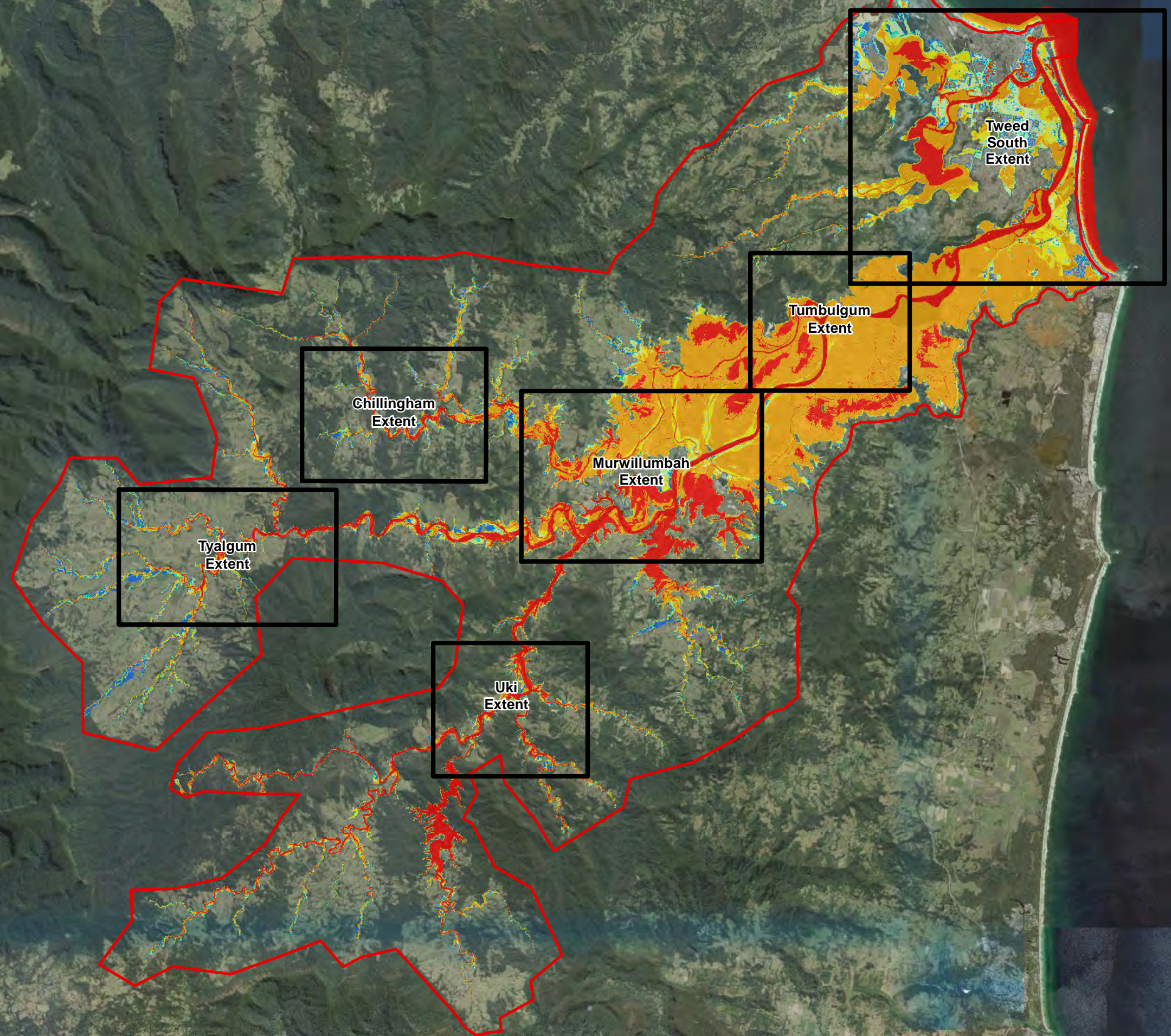


FIGURE 56
TWEED VALLEY FLOOD STUDY
1 % AEP FLOOD HAZARD TWEED SOUTH



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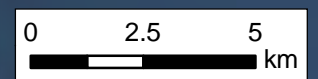
FIGURE 57
TWEED VALLEY FLOOD STUDY
0.2 AEP % FLOOD HAZARD OVERVIEW



Model Extent

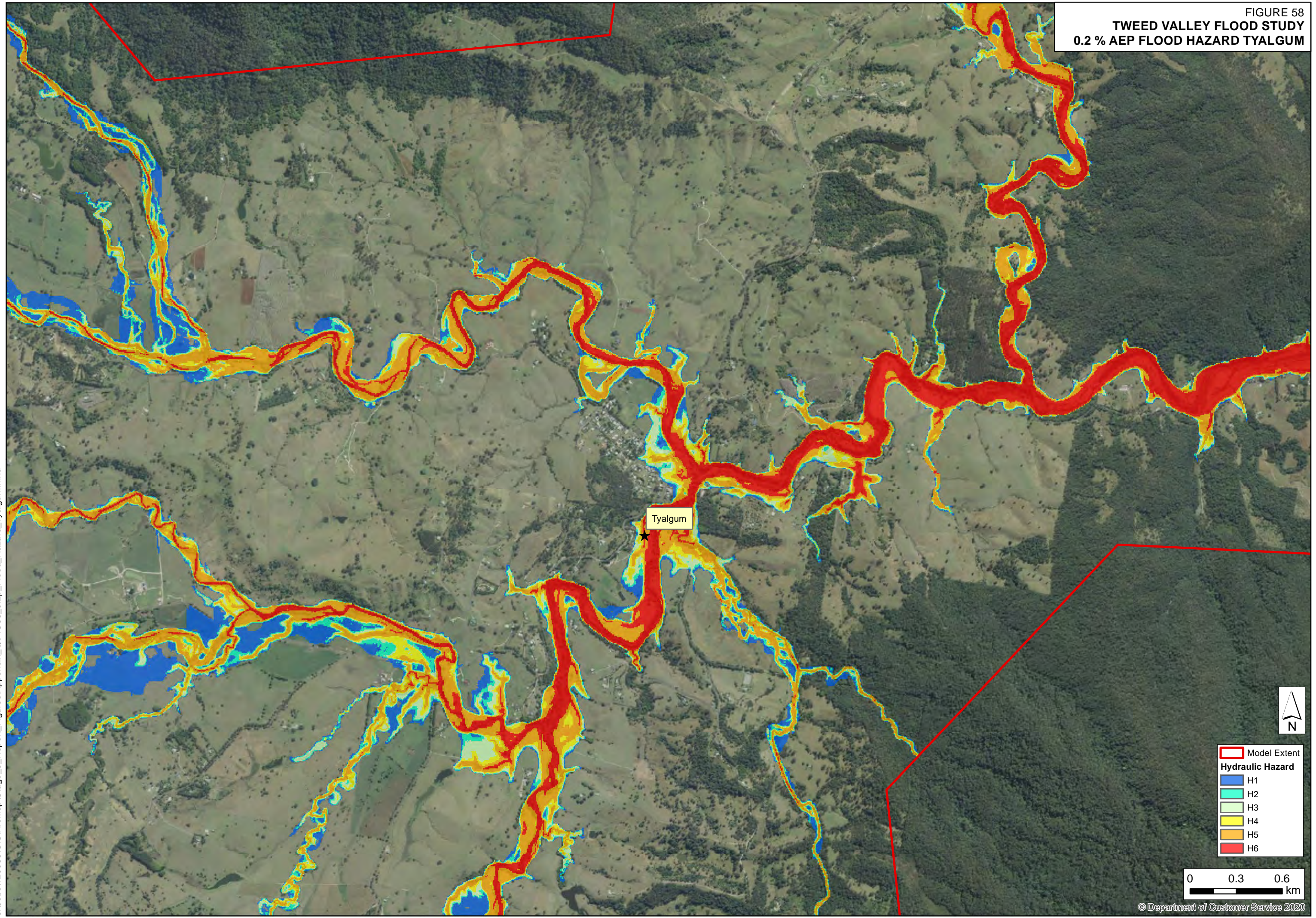
Hydraulic Hazard

- H1
- H2
- H3
- H4
- H5
- H6



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FIGURE 58
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD TYALGUM



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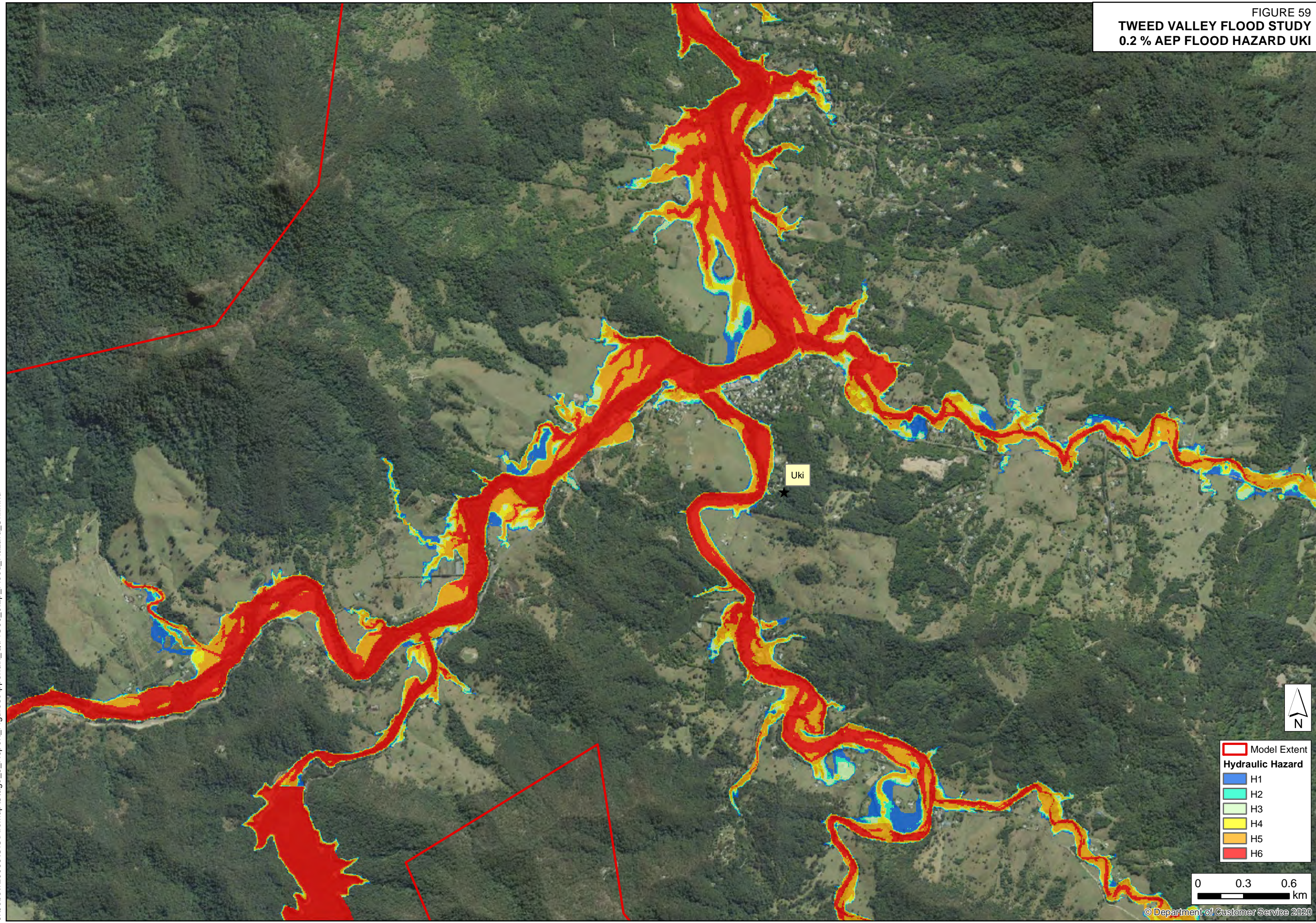
Model Extent

Hydraulic Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 0.3 0.6 km

FIGURE 59
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD UKI



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FIGURE 60
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD MURWILLUMBAH

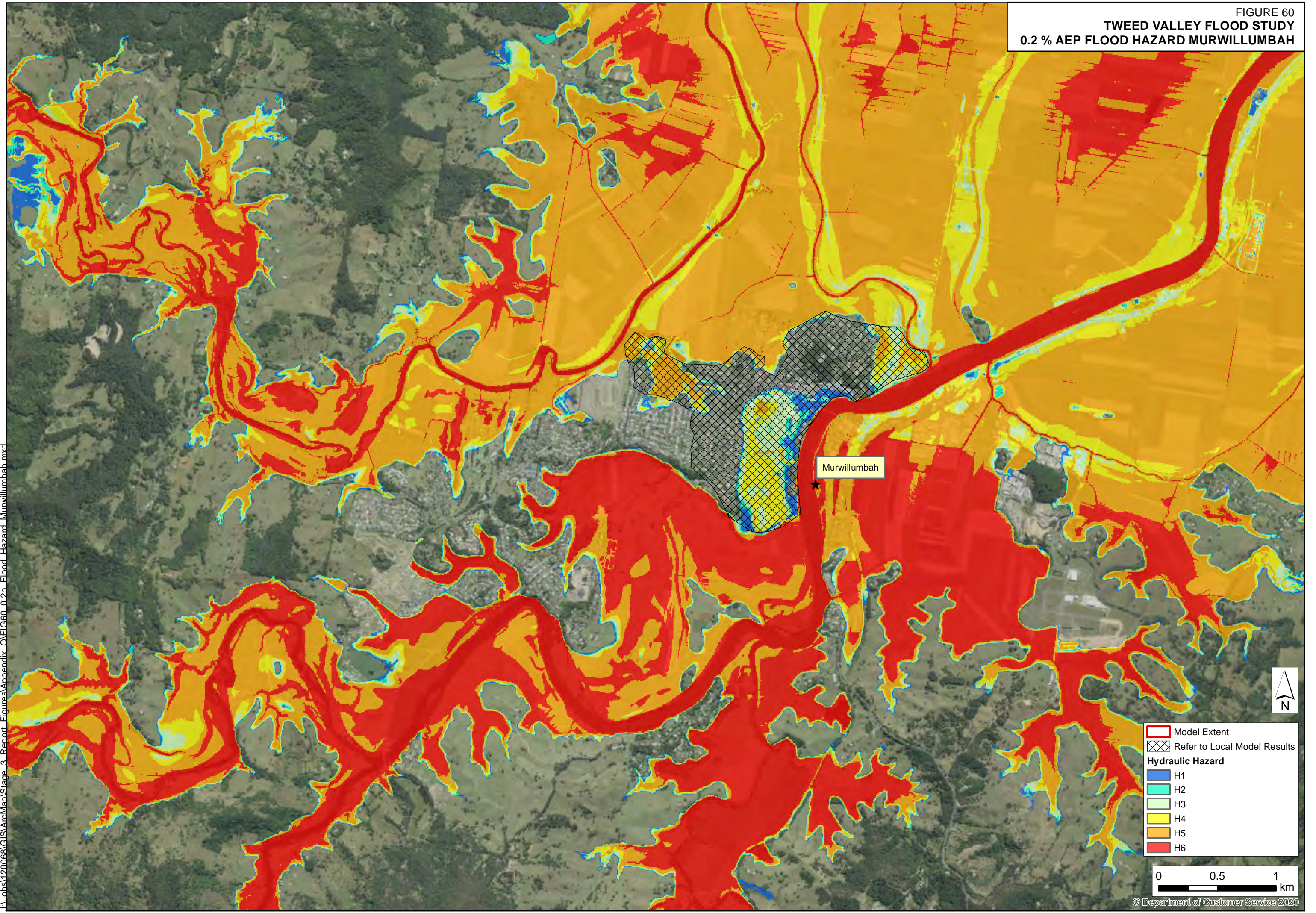
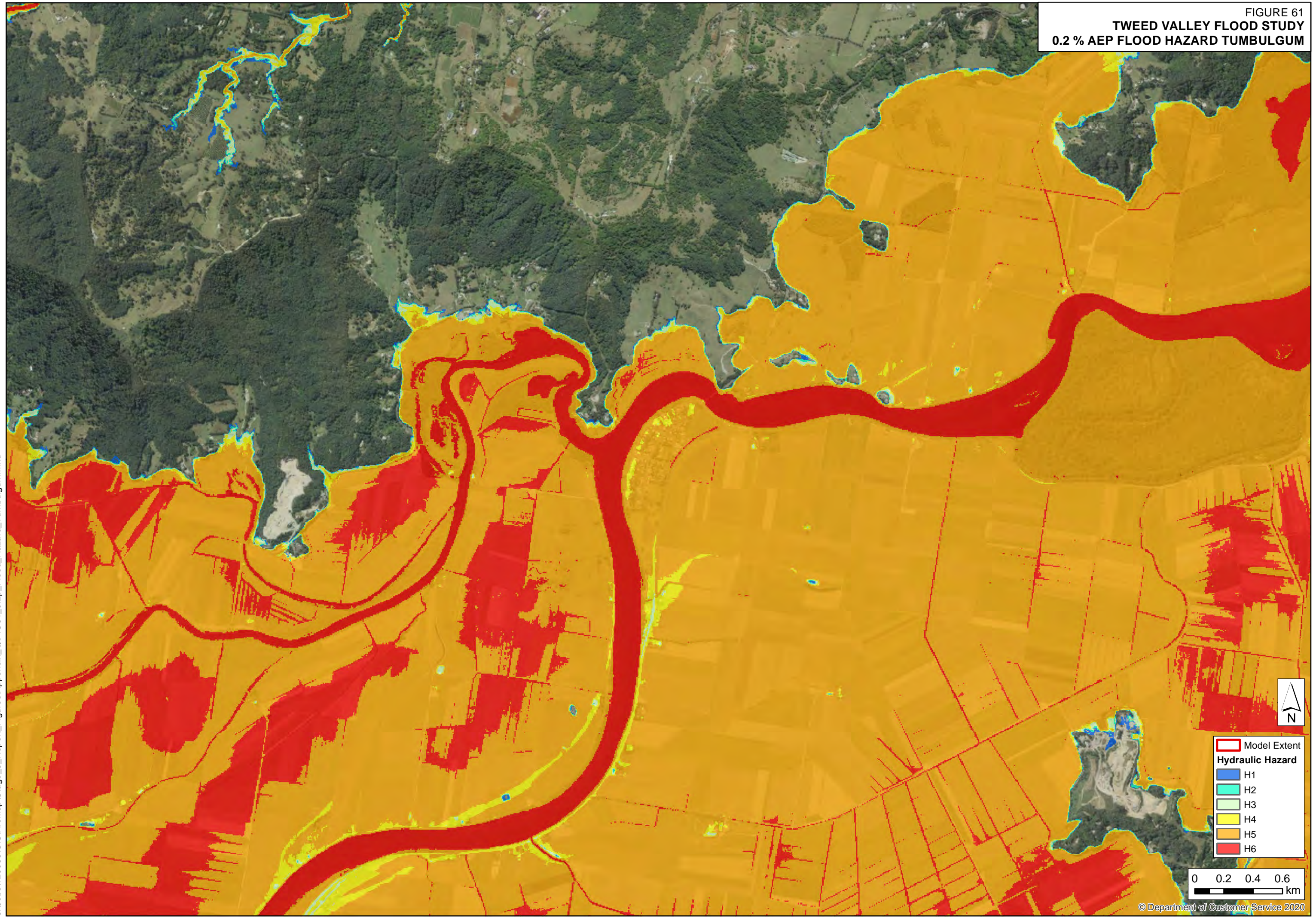


FIGURE 61
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD TUMBULGUM



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FIGURE 62
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD CHILLINGHAM

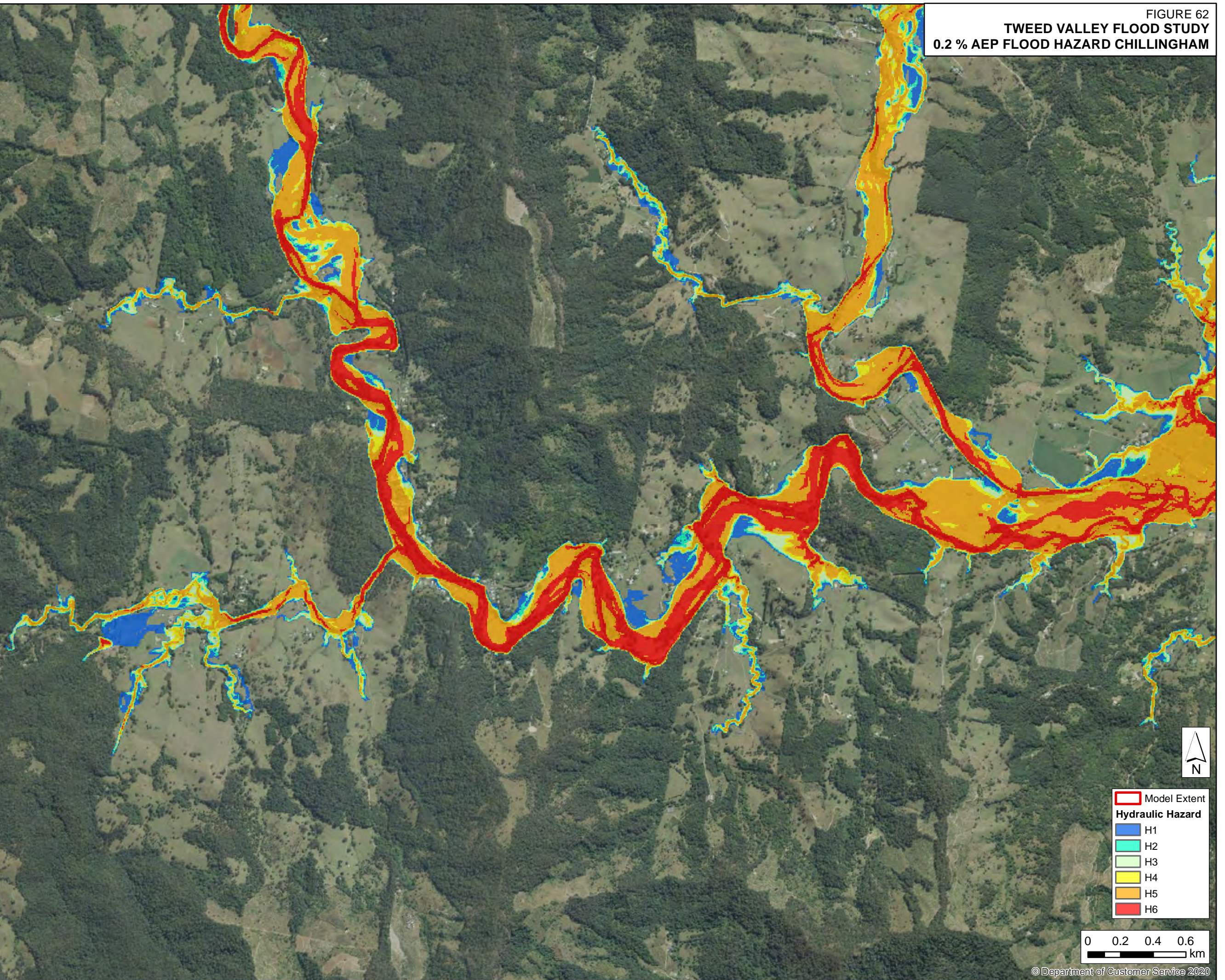
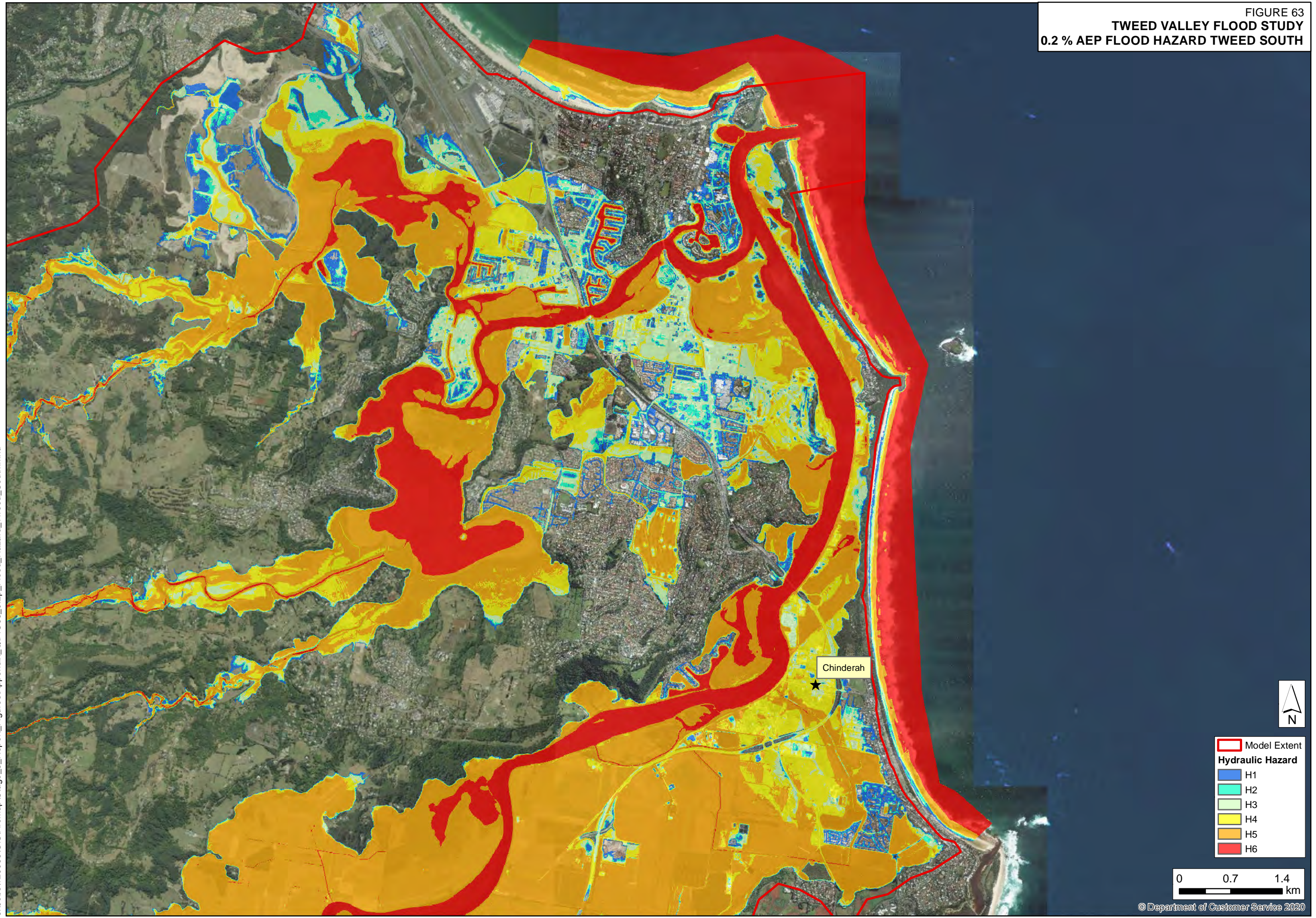


FIGURE 63
TWEED VALLEY FLOOD STUDY
0.2 % AEP FLOOD HAZARD TWEED SOUTH



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Model Extent

Hydraulic Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 0.7 1.4 km