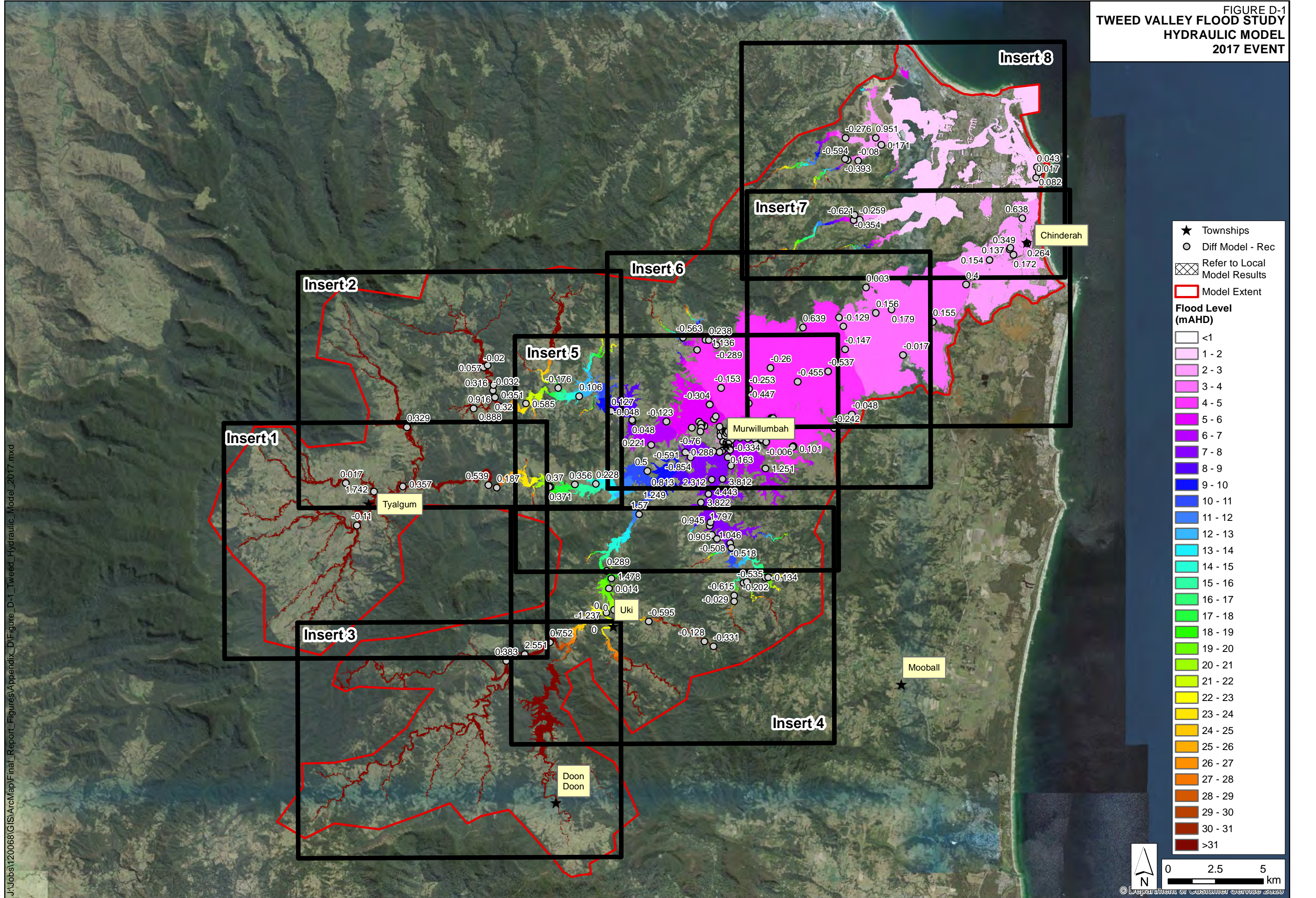




APPENDIX D. 2017 FLOOD MAPS

FIGURE D-1
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL
 2017 EVENT



- ★ Townships
- Diff Model - Rec
- ⊗ Refer to Local Model Results
- ▭ Model Extent

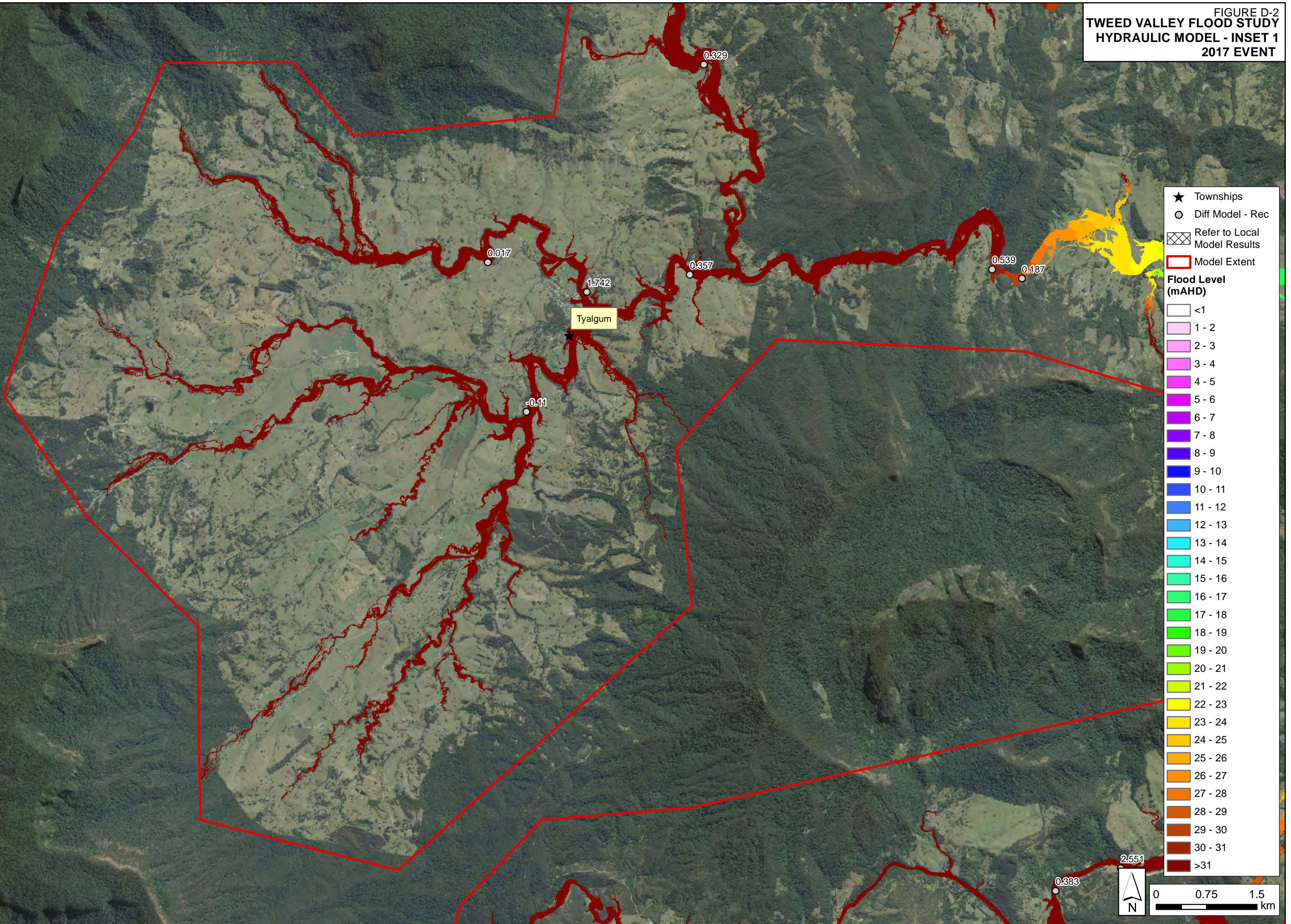
Flood Level (mAHD)

Lightest Pink	<1
Light Pink	1 - 2
Pink	2 - 3
Light Purple	3 - 4
Light Blue	4 - 5
Light Cyan	5 - 6
Light Green	6 - 7
Light Yellow	7 - 8
Yellow	8 - 9
Orange	9 - 10
Dark Orange	10 - 11
Red-Orange	11 - 12
Red	12 - 13
Dark Red	13 - 14
Black	14 - 15
Dark Blue	15 - 16
Blue	16 - 17
Light Blue	17 - 18
Very Light Blue	18 - 19
White	19 - 20
Very Light Yellow	20 - 21
Light Yellow	21 - 22
Yellow	22 - 23
Light Orange	23 - 24
Orange	24 - 25
Dark Orange	25 - 26
Red-Orange	26 - 27
Red	27 - 28
Dark Red	28 - 29
Black	29 - 30
Dark Blue	30 - 31
Blue	>31

J:\Jobs\120068\GIS\ArcMap\Final_Report_Figures\Appendix_D\Figure_D-1_Tweed_Hydraulic_Model_2017.mxd

FIGURE D-2
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 1
 2017 EVENT

J:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix D\Figure_D-2_Tweed_Hydraulic_Model_2017_inset_1.mxd

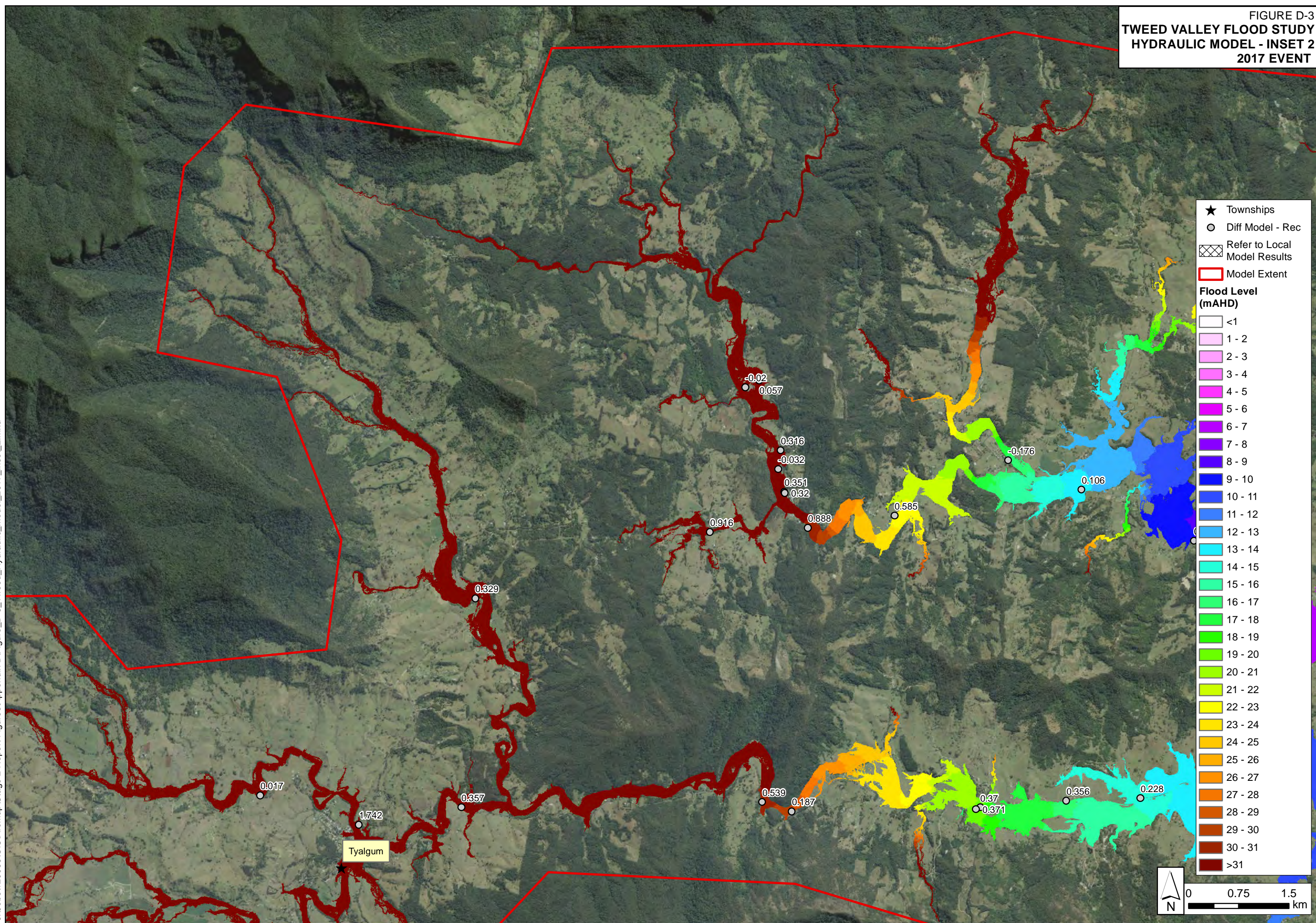


- ★ Townships
 - Diff Model - Rec
 - ⊠ Refer to Local Model Results
 - ▭ Model Extent
- Flood Level (mAHW)**
- <1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
 - 5 - 6
 - 6 - 7
 - 7 - 8
 - 8 - 9
 - 9 - 10
 - 10 - 11
 - 11 - 12
 - 12 - 13
 - 13 - 14
 - 14 - 15
 - 15 - 16
 - 16 - 17
 - 17 - 18
 - 18 - 19
 - 19 - 20
 - 20 - 21
 - 21 - 22
 - 22 - 23
 - 23 - 24
 - 24 - 25
 - 25 - 26
 - 26 - 27
 - 27 - 28
 - 28 - 29
 - 29 - 30
 - 30 - 31
 - >31



FIGURE D-3
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 2
 2017 EVENT

J:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix D\Figure_D-3_Tweed_Hydraulic_Model_2017_inset_2.mxd



- ★ Townships
- Diff Model - Rec
- ⊠ Refer to Local Model Results
- ▭ Model Extent

Flood Level (mAHD)

<1
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 11
11 - 12
12 - 13
13 - 14
14 - 15
15 - 16
16 - 17
17 - 18
18 - 19
19 - 20
20 - 21
21 - 22
22 - 23
23 - 24
24 - 25
25 - 26
26 - 27
27 - 28
28 - 29
29 - 30
30 - 31
>31



Tyalgum

0.017

1.742

0.357

0.329

0.539

0.137

0.316

-0.032

0.351

0.32

-0.02

0.057

0.916

0.888

0.585

-0.176

0.106

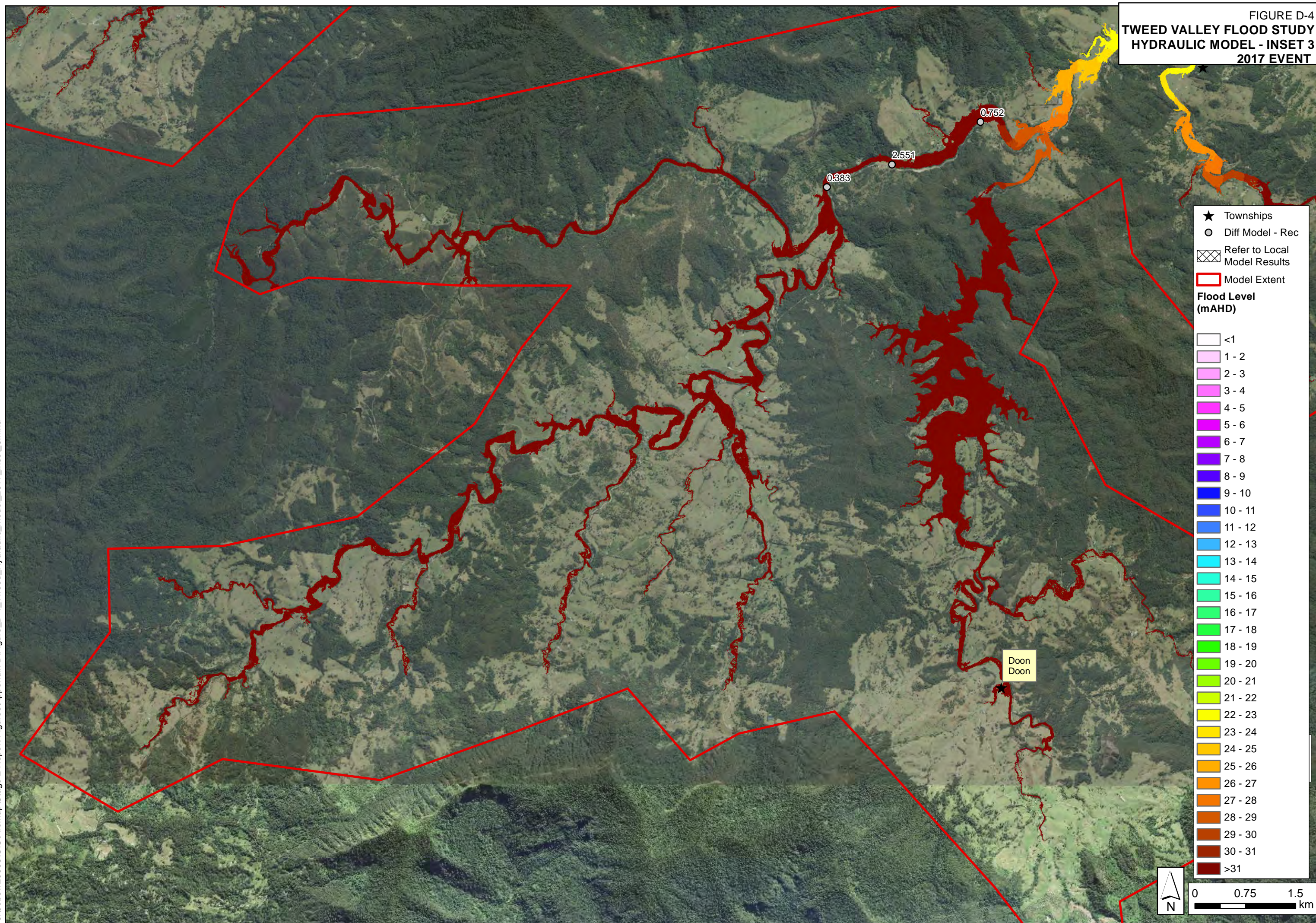
0.37

0.371

0.356

0.228

FIGURE D-4
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 3
 2017 EVENT



★ Townships
 ○ Diff Model - Rec
 ☒ Refer to Local Model Results
 [Red Outline] Model Extent

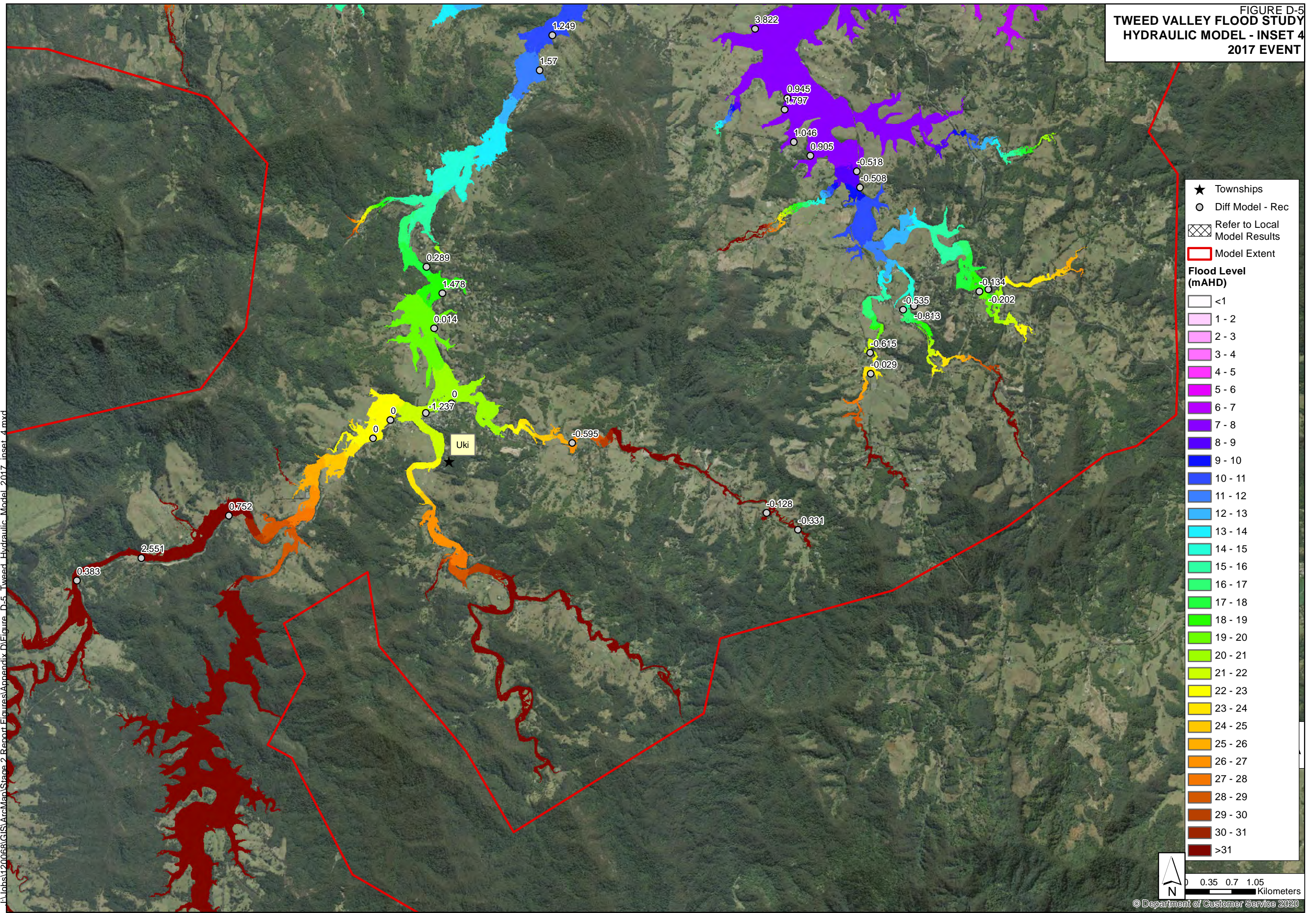
Flood Level (mAHD)

[White]	<1
[Light Pink]	1 - 2
[Pink]	2 - 3
[Light Purple]	3 - 4
[Purple]	4 - 5
[Dark Purple]	5 - 6
[Violet]	6 - 7
[Blue-Violet]	7 - 8
[Blue]	8 - 9
[Dark Blue]	9 - 10
[Medium Blue]	10 - 11
[Light Blue]	11 - 12
[Cyan]	12 - 13
[Teal]	13 - 14
[Green-Teal]	14 - 15
[Light Green]	15 - 16
[Green]	16 - 17
[Dark Green]	17 - 18
[Olive Green]	18 - 19
[Yellow-Green]	19 - 20
[Yellow]	20 - 21
[Light Yellow]	21 - 22
[Yellow-Orange]	22 - 23
[Orange]	23 - 24
[Dark Orange]	24 - 25
[Red-Orange]	25 - 26
[Red]	26 - 27
[Dark Red]	27 - 28
[Brown-Red]	28 - 29
[Brown]	29 - 30
[Dark Brown]	30 - 31
[Black]	>31



J:\Jobs\120068\GIS\ArcMap\Stage 2 Report\Figures\Appendix D\Figure_D-4_Tweed_Hydraulic_Model_2017_inset_3.mxd

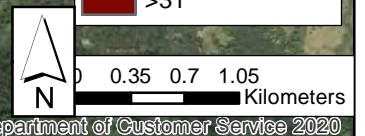
FIGURE D-5
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 4
 2017 EVENT



- ★ Townships
- Diff Model - Rec
- ⊞ Refer to Local Model Results
- ▭ Model Extent

Flood Level (mAHd)

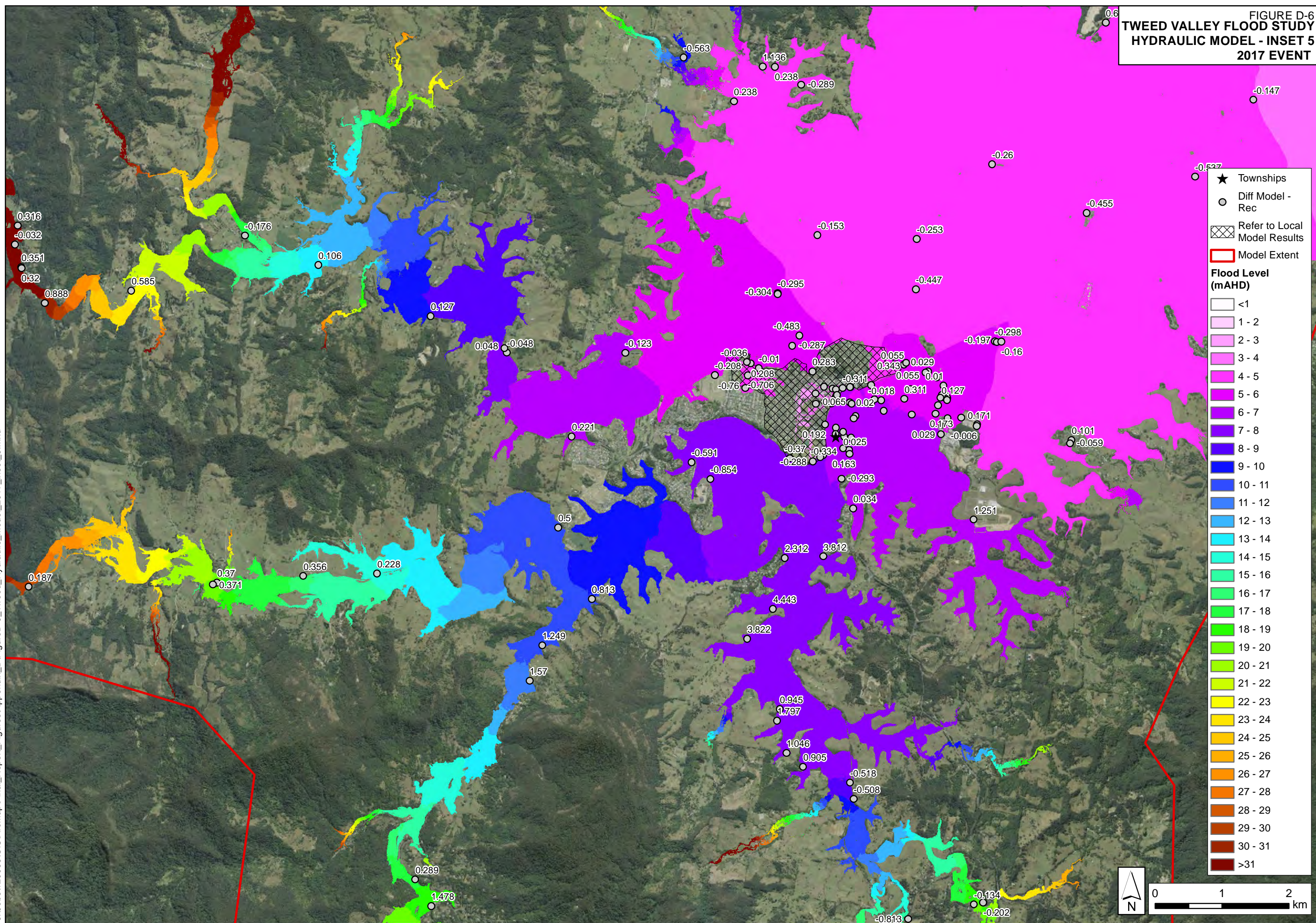
Lightest Pink	<1
Light Pink	1 - 2
Medium Light Pink	2 - 3
Medium Pink	3 - 4
Dark Pink	4 - 5
Magenta	5 - 6
Light Purple	6 - 7
Medium Purple	7 - 8
Dark Purple	8 - 9
Blue-White	9 - 10
Light Blue	10 - 11
Medium Light Blue	11 - 12
Medium Blue	12 - 13
Dark Blue	13 - 14
Cyan	14 - 15
Light Green	15 - 16
Medium Green	16 - 17
Dark Green	17 - 18
Light Yellow-Green	18 - 19
Yellow-Green	19 - 20
Yellow	20 - 21
Light Yellow	21 - 22
Yellow-Orange	22 - 23
Orange	23 - 24
Dark Orange	24 - 25
Light Red-Orange	25 - 26
Red-Orange	26 - 27
Orange-Red	27 - 28
Red	28 - 29
Dark Red	29 - 30
Very Dark Red	30 - 31
Black	>31



I:\Jobs\120068\GIS\Map\Stage 2 Report\Figures\Appendix D\Figure_D-5_Tweed_Hydraulic_Model_2017_inset_4.mxd

FIGURE D-6
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 5
 2017 EVENT

J:\Jobs\120068\GIS\ArcMap\Final_Report_Figures\Appendix_D\FigureD-6_Tweed_Hydraulic_Model_2017_inset_5.mxd



★ Townships
 ○ Diff Model - Rec
 ▨ Refer to Local Model Results
 [Red Outline] Model Extent

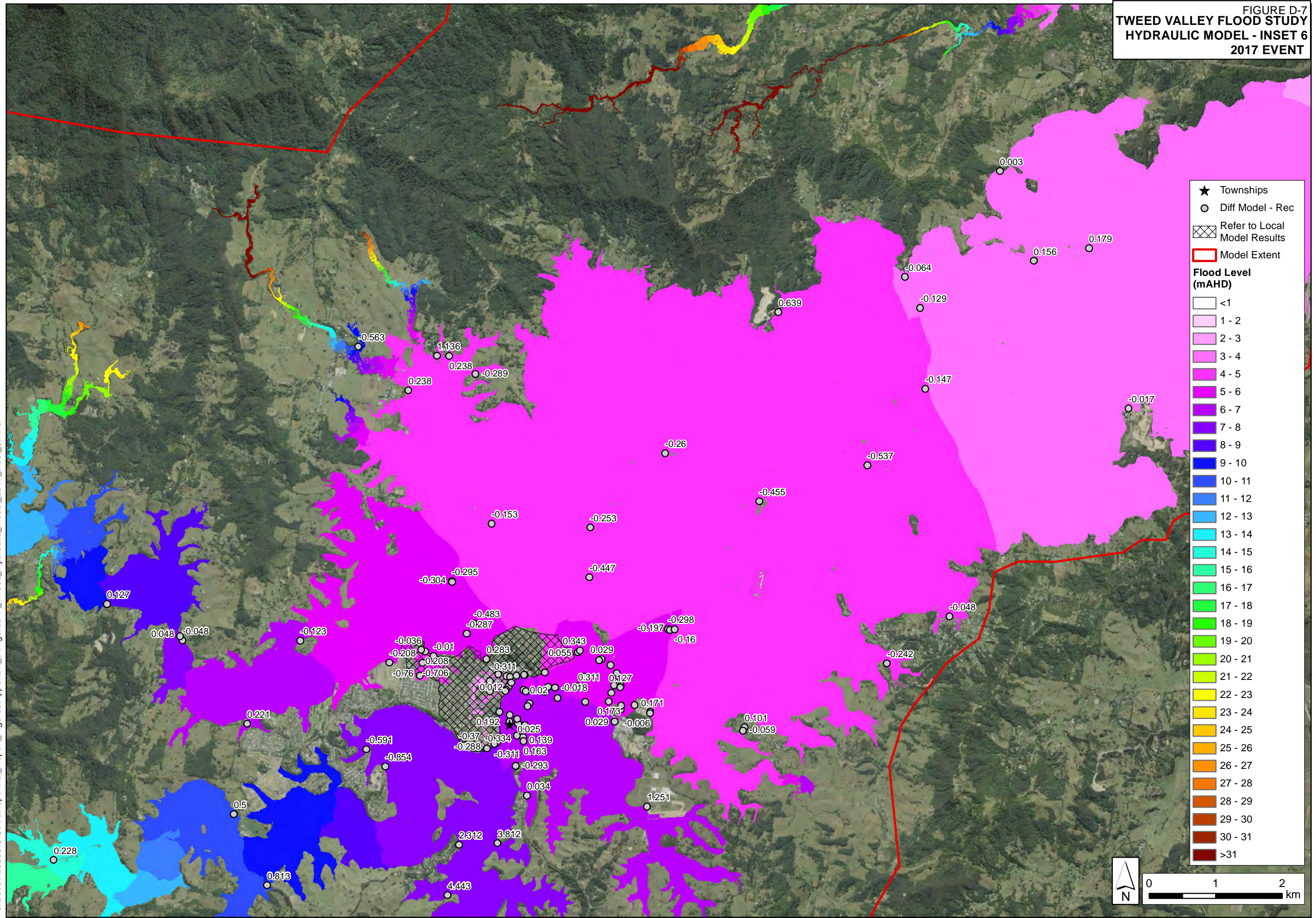
Flood Level (mAHD)

[Lightest Pink]	< 1
[Light Pink]	1 - 2
[Pink]	2 - 3
[Light Magenta]	3 - 4
[Magenta]	4 - 5
[Purple-Magenta]	5 - 6
[Purple]	6 - 7
[Dark Purple]	7 - 8
[Blue-Purple]	8 - 9
[Blue]	9 - 10
[Dark Blue]	10 - 11
[Medium Blue]	11 - 12
[Light Blue]	12 - 13
[Cyan]	13 - 14
[Light Cyan]	14 - 15
[Light Green]	15 - 16
[Green]	16 - 17
[Light Green]	17 - 18
[Yellow-Green]	18 - 19
[Yellow]	19 - 20
[Light Yellow]	20 - 21
[Yellow]	21 - 22
[Orange-Yellow]	22 - 23
[Orange]	23 - 24
[Light Orange]	24 - 25
[Orange]	25 - 26
[Dark Orange]	26 - 27
[Red-Orange]	27 - 28
[Red]	28 - 29
[Dark Red]	29 - 30
[Darkest Red]	30 - 31
[Black]	>31

N
 0 1 2 km

FIGURE D-7
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 6
 2017 EVENT

J:\Jobs\1200688\GIS\ArcMap\Final_Report_Figures\Appendix_D\FigureD-7_Tweed_Hydraulic_Model_2017_inset_6.mxd



- ★ Townships
- Diff Model - Rec
- ▨ Refer to Local Model Results
- ▭ Model Extent

Flood Level (mAHd)

Lightest Pink	<1
Light Pink	1 - 2
Lighter Pink	2 - 3
Light Pink	3 - 4
Medium Pink	4 - 5
Dark Pink	5 - 6
Dark Pink	6 - 7
Dark Purple	7 - 8
Dark Blue	8 - 9
Dark Blue	9 - 10
Blue	10 - 11
Blue	11 - 12
Light Blue	12 - 13
Light Blue	13 - 14
Cyan	14 - 15
Cyan	15 - 16
Light Green	16 - 17
Light Green	17 - 18
Light Green	18 - 19
Light Green	19 - 20
Light Green	20 - 21
Light Green	21 - 22
Light Green	22 - 23
Light Green	23 - 24
Light Green	24 - 25
Light Green	25 - 26
Light Green	26 - 27
Light Green	27 - 28
Light Green	28 - 29
Light Green	29 - 30
Light Green	30 - 31
Light Green	>31

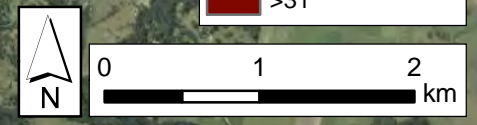
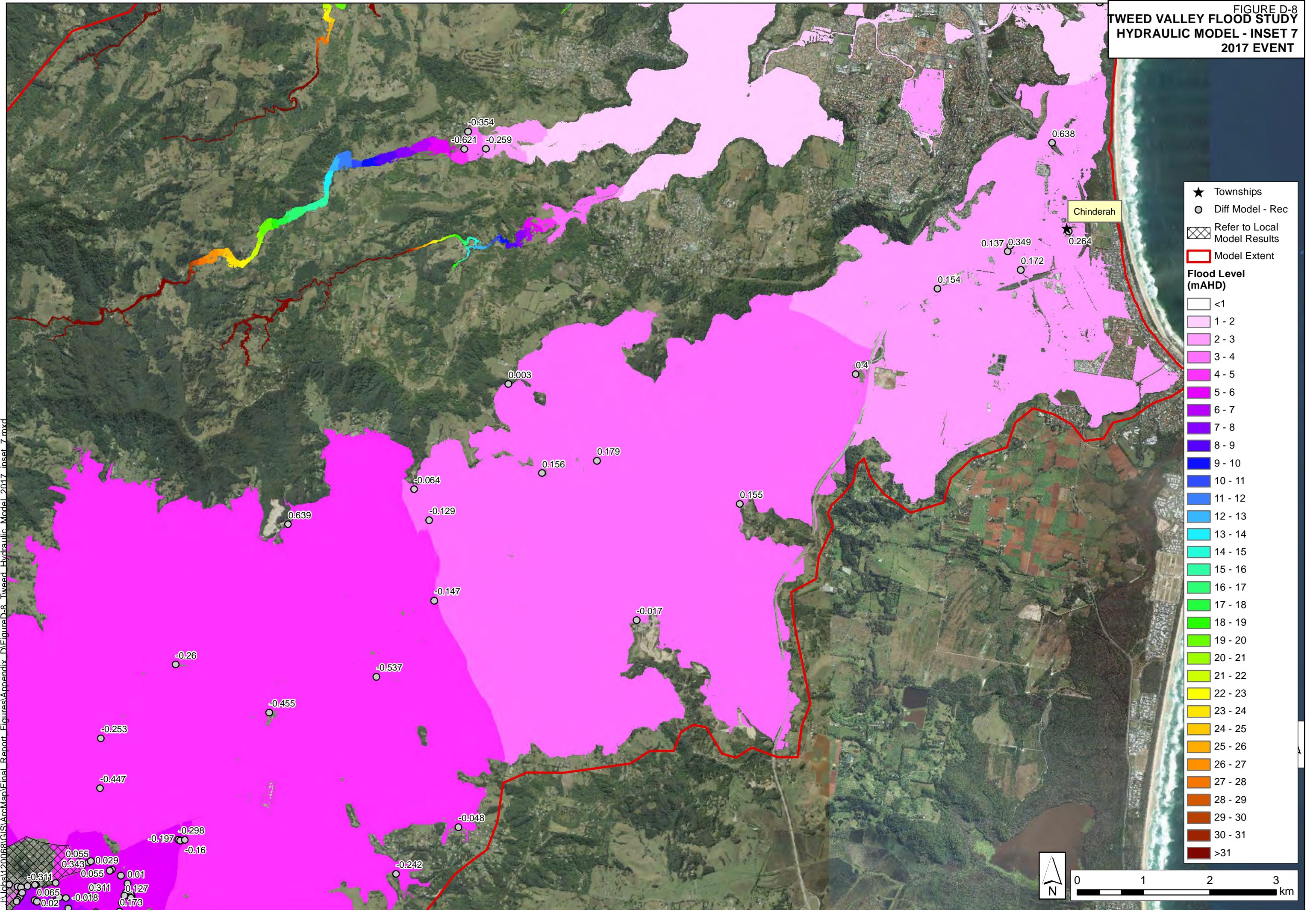


FIGURE D-8
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 7
 2017 EVENT



I:\Jobs\120068\GIS\Map\Final_Report_Figures\Appendix_D\FiguraD-8_Tweed_Hydraulic_Model_2017_inset_7.mxd

0.055 0.029 0.01
 0.343 0.055 0.311 0.127
 -0.311 0.065 -0.018 0.173
 0.02

- ★ Townships
 - Diff Model - Rec
 - ⊠ Refer to Local Model Results
 - ▭ Model Extent
- Flood Level (mAHD)**
- <1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
 - 5 - 6
 - 6 - 7
 - 7 - 8
 - 8 - 9
 - 9 - 10
 - 10 - 11
 - 11 - 12
 - 12 - 13
 - 13 - 14
 - 14 - 15
 - 15 - 16
 - 16 - 17
 - 17 - 18
 - 18 - 19
 - 19 - 20
 - 20 - 21
 - 21 - 22
 - 22 - 23
 - 23 - 24
 - 24 - 25
 - 25 - 26
 - 26 - 27
 - 27 - 28
 - 28 - 29
 - 29 - 30
 - 30 - 31
 - >31

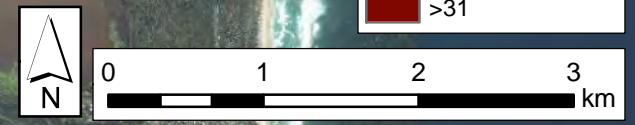
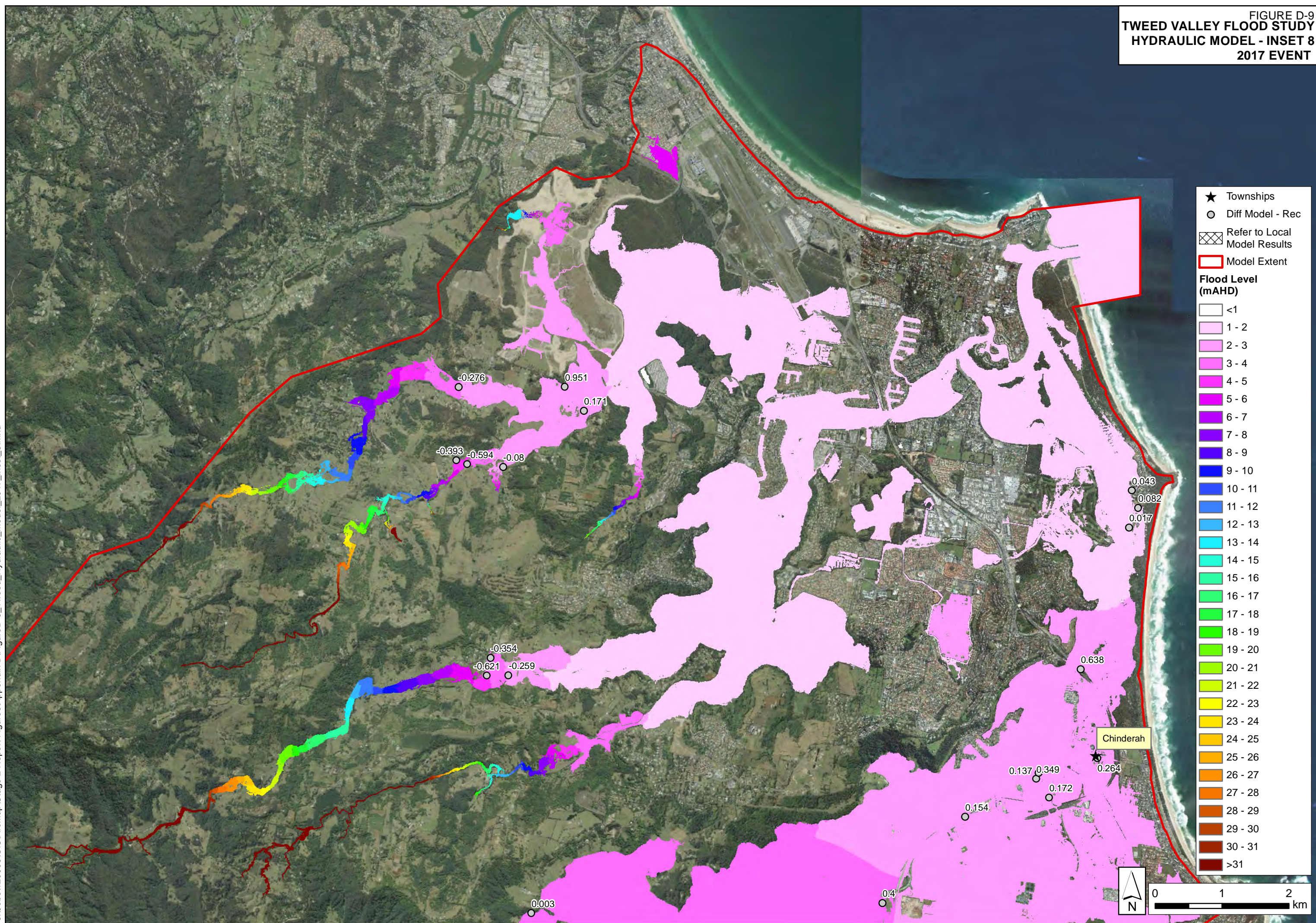


FIGURE D-9
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 8
 2017 EVENT

J:\Jobs\1200688\GIS\ArcMap\Stage 2 Report\Figures\Appendix D\FigureD-9_Tweed_Hydraulic_Model_2017_inset_8.mxd



★ Townships
 ○ Diff Model - Rec
 ☒ Refer to Local Model Results
 [Red Line] Model Extent

Flood Level (mAHD)

[White]	<1
[Light Pink]	1 - 2
[Pink]	2 - 3
[Magenta]	3 - 4
[Purple]	4 - 5
[Dark Purple]	5 - 6
[Blue-Purple]	6 - 7
[Blue]	7 - 8
[Dark Blue]	8 - 9
[Medium Blue]	9 - 10
[Light Blue]	10 - 11
[Cyan]	11 - 12
[Light Cyan]	12 - 13
[Green-Cyan]	13 - 14
[Green]	14 - 15
[Light Green]	15 - 16
[Medium Green]	16 - 17
[Dark Green]	17 - 18
[Olive Green]	18 - 19
[Yellow-Green]	19 - 20
[Yellow]	20 - 21
[Light Yellow]	21 - 22
[Yellow-Orange]	22 - 23
[Orange]	23 - 24
[Dark Orange]	24 - 25
[Brown-Orange]	25 - 26
[Brown]	26 - 27
[Dark Brown]	27 - 28
[Very Dark Brown]	28 - 29
[Black-Brown]	29 - 30
[Black]	30 - 31
[Dark Red-Black]	>31



Chinderah

-0.276 0.951 0.171

-0.393 -0.594 -0.08

-0.354 -0.621 -0.259

0.043 0.082 0.017

0.638

0.137 0.349 0.172

0.264

0.154

0.4

0.003