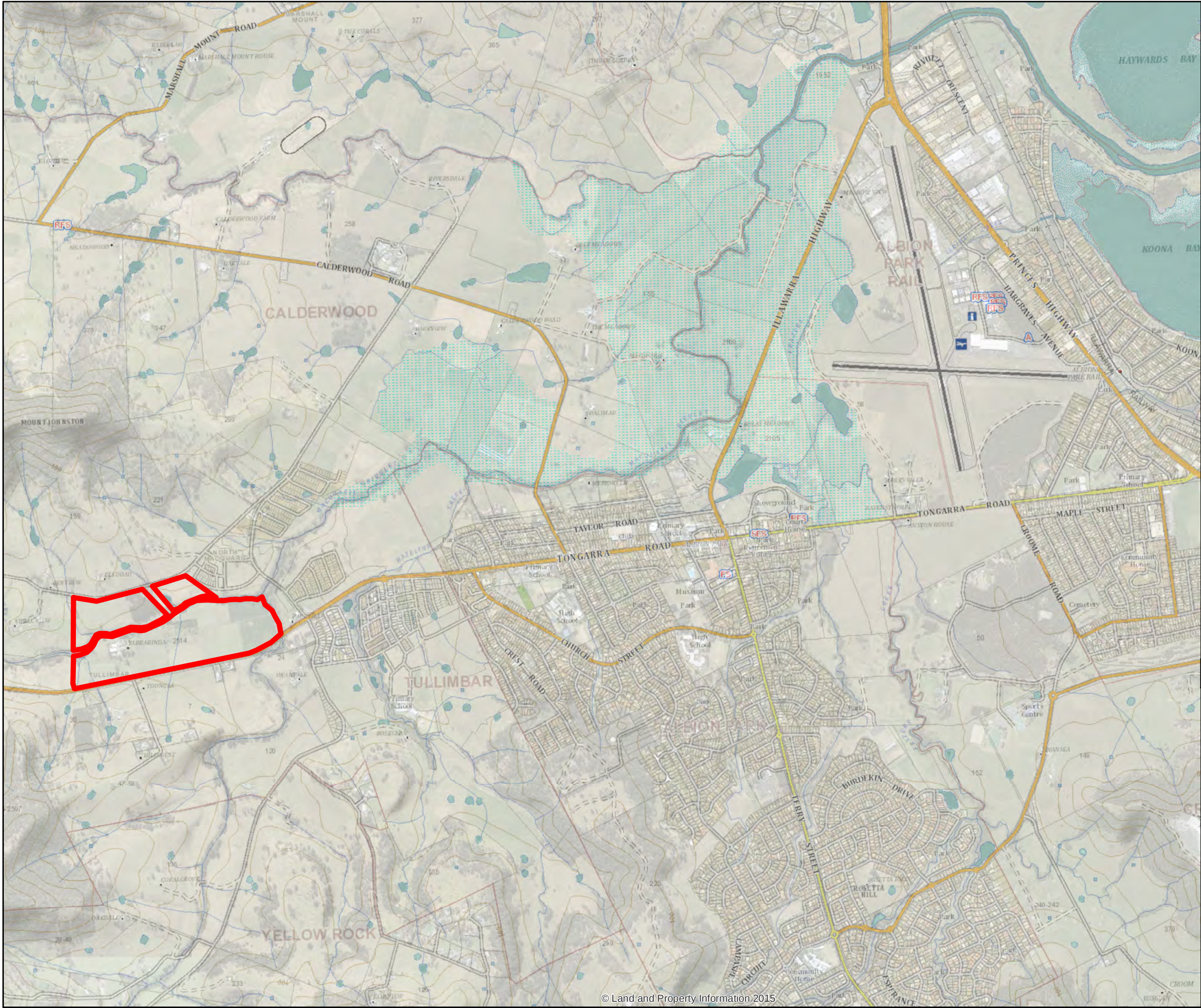




Legend

Subject Site

Figure A1

Locality Plan

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 Rev A

N

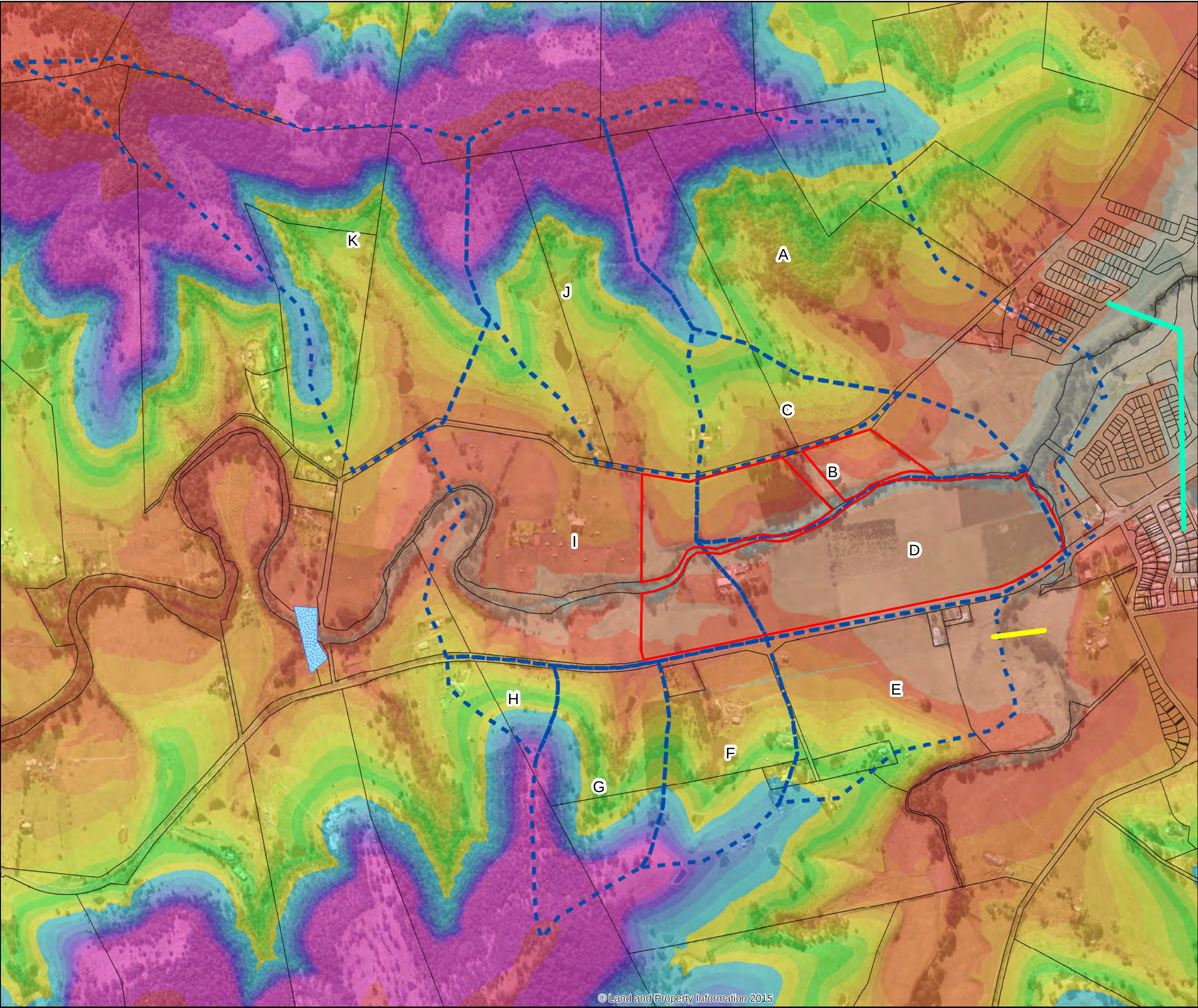
05001,000

Meters



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Legend

Development Location

Outlet Head Boundary

Flow Boundary (Yellow Rock Creek)

Flow Area (Macquarie Rivulet)

Catchments

Cadastre

Elevation (mAHD)

10 - 15

65.1 - 70

15.1 - 20

70.1 - 75

20.1 - 25

75.1 - 80

25.1 - 30

80.1 - 85

30.1 - 35

85.1 - 90

35.1 - 40

90.1 - 95

40.1 - 45

95.1 - 100

45.1 - 50

100.1 - 150

50.1 - 55

150.1 - 200

55.1 - 60

200.1 - 250

60.1 - 65

Figure A2
Elevation, Catchments
and Boundary Conditions

Date	04 July 2017
Job Name	2514 Illawarra Highway Tullimbar
Job Number	NL166600
Rev	A

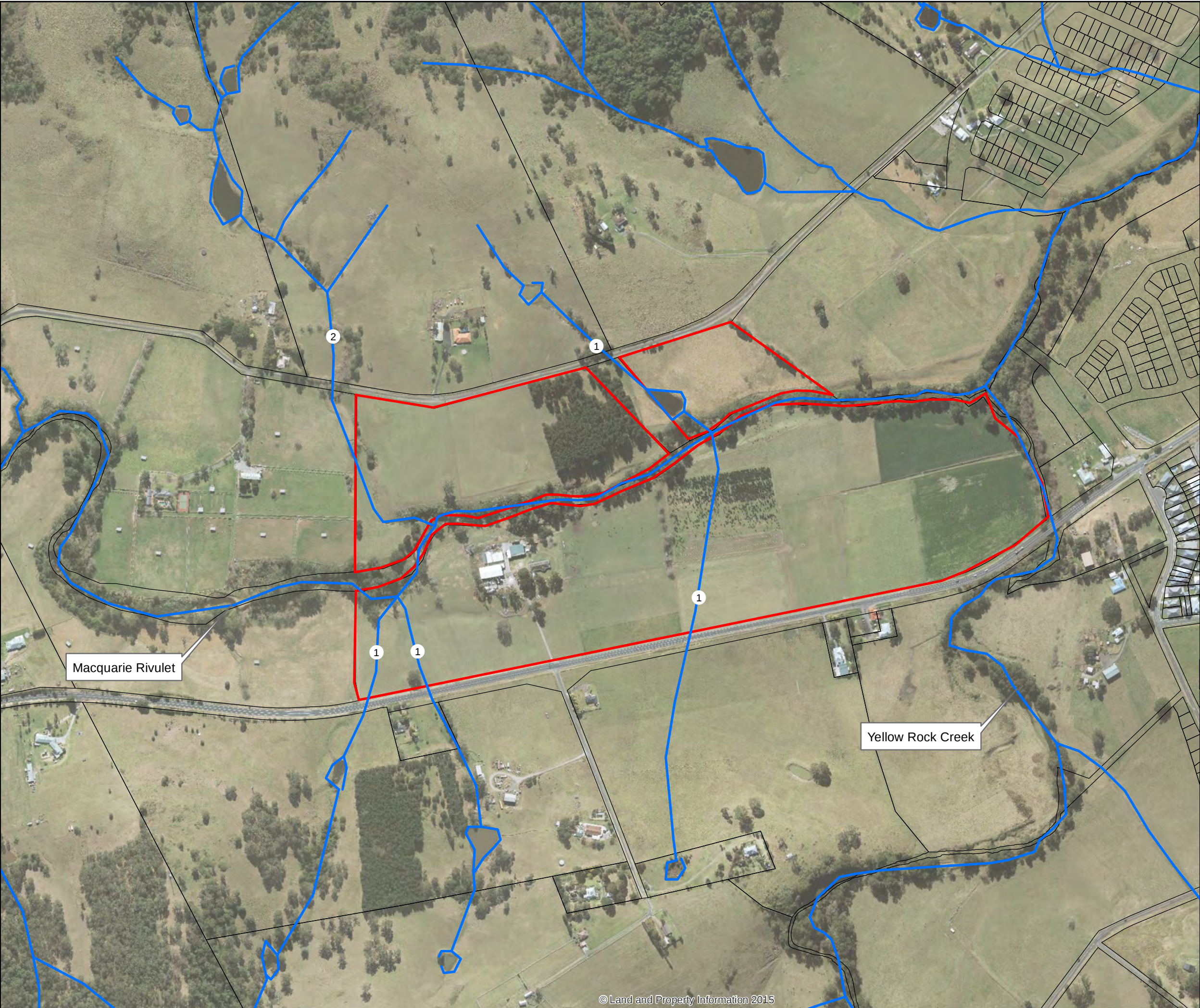
N

0225450Meters

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Legend

Creeks

Development Location

Cadastre

①

Creek Order

Figure A3
Creeks and Classification

Date

04 July 2017

Job Name

2514 Illawarra Highway
Tullimbar

Job Number

NL166600

Rev

A

N

0

137.5

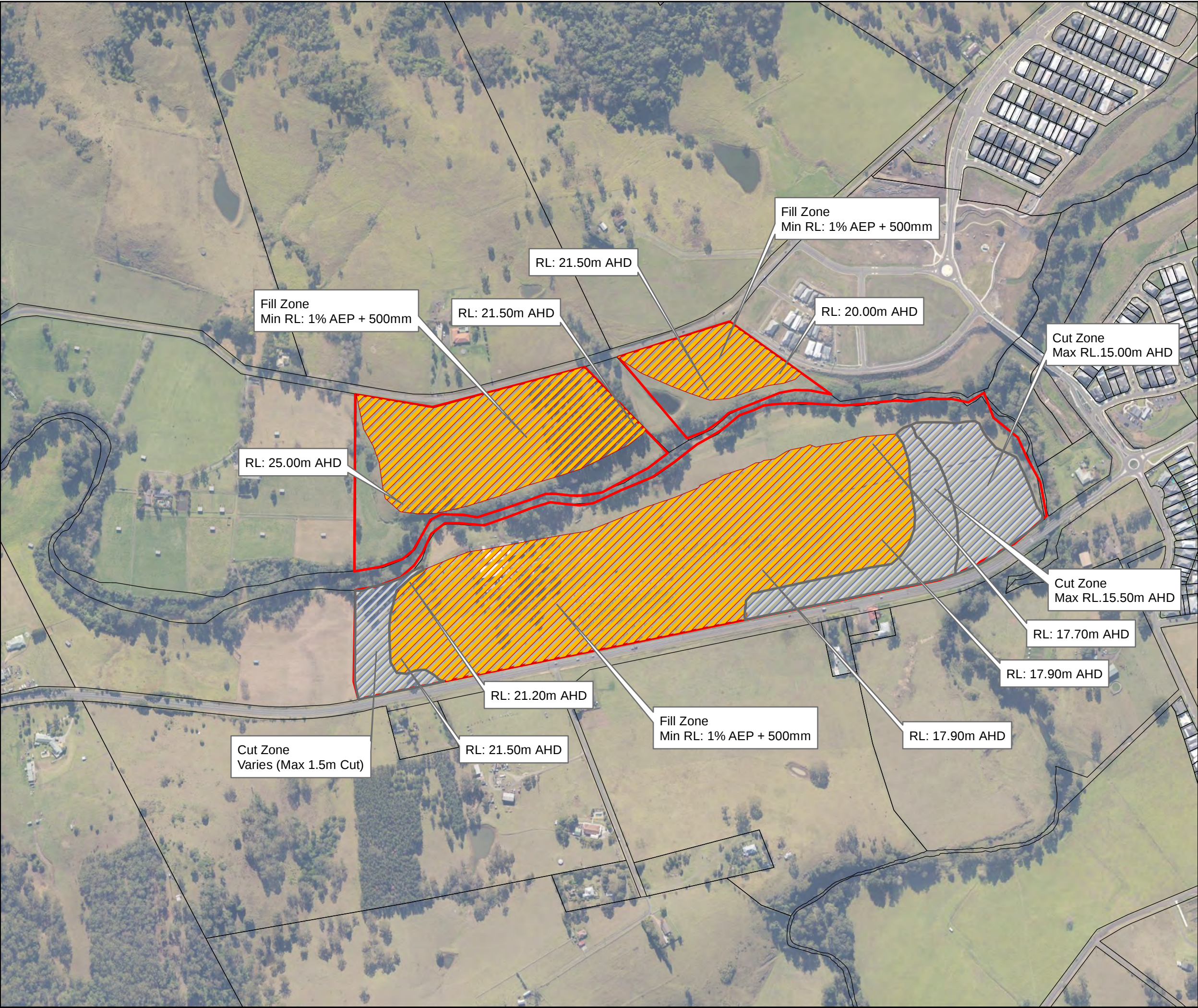
275

Meters

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Legend

-  Development Cut
-  Development Fill
-  Development Location
-  Cadastre

Figure A4
Development Extent
and Modelled Levels

Date 10 October 2019

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B



N

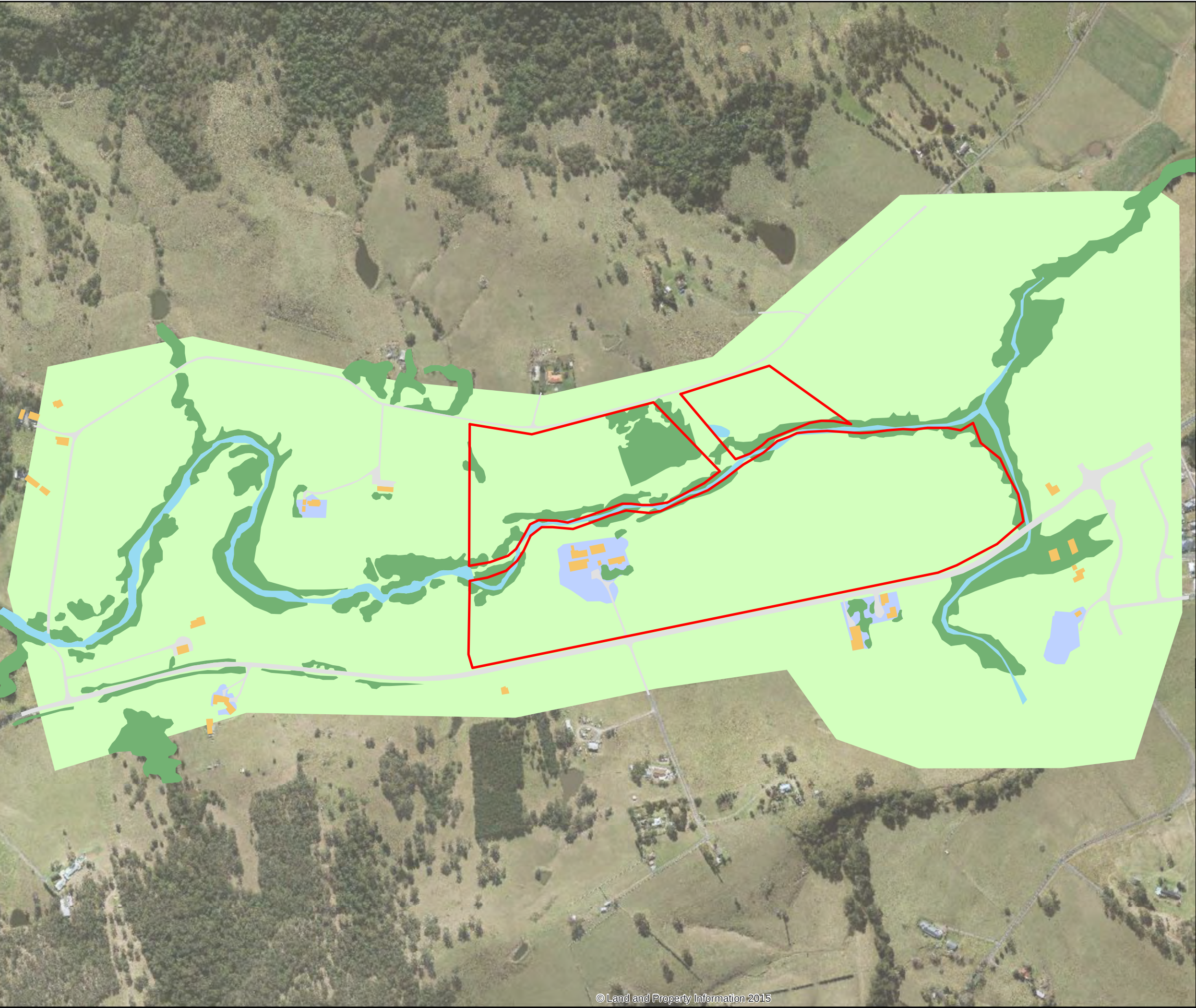
0 137.5 275
Meters



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Legend

Development Location

Water Bodies

Roads

2DLanduse_Buildings

Heavy vegetation

Yard Landscaping

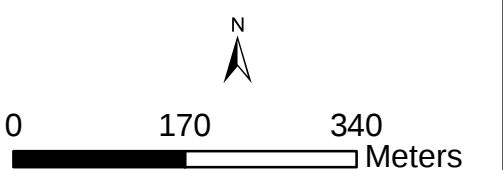
Grass

Figure A5
Manning's Roughness

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

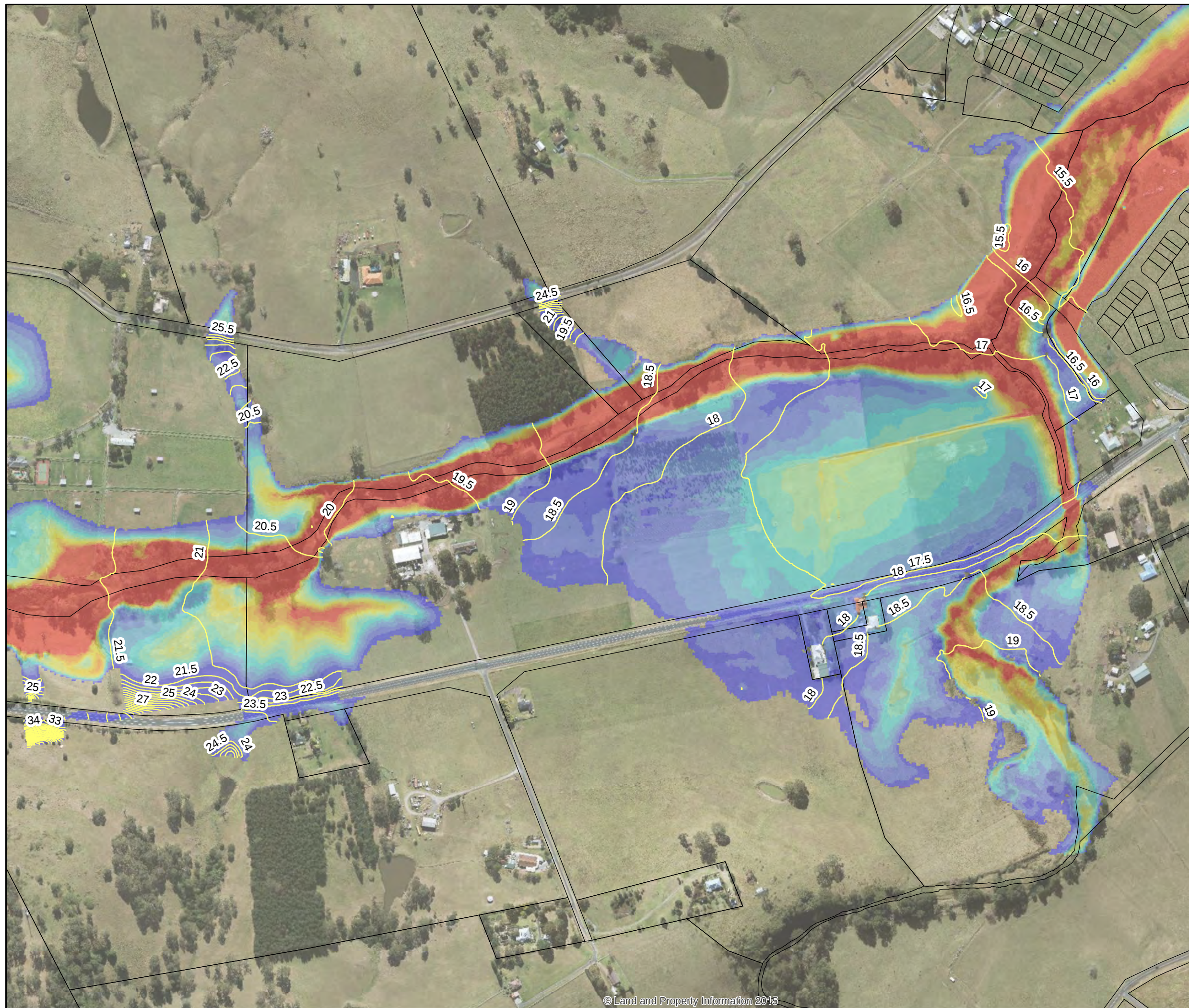
Job Number NL166600 **Rev** A



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Depth (m)

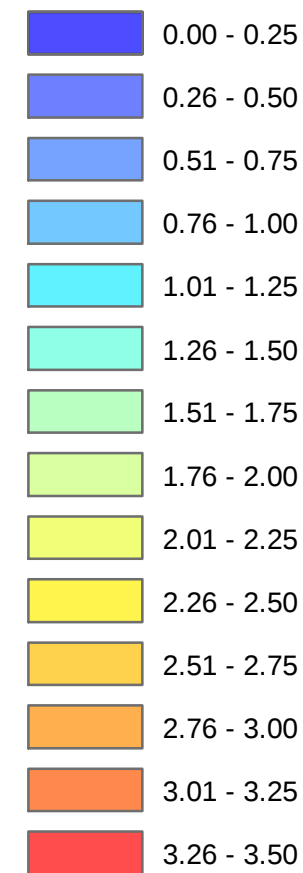
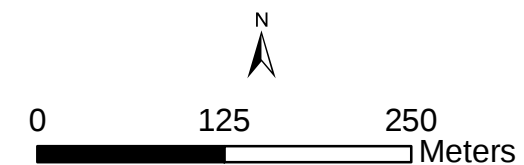


Figure B1
Existing Scenario
1% AEP Depth and Elevation

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 Rev A



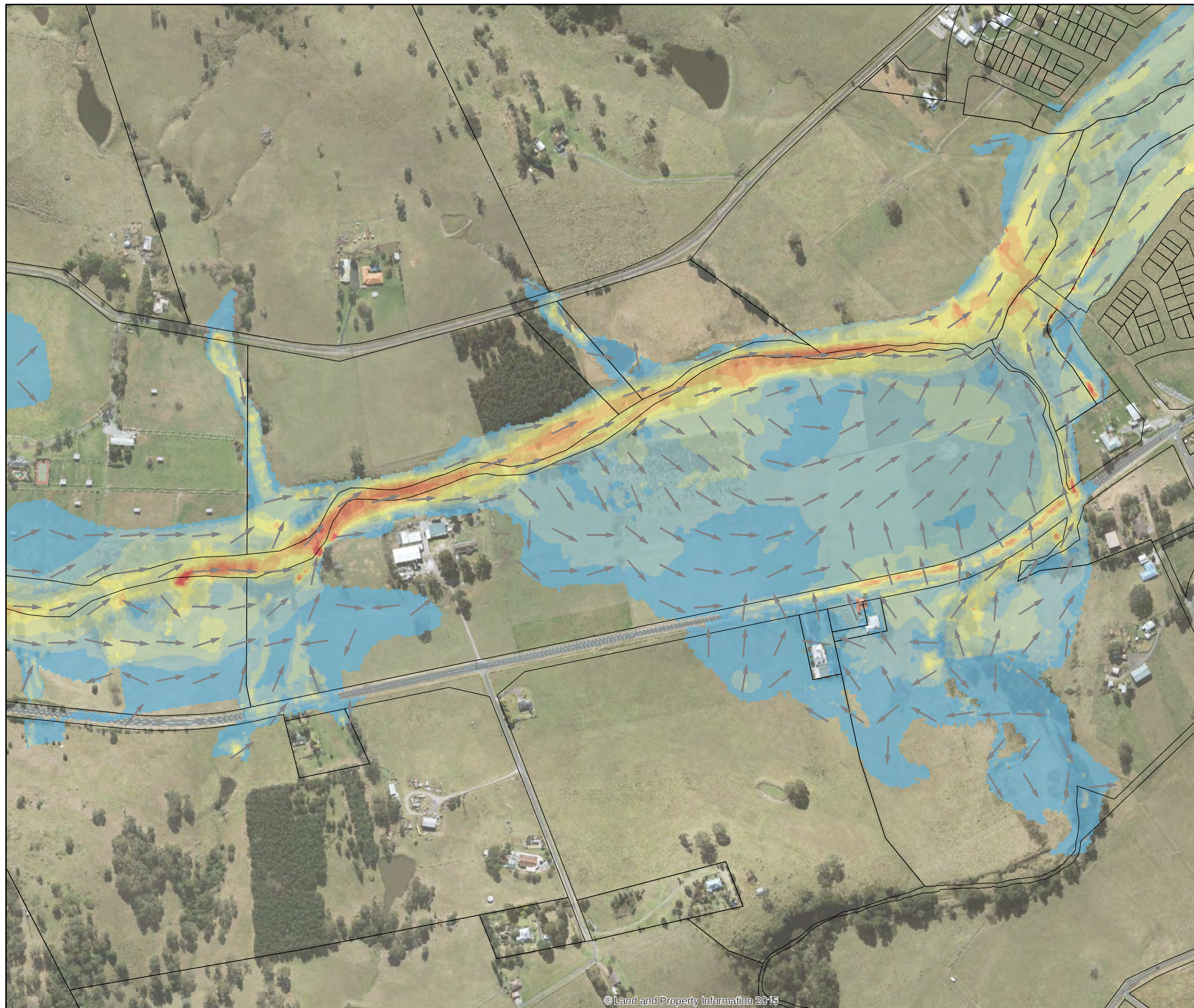
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Velocity (m/s)

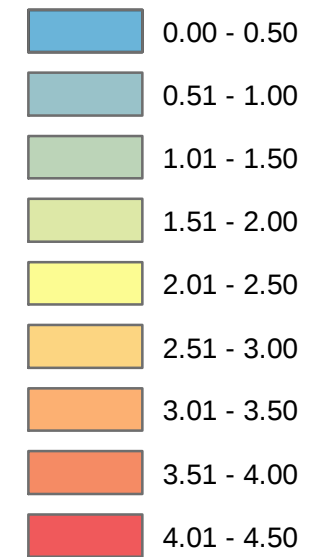
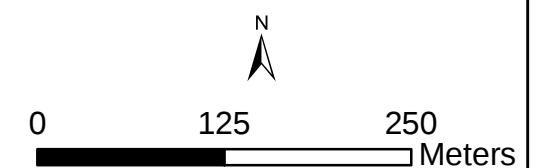


Figure B2
Existing Scenario
1% AEP Velocity

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** A



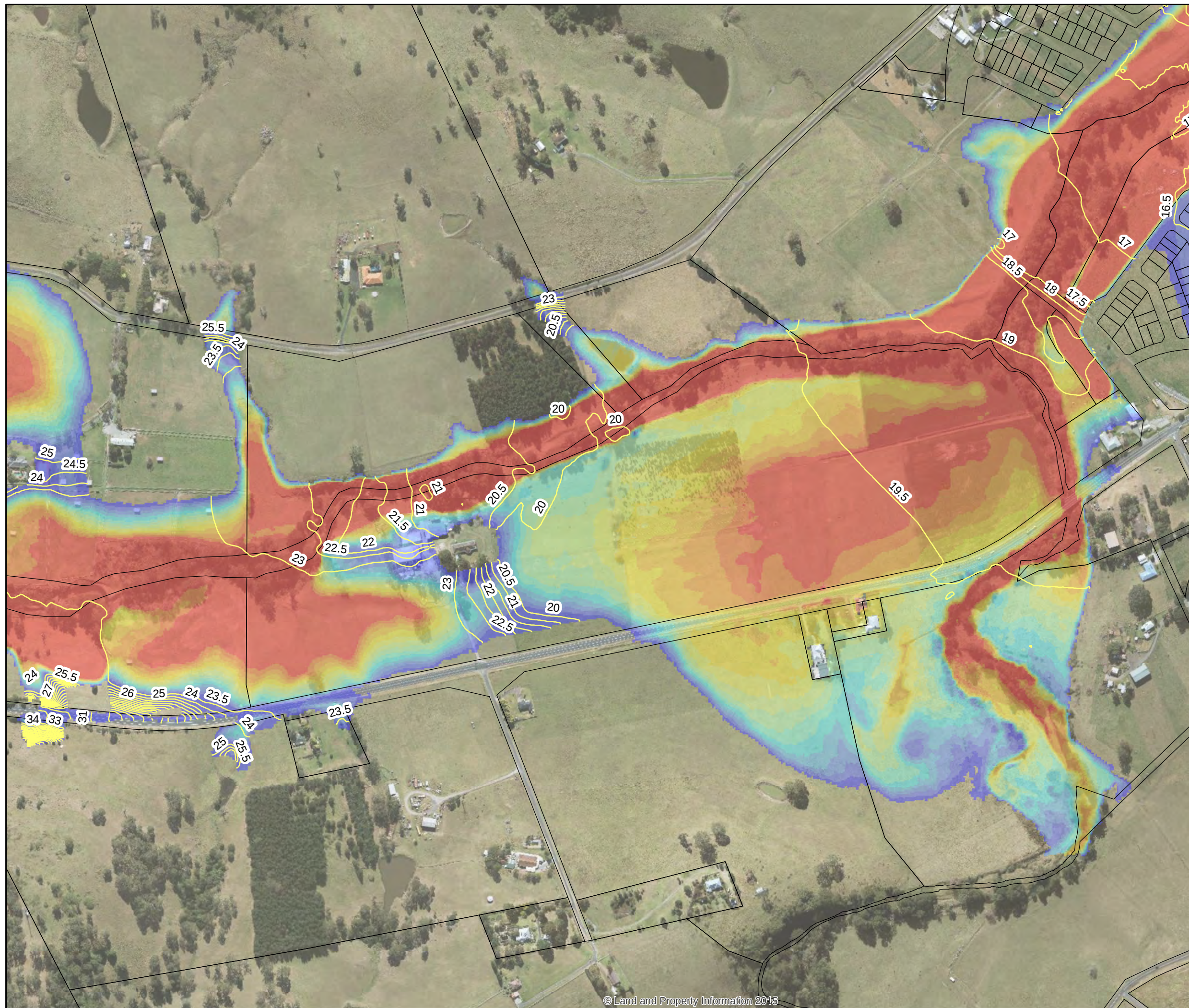
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Depth (m)

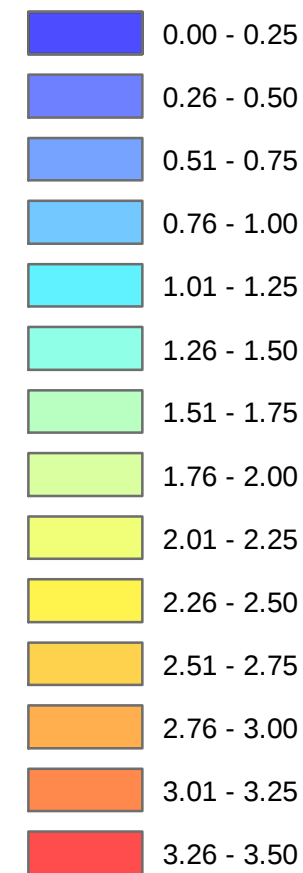
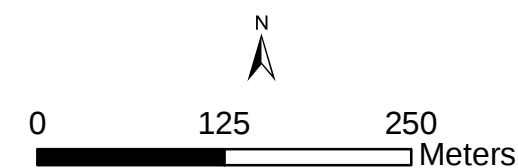


Figure B3
Existing Scenario
PMF Depth and Elevation

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** A



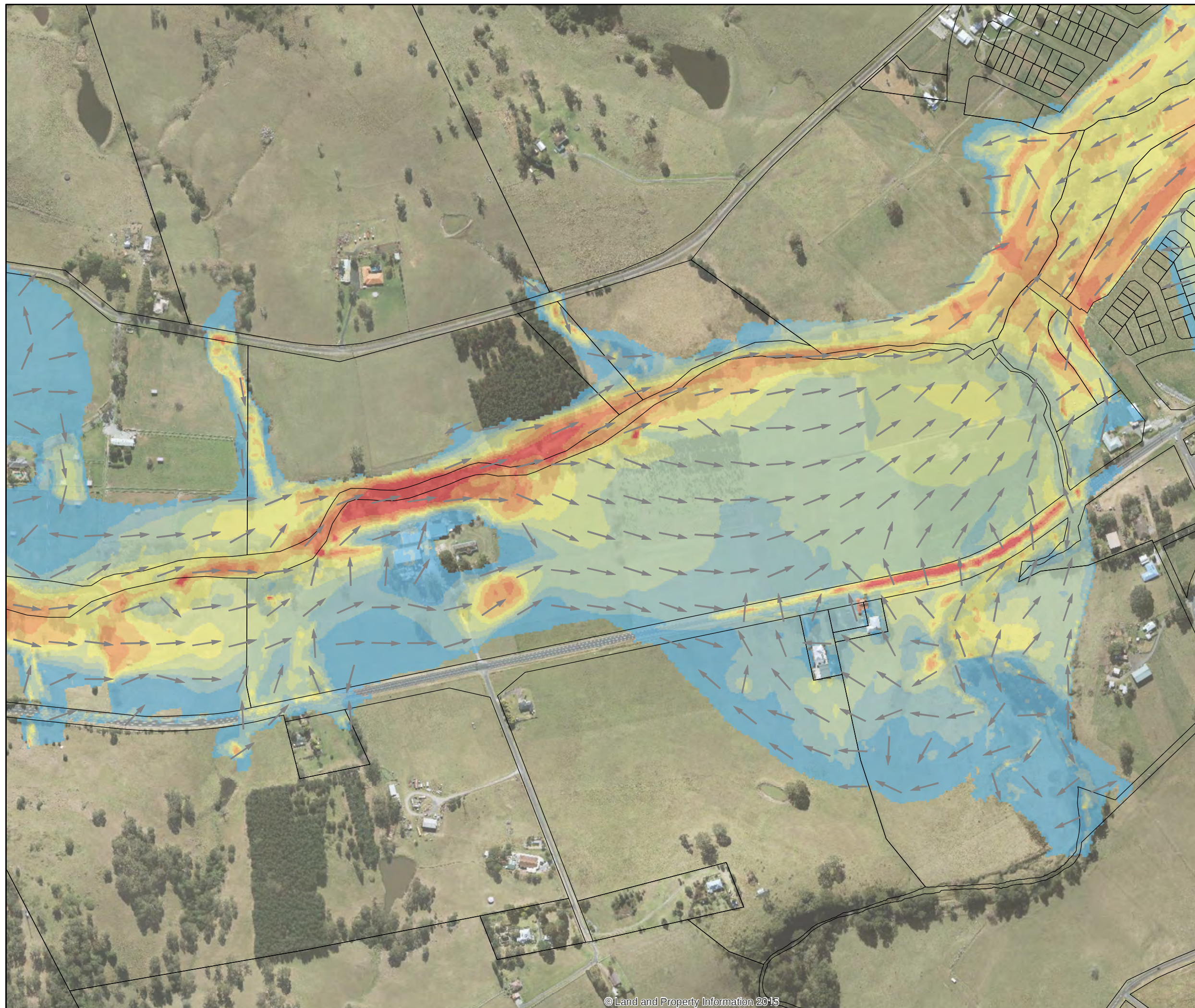
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Velocity (m/s)

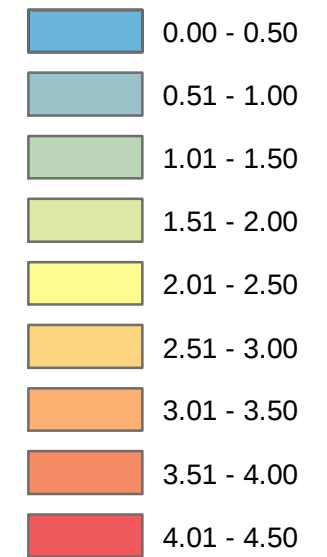
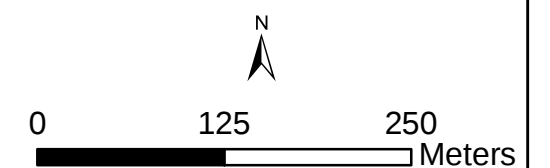


Figure B4
Existing Scenario
PMF Velocity

Date 04 July 2017

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** A



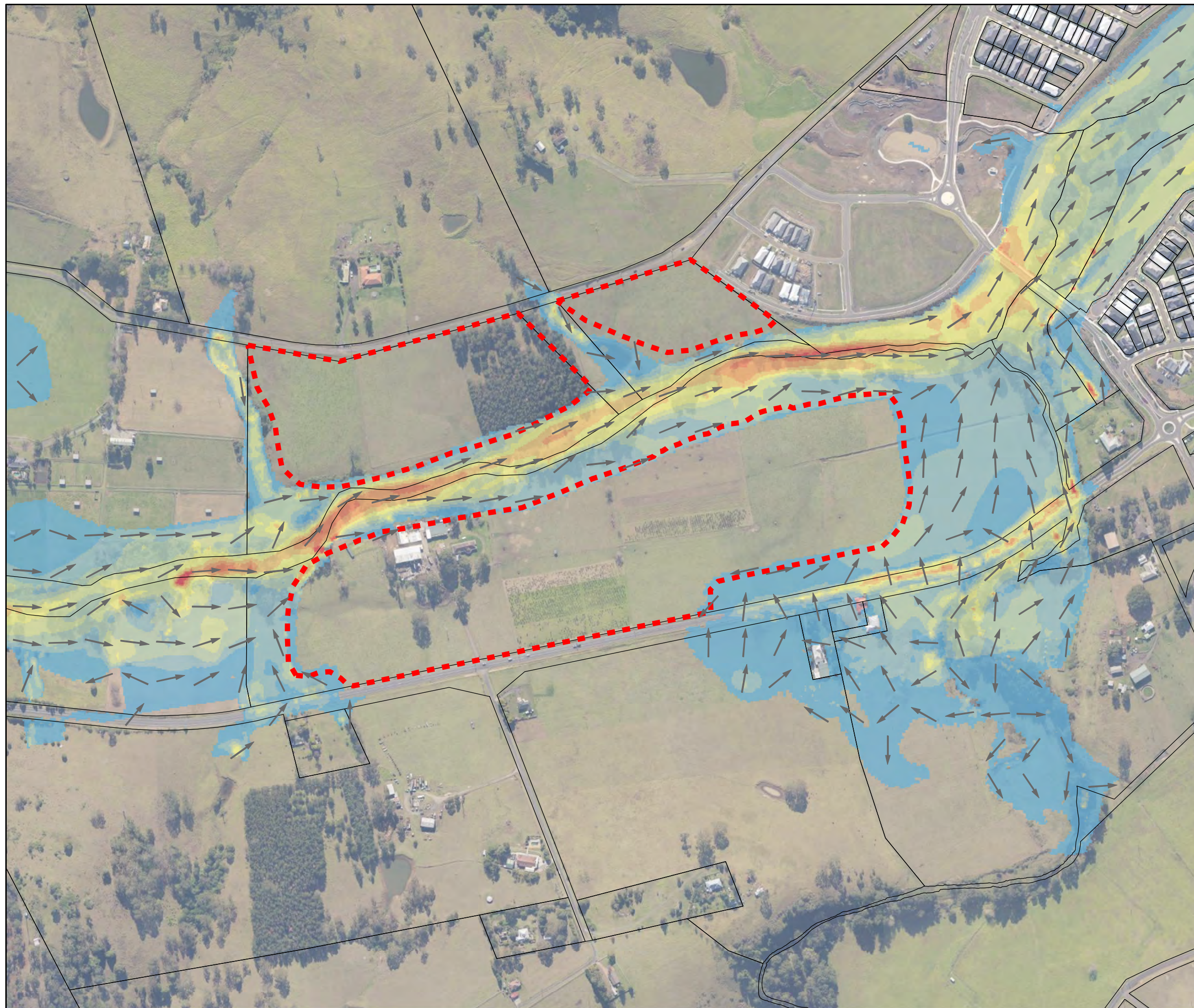
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Legend

 Development Extent

Velocity (m/s)

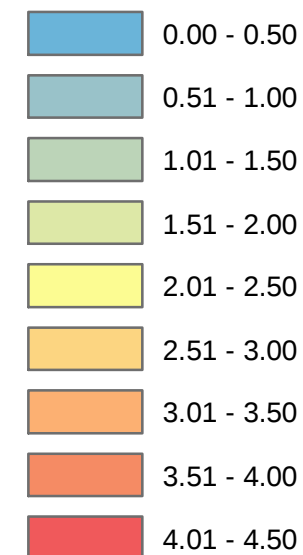
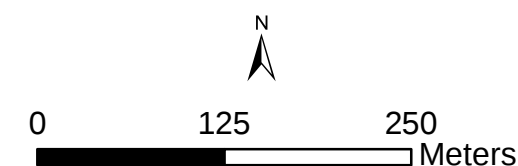


Figure B6
Developed Scenario
1% AEP Velocity

Date 10 October 2019

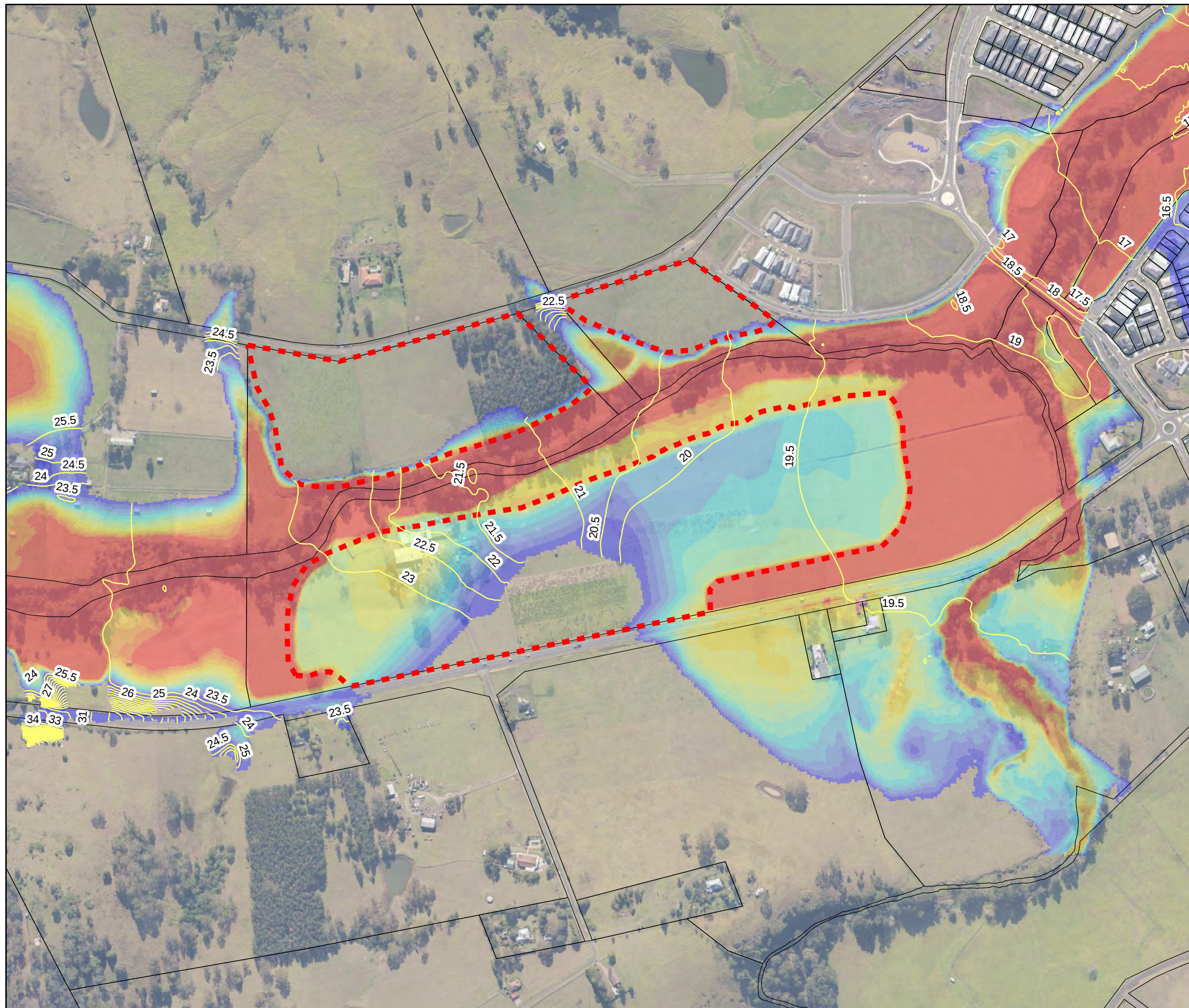
Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B



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Depth (m)

	0.00 - 0.25
	0.26 - 0.50
	0.51 - 0.75
	0.76 - 1.00
	1.01 - 1.25
	1.26 - 1.50
	1.51 - 1.75
	1.76 - 2.00
	2.01 - 2.25
	2.26 - 2.50
	2.51 - 2.75
	2.76 - 3.00
	3.01 - 3.25
	3.26 - 3.50

Figure B7
Developed Scenario
PMF Depth and Elevation

Date 10 October 2019

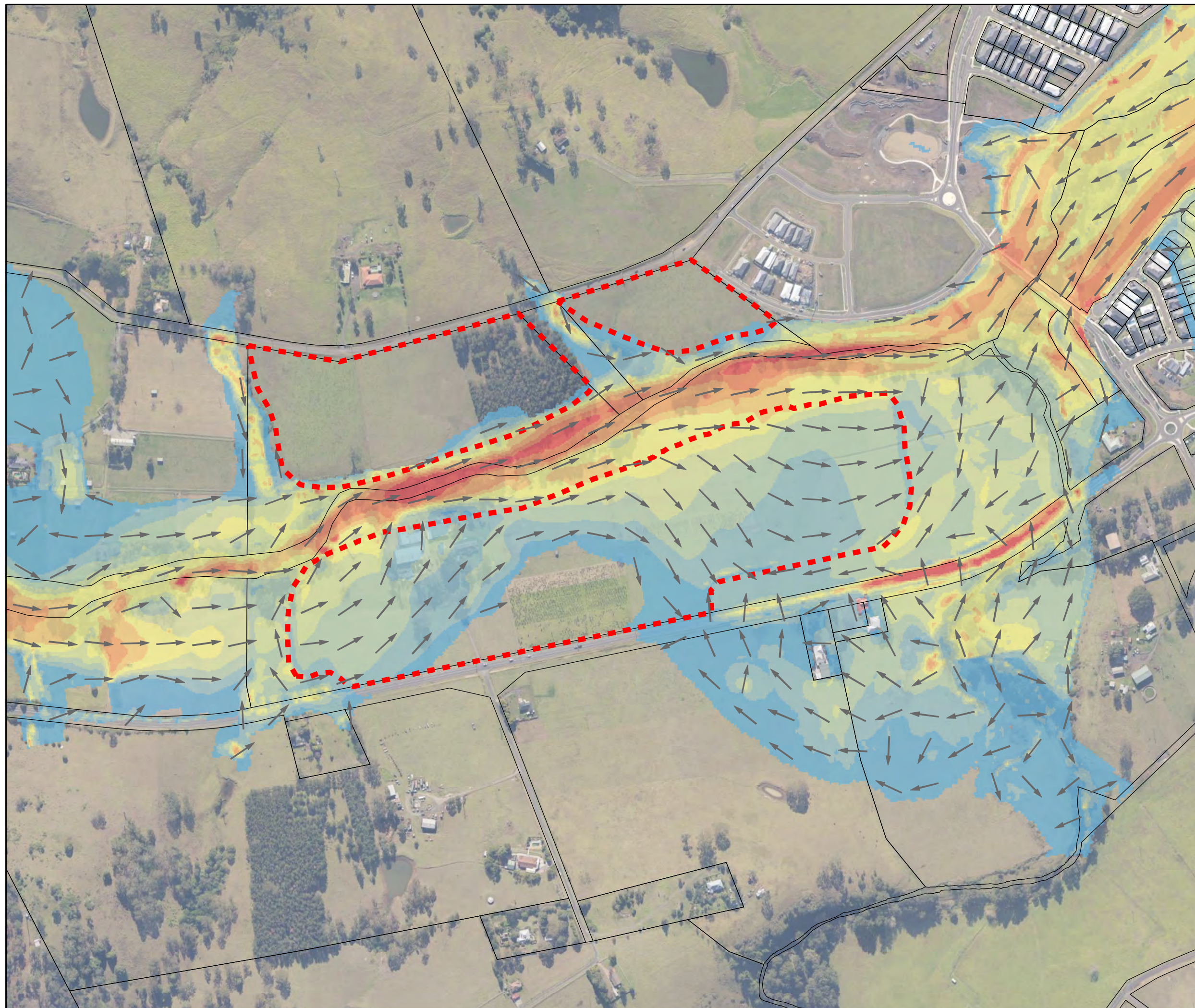
Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B

0 125 250 Meters

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Legend

 Development Extent

Velocity (m/s)

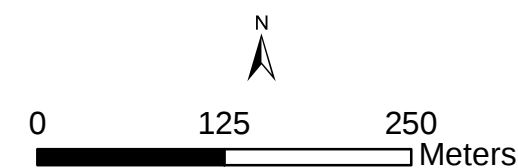
	0.00 - 0.50
	0.51 - 1.00
	1.01 - 1.50
	1.51 - 2.00
	2.01 - 2.50
	2.51 - 3.00
	3.01 - 3.50
	3.51 - 4.00
	4.01 - 4.50

Figure B8
Developed Scenario
PMF Velocity

Date 10 October 2019

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B



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Difference (m)

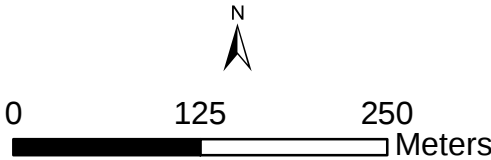
- 3.397 - -1.000
- 0.999 - -0.250
- 0.249 - -0.100
- 0.099 - -0.050
- 0.049 - -0.030
- 0.029 - -0.010
- 0.009 - 0.009
- 0.010 - 0.030
- 0.031 - 0.050
- 0.051 - 0.100
- 0.101 - 0.250
- 0.251 - 0.500
- 0.501 - 0.750
- 0.751 - 1.000
- 1.001 - 1.787

Figure B9
Pre to Post Comparison
1% AEP Depth

Date 10 October 2019

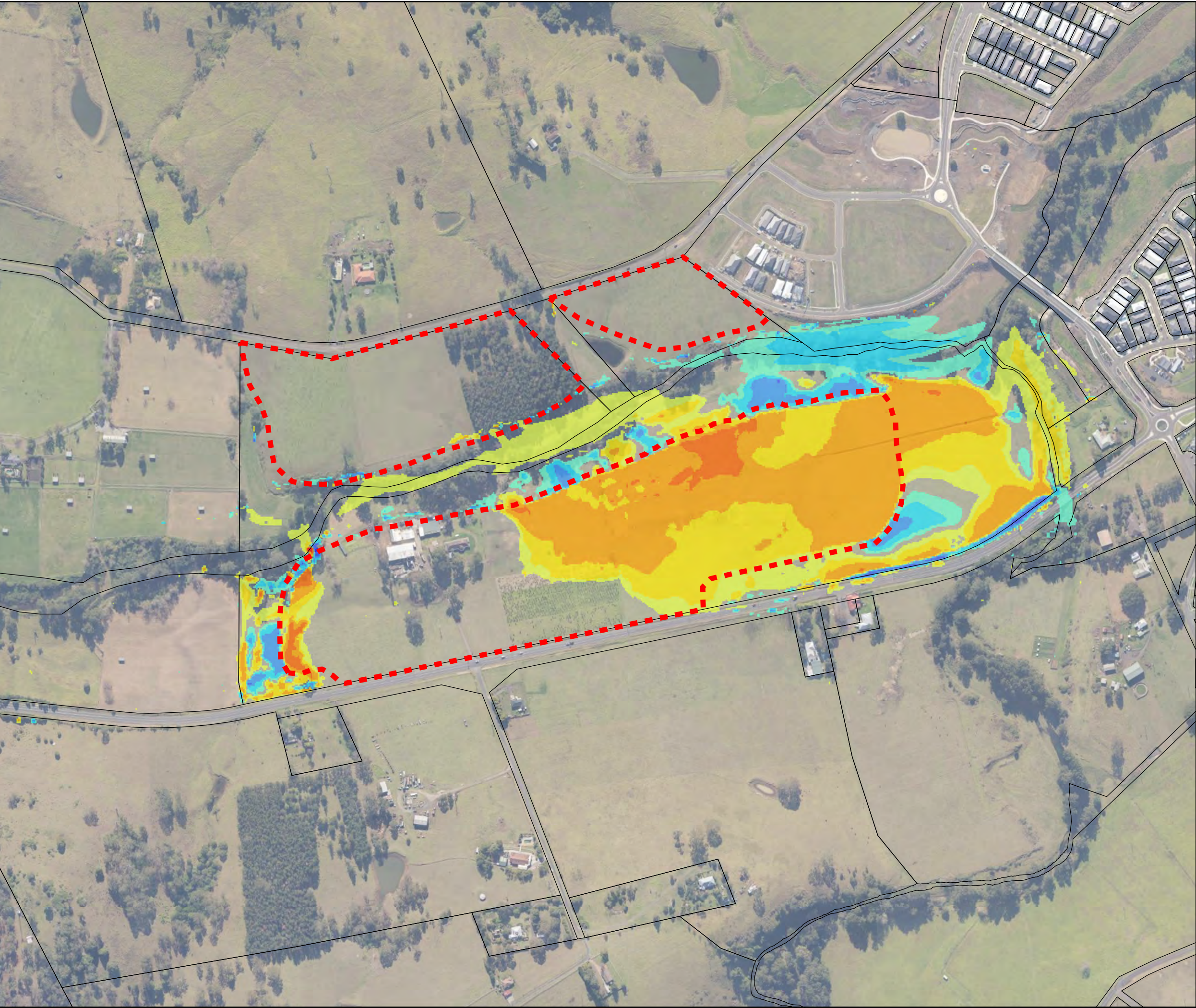
Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 Rev B



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Difference (m/s)

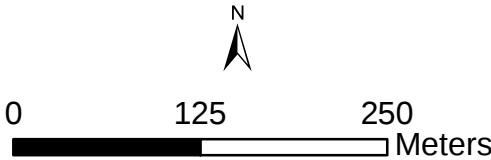
- 3.615 - -2.000
- 1.999 - -1.000
- 0.999 - -0.50
- 0.499 - -0.250
- 0.249 - -0.100
- 0.099 - 0.099
- 0.100 - 0.250
- 0.251 - 0.500
- 0.501 - 1.000
- 1.001 - 2.000
- 2.001 - 3.446

Figure B10
Pre to Post Comparison
1% AEP Velocity

Date 10 October 2019

Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B



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Difference (m)

	-3.922 - -2.000
	-1.999 - -1.000
	-0.999 - -0.250
	-0.249 - -0.100
	-0.099 - -0.050
	-0.049 - -0.030
	-0.029 - -0.010
	-0.009 - 0.009
	0.010 - 0.030
	0.031 - 0.050
	0.051 - 0.100
	0.101 - 0.250
	0.251 - 0.500
	0.501 - 0.750
	0.751 - 1.000
	1.001 - 2.000
	2.001 - 2.727

Figure B11
Pre to Post Comparison
PMF Depth

Date 10 October 2019

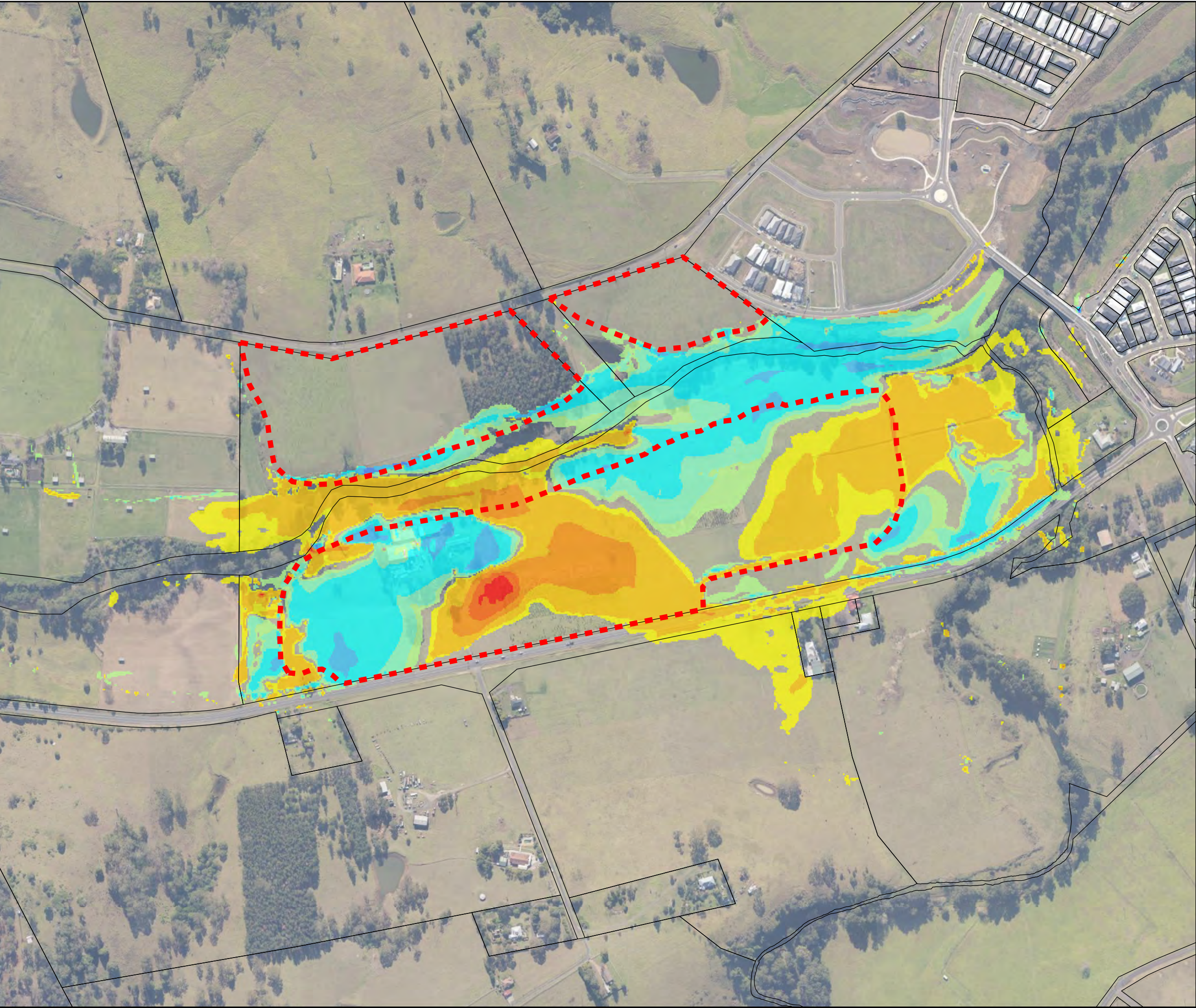
Job Name
2514 Illawarra Highway
Tullimbar

Job Number NL166600 **Rev** B

N
0 125 250
Meters

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Difference (m/s)

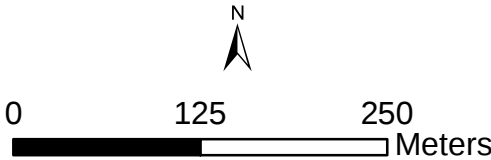
- 3.66 - -3.000
- 2.999 - -2.000
- 1.999 - -1.000
- 0.999 - -0.250
- 0.249 - -0.100
- 0.099 - 0.100
- 0.101 - 0.250
- 0.251 - 0.500
- 0.501 - 1.000
- 1.001 - 2.000
- 2.001 - 3.000
- 3.001 - 4.000
- 4.001 - 4.784

Figure B12
Pre to Post Comparison
PMF Velocity

Date 10 October 2019

Job Name
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Tullimbar

Job Number NL166600 Rev B



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