

Appendix B

Existing Conditions Flood Maps

B1 - Existing Flood Depth 39% AEP

B2 – Existing Flood Depth 10% AEP

B3 – Existing Flood Depth 1% AEP

B4 – Existing Flood Velocity 39% AEP

B5 – Existing Flood Velocity 10% AEP

B6 – Existing Flood Velocity 1% AEP

B7 – Existing Flood Duration 39% AEP

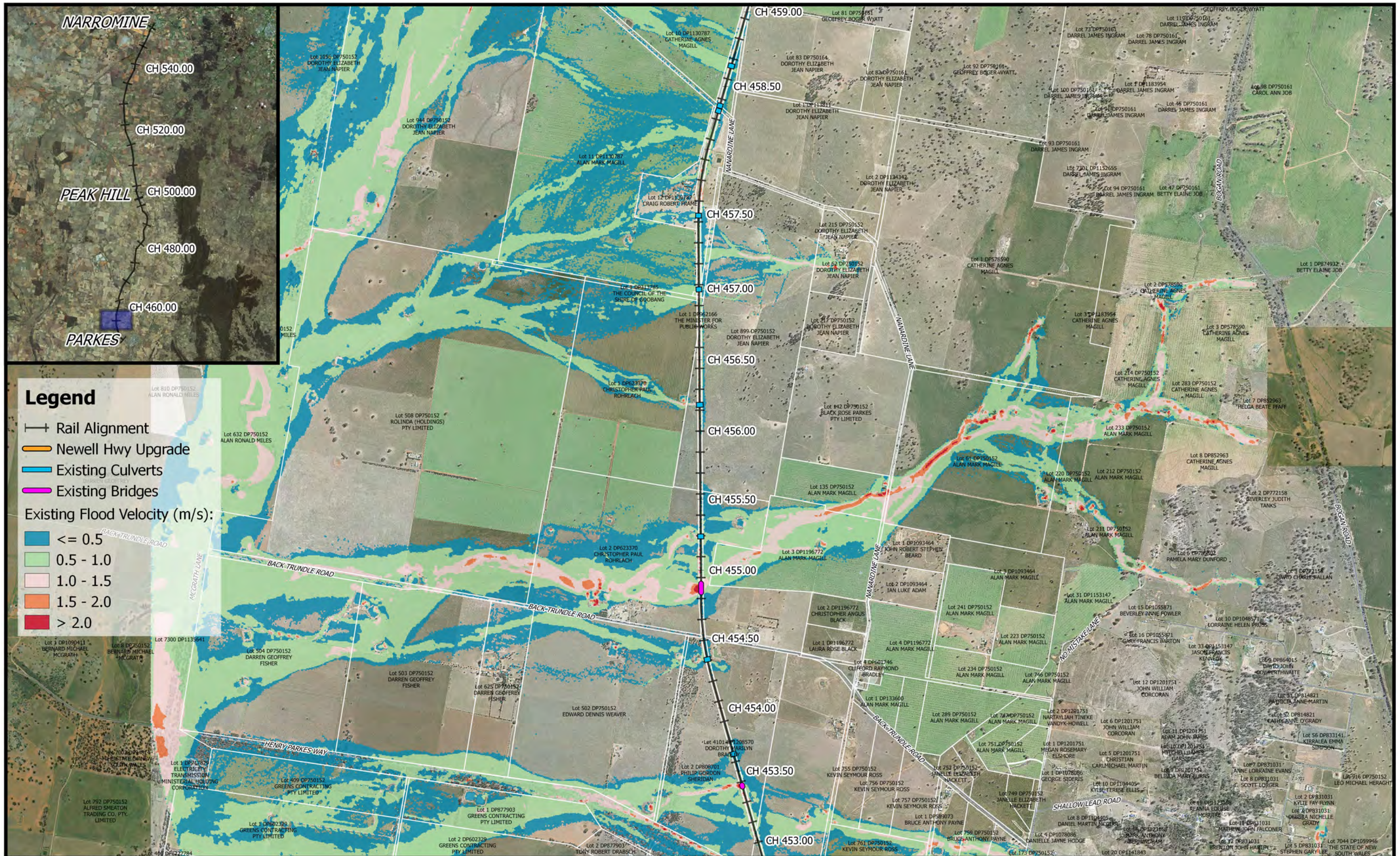
B8 – Existing Flood Duration 10% AEP

B9 – Existing Flood Duration 1% AEP





	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 18/10/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V1 1% AEP Existing Flood Velocity - CH 450.00</p>
	Rev: B			
	Prepared By: YeohM			



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



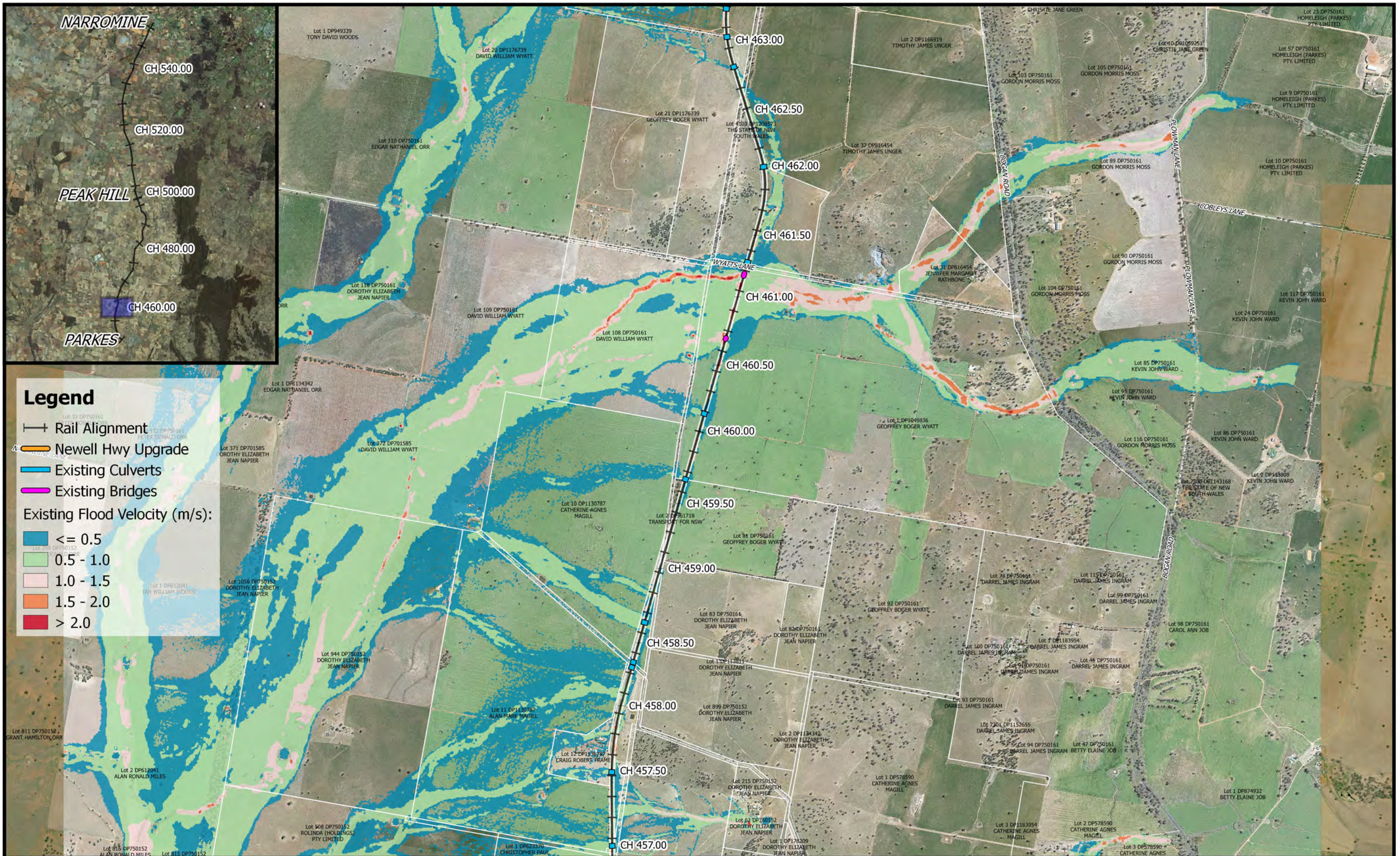
Date: 18/10/2018

Rev: B

Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX1V2
1% AEP Existing Flood Velocity - CH 455.00



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V3 1% AEP Existing Flood Velocity - CH 460.00</p>
			Rev: A	
			Prepared By: WhiteleyD	

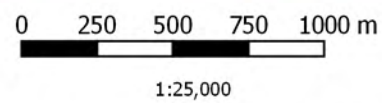


Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



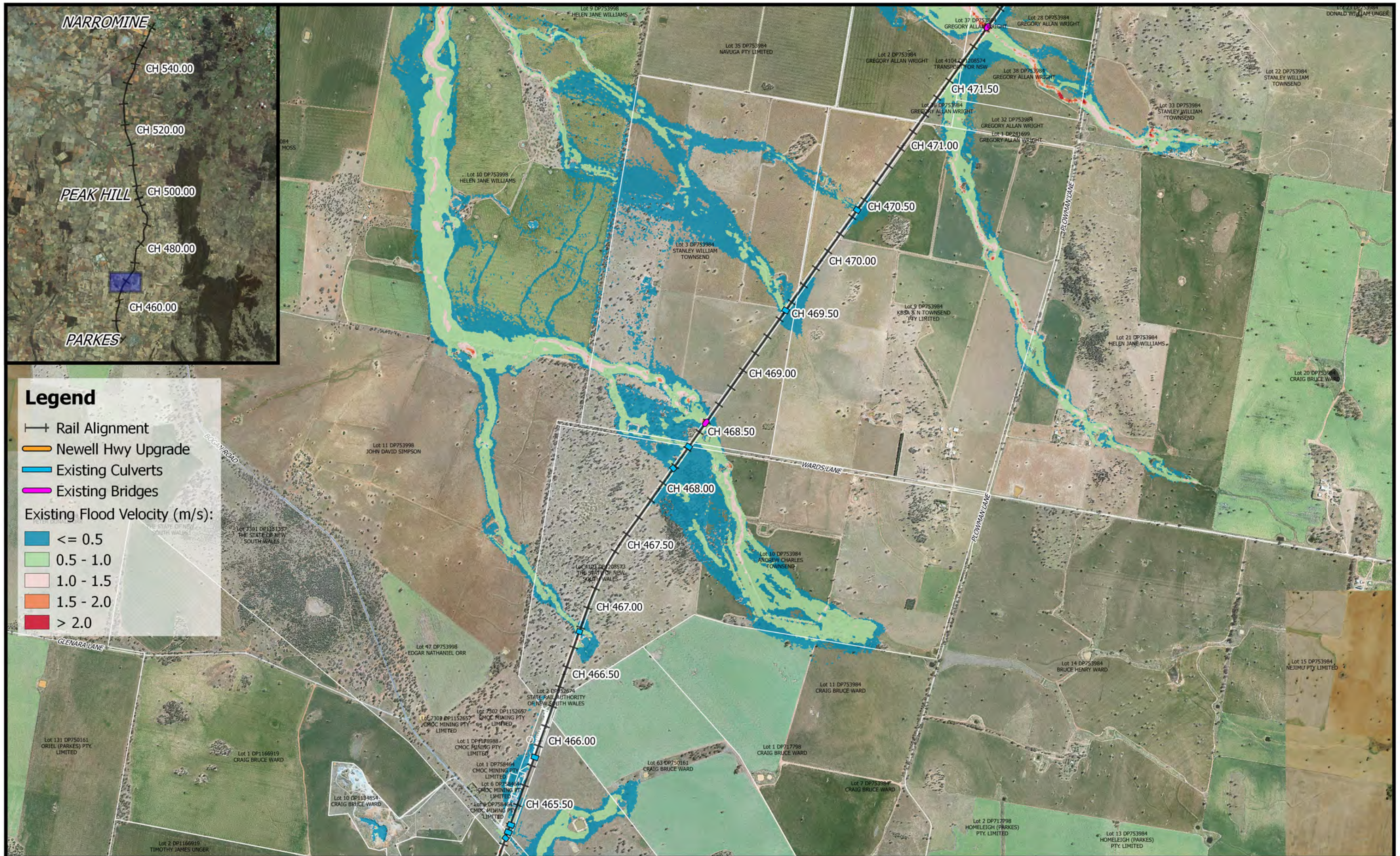
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX1V4
1% AEP Existing Flood Velocity - CH 465.00



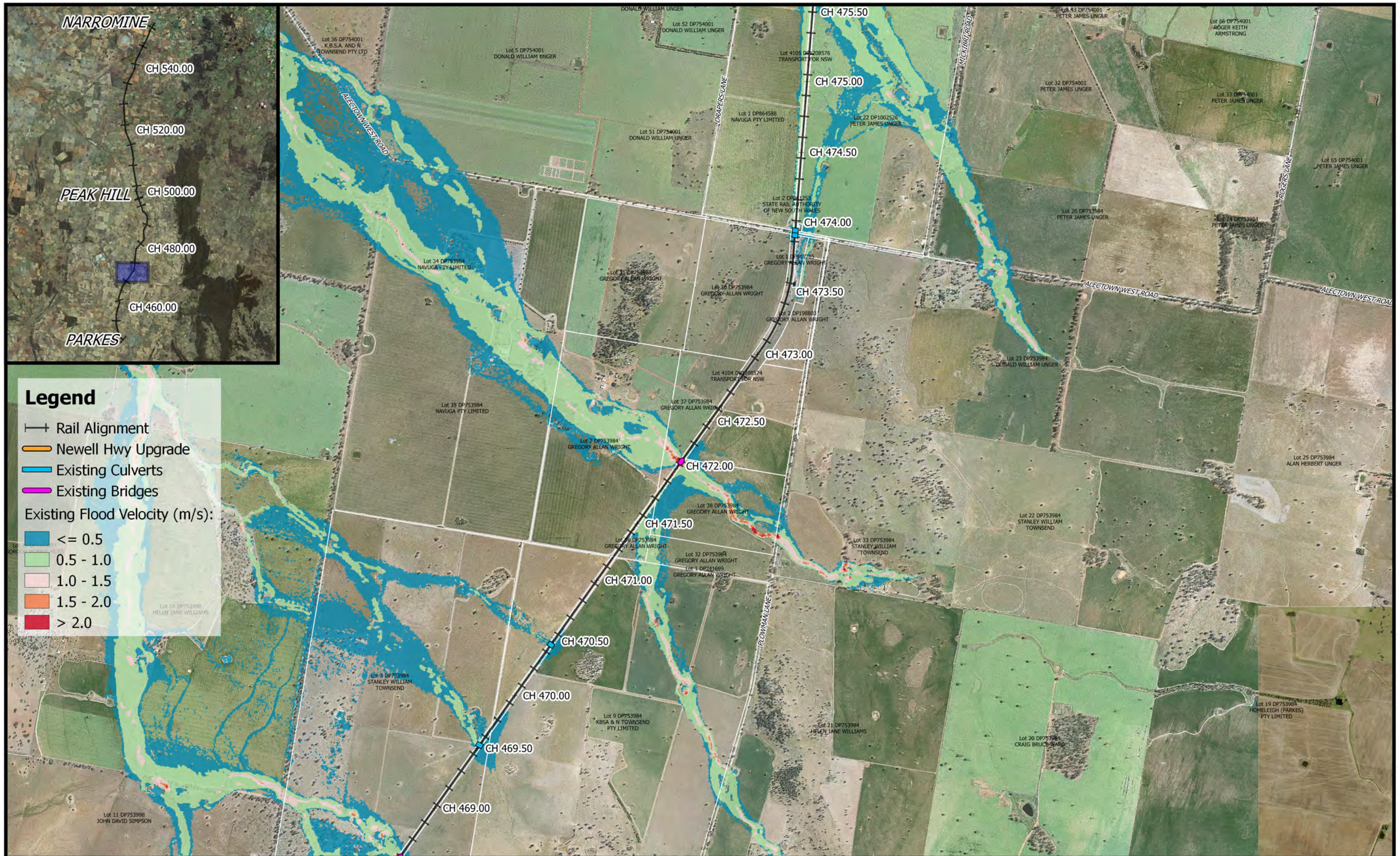
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V5 1% AEP Existing Flood Velocity - CH 470.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V6 <i>1% AEP Existing Flood Velocity - CH 472.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



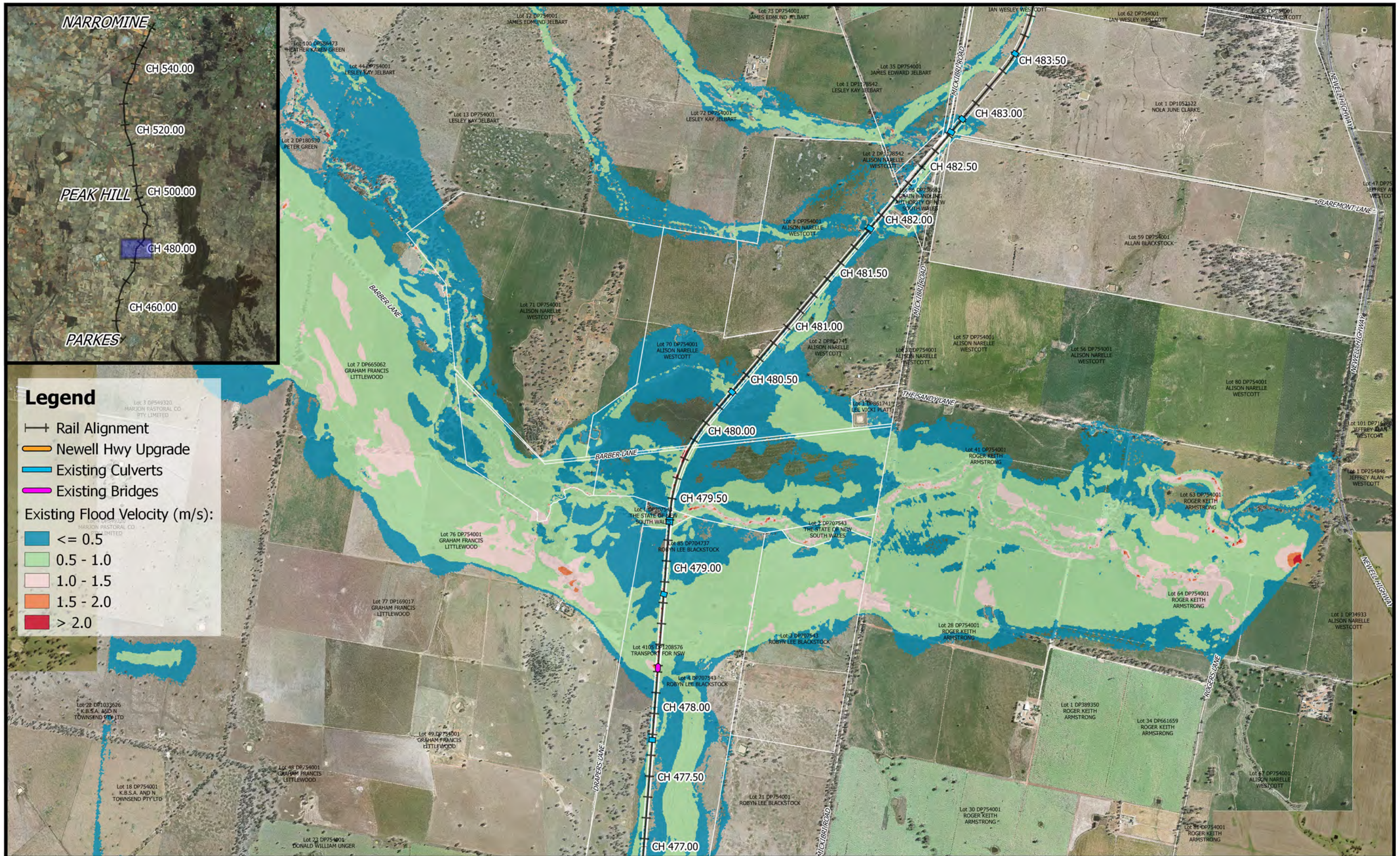
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V7 <i>1% AEP Existing Flood Velocity - CH 475.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



			Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V8 <i>1% AEP Existing Flood Velocity - CH 480.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



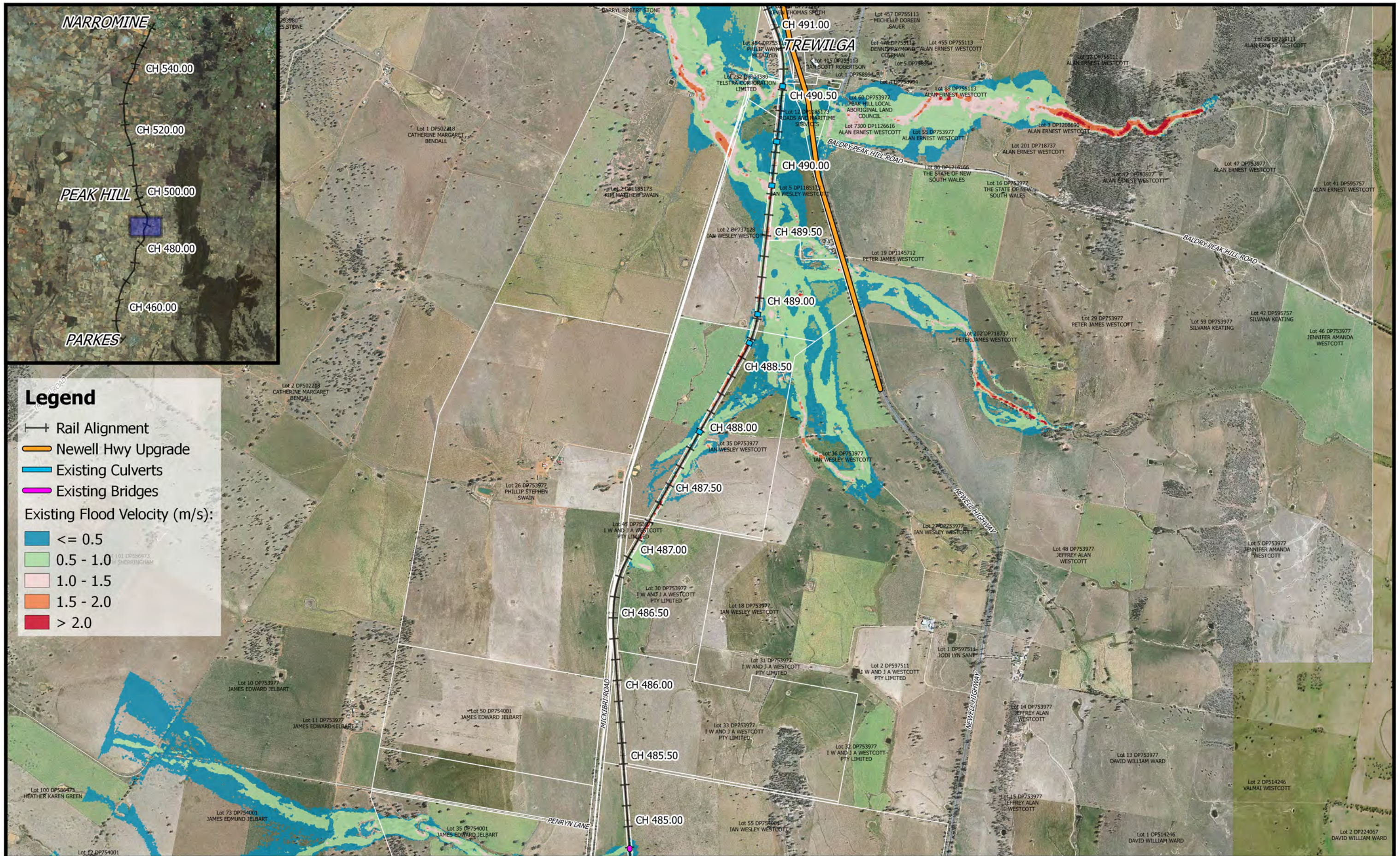
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V9 <i>1% AEP Existing Flood Velocity - CH 485.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



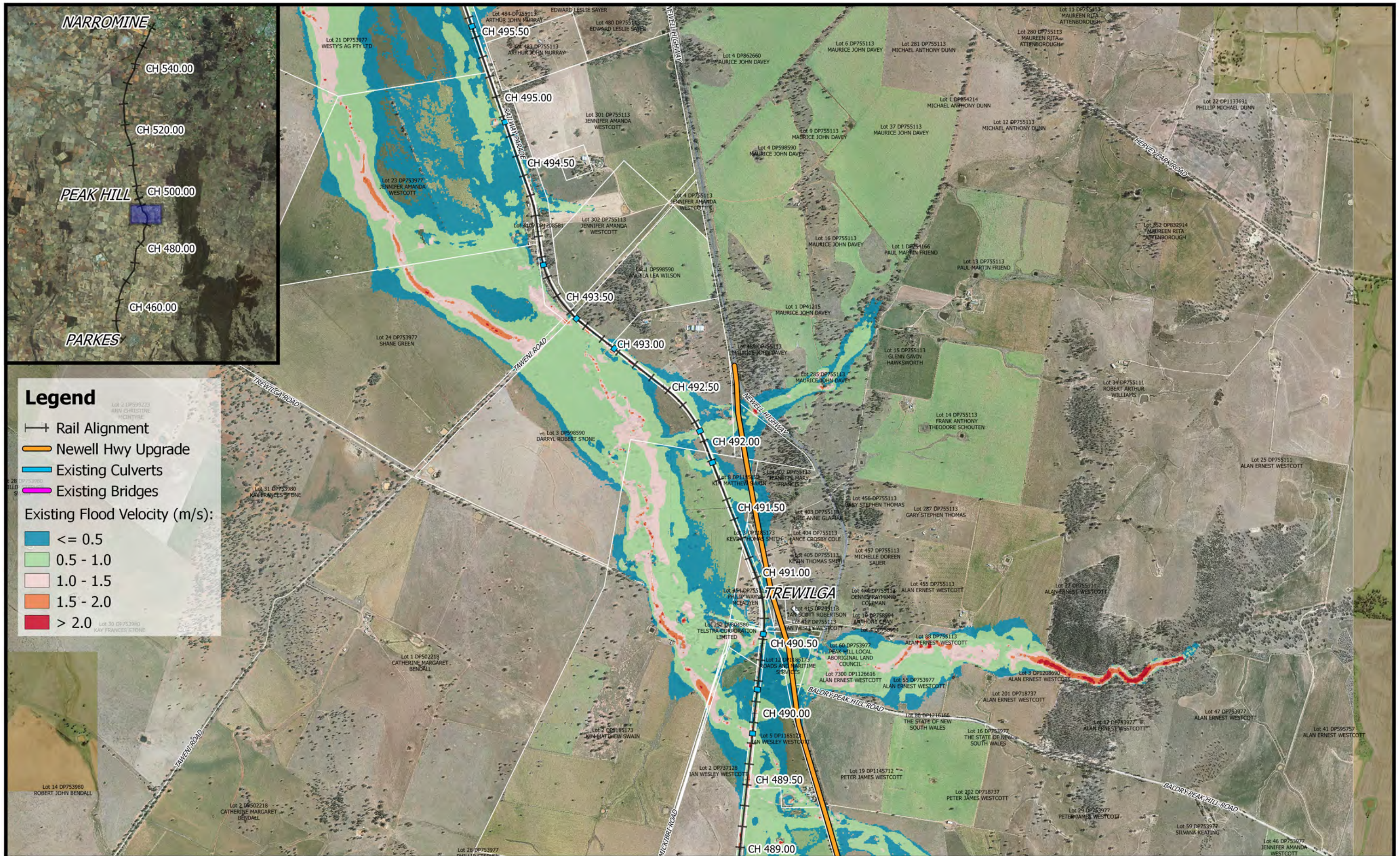
Legend


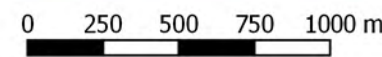

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

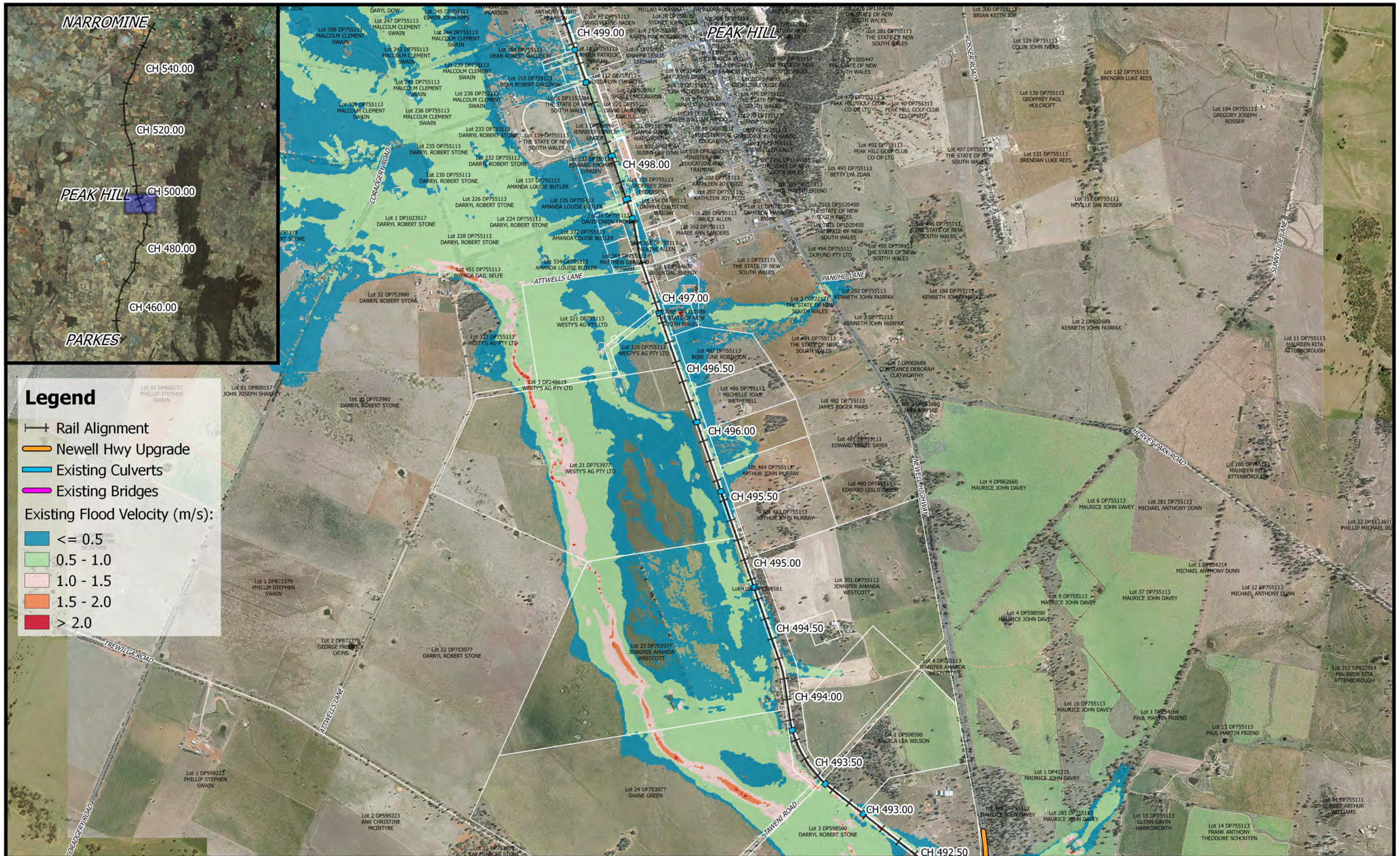
Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

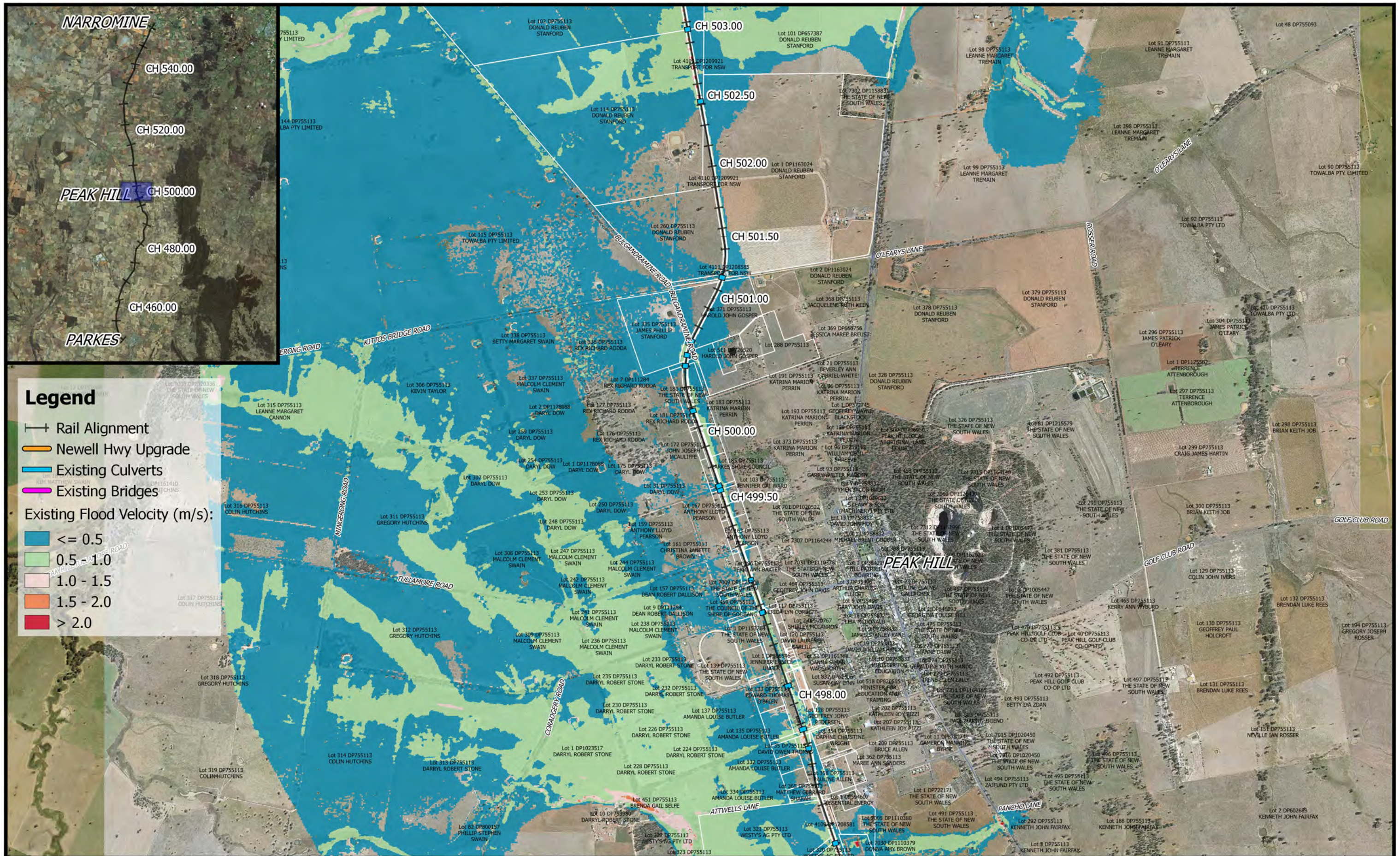
	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V10 1% AEP Existing Flood Velocity - CH 490.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



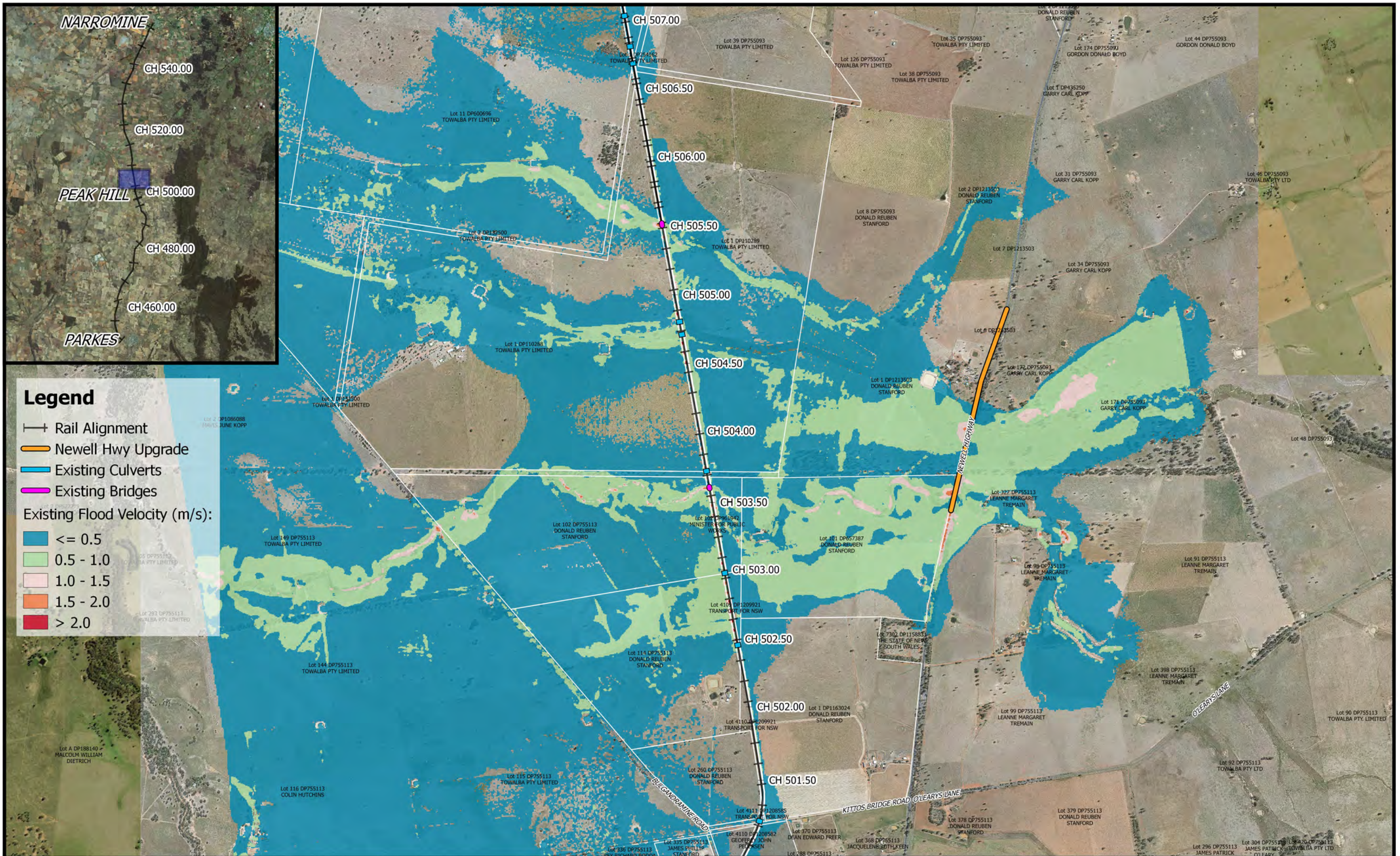
	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Date: 9/7/2018 Rev: A Prepared By: WhiteleyD	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V11 1% AEP Existing Flood Velocity - CH 492.00
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	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V12 1% AEP Existing Flood Velocity - CH 495.00</p>
	Rev: A			
	Prepared By: WhiteleyD			



	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p align="right">Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure EX1V13 1% AEP Existing Flood Velocity - CH 500.00</p>
	Rev: A			
	Prepared By: WhiteleyD			



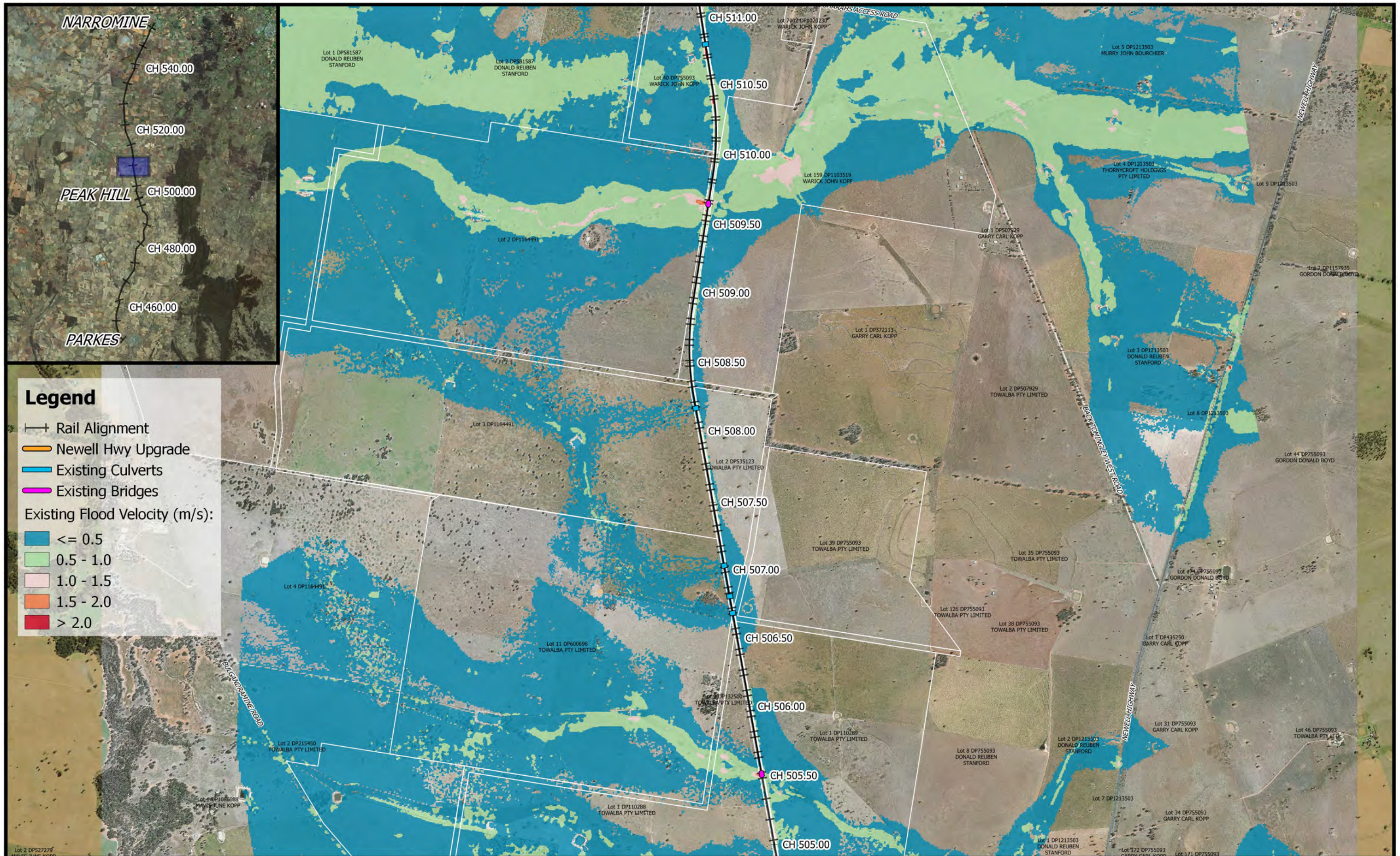
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	<p style="text-align: center;">Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p style="text-align: center;">Figure EX1V14 1% AEP Existing Flood Velocity - CH 505.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



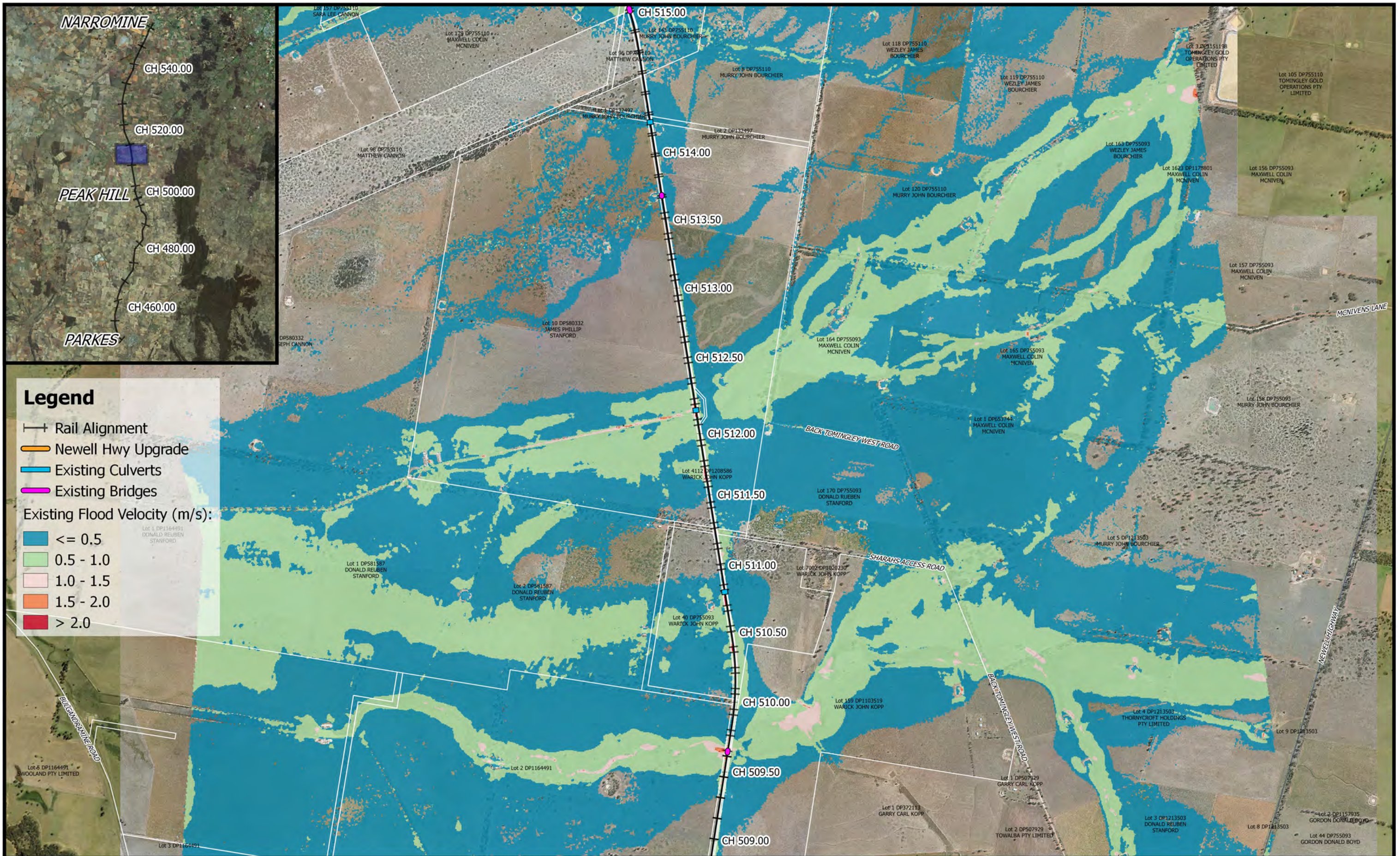
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: ≤ 0.5
- Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V15 <i>1% AEP Existing Flood Velocity - CH 510.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



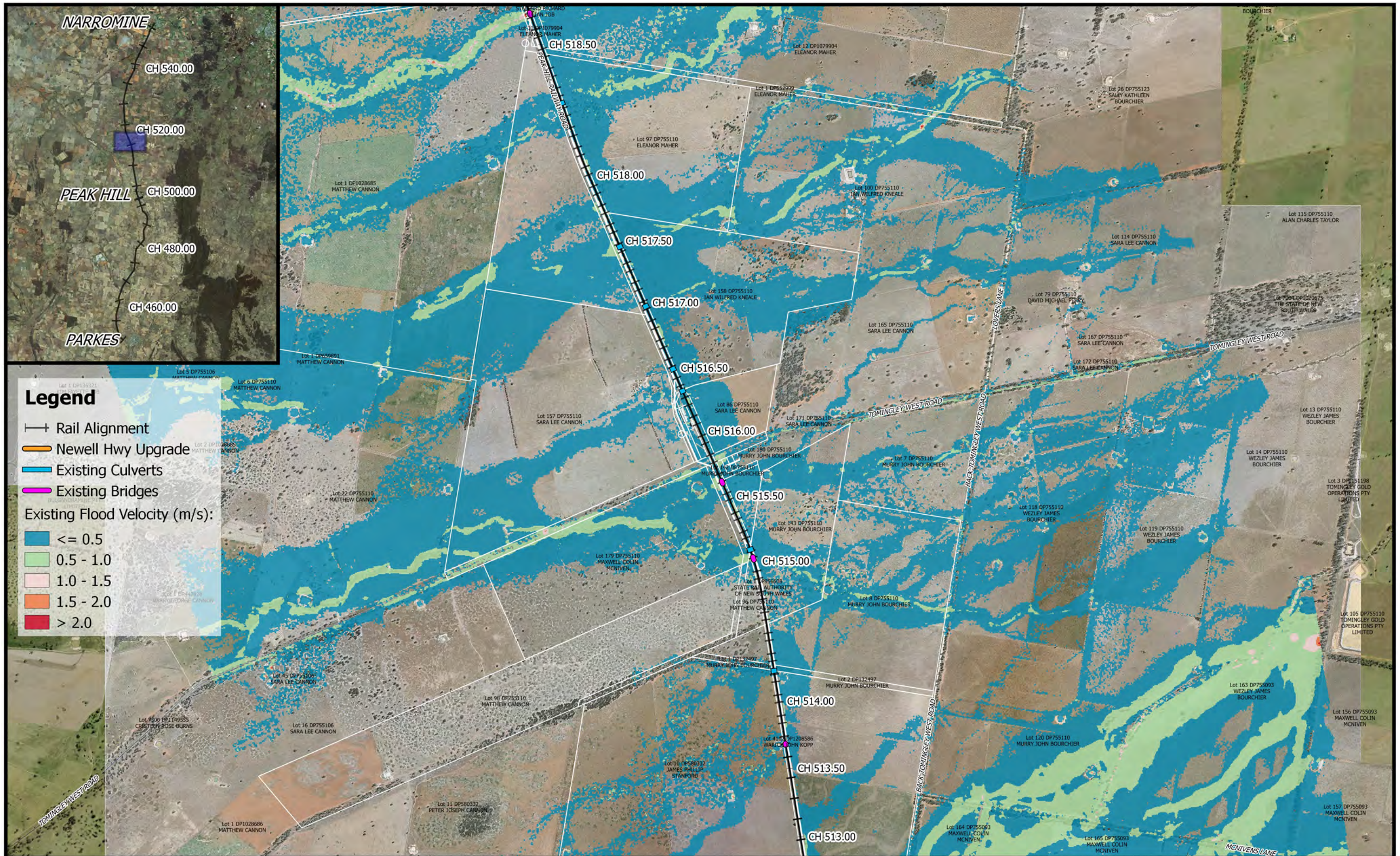
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

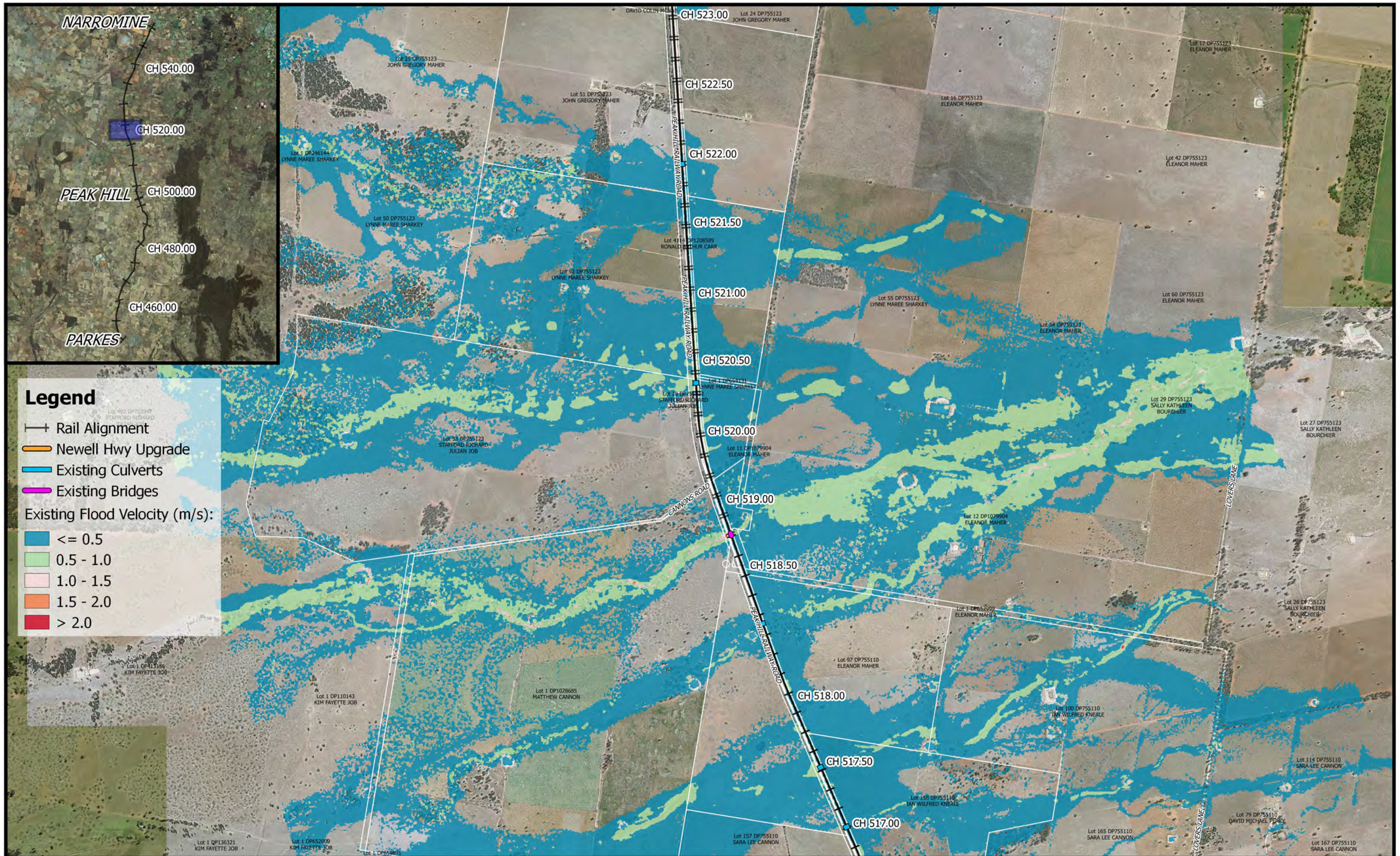
Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V16 <i>1% AEP Existing Flood Velocity - CH 512.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p>
	<p>Rev: A</p>		<p>Figure EX1V17 1% AEP Existing Flood Velocity - CH 515.00</p>	
	<p>Prepared By: WhiteleyD</p>			



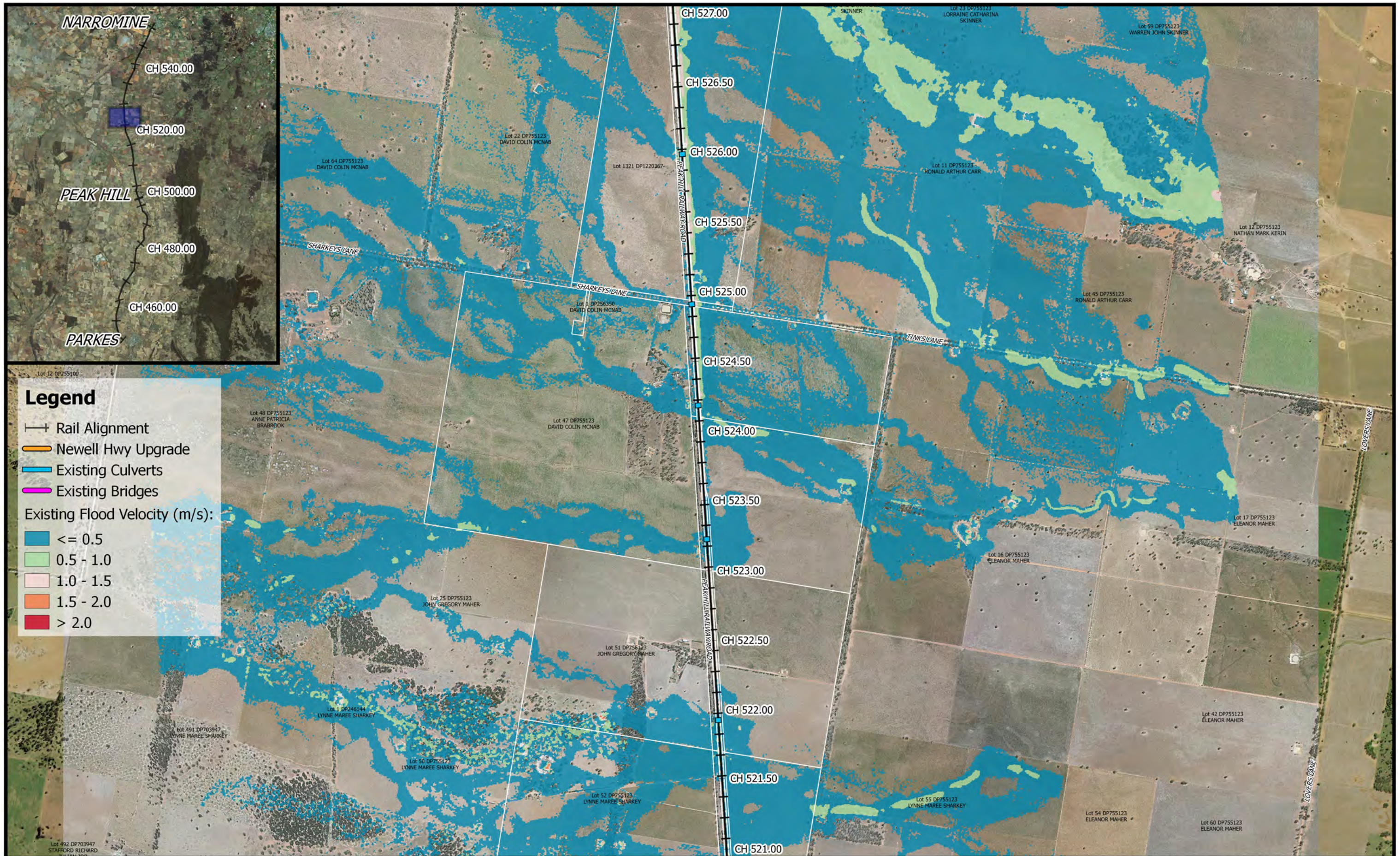
Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

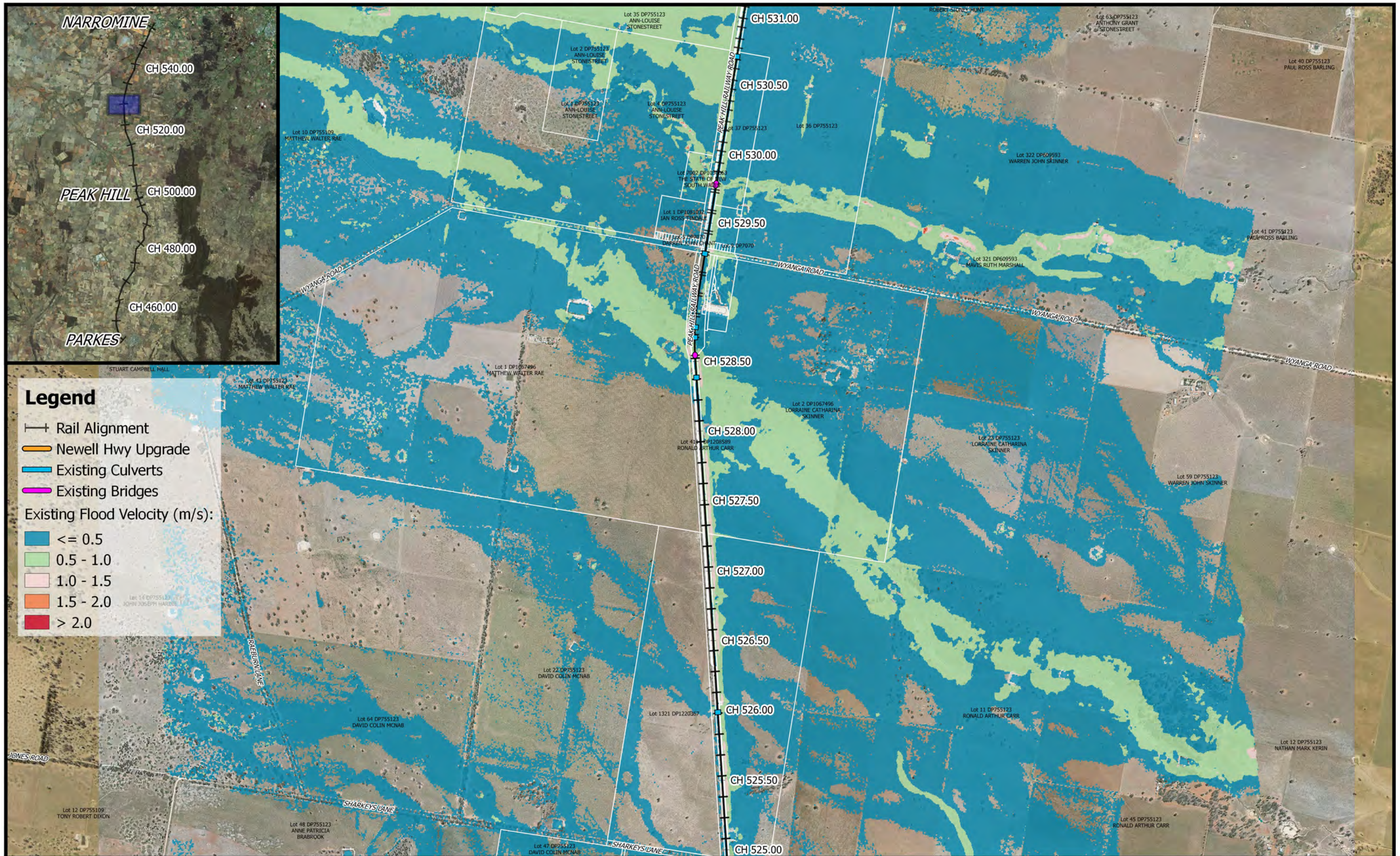
Existing Flood Velocity (m/s):


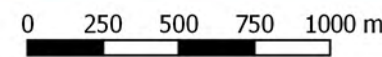

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

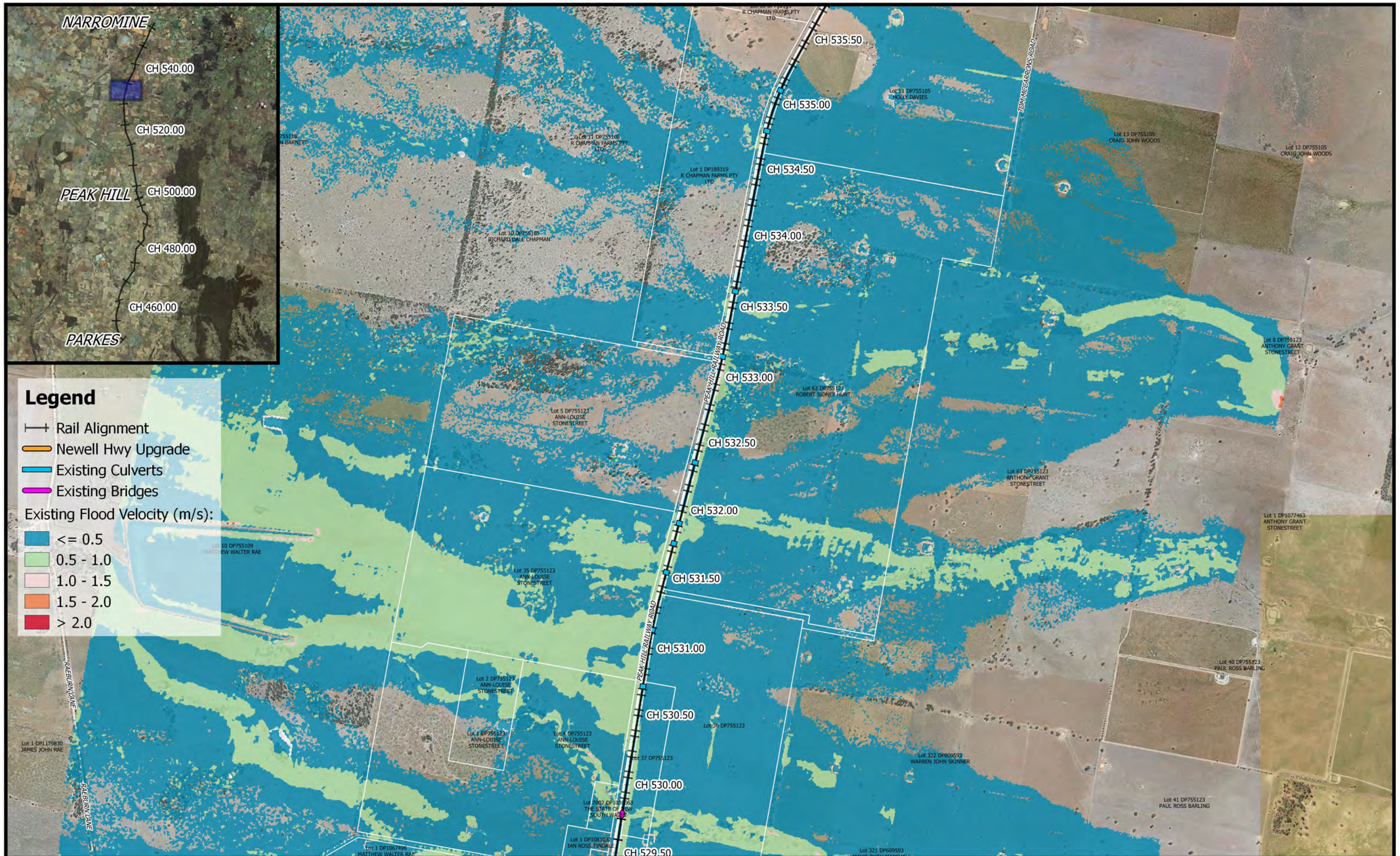
	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V18 1% AEP Existing Flood Velocity - CH 520.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V19 <i>1% AEP Existing Flood Velocity - CH 525.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Date: 9/7/2018 Rev: A Prepared By: WhiteleyD	<p align="center">Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure EX1V20 1% AEP Existing Flood Velocity - CH 530.00</p>
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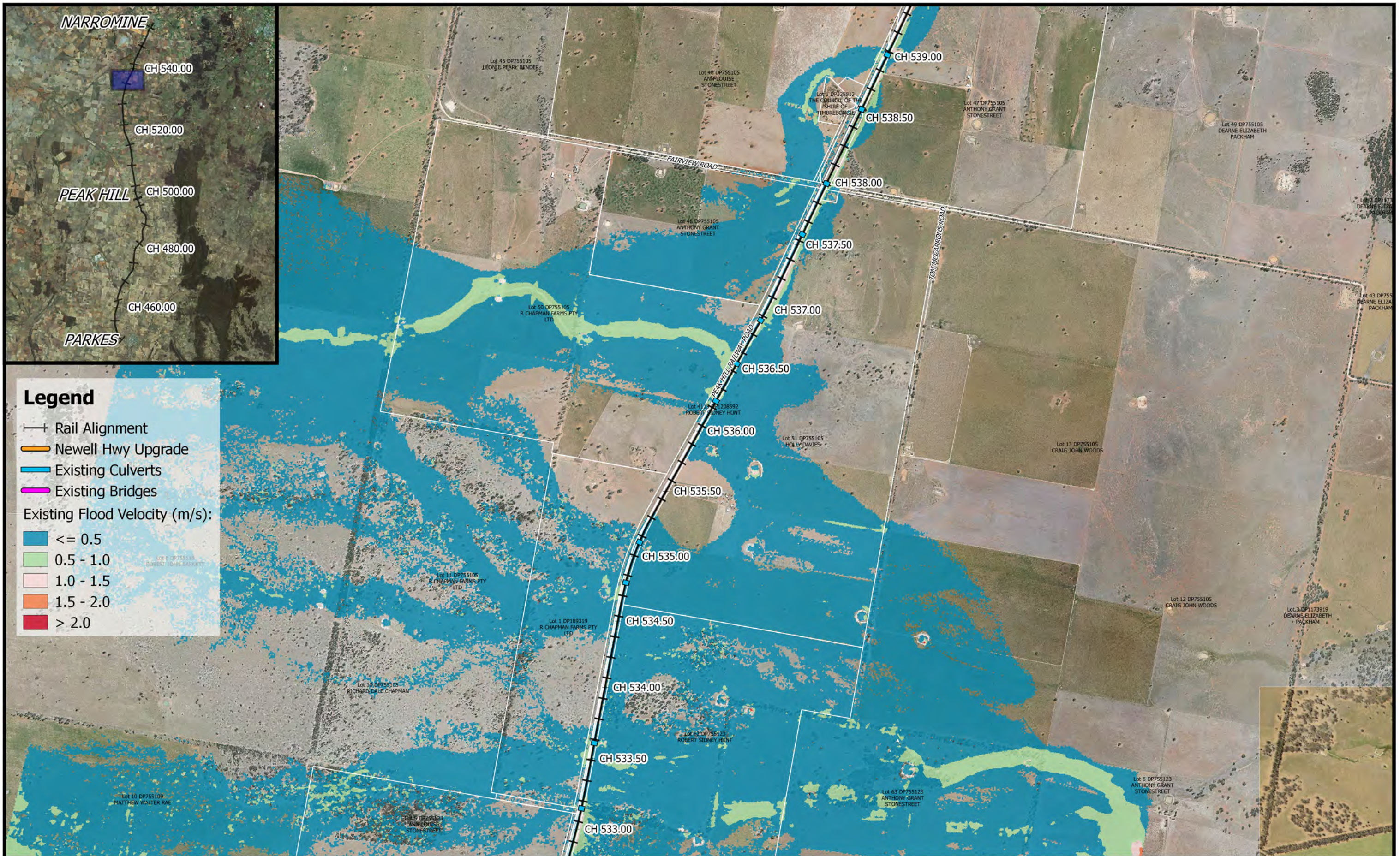
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Light Orange: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V21 <i>1% AEP Existing Flood Velocity - CH 533.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: ≤ 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V22 1% AEP Existing Flood Velocity - CH 535.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



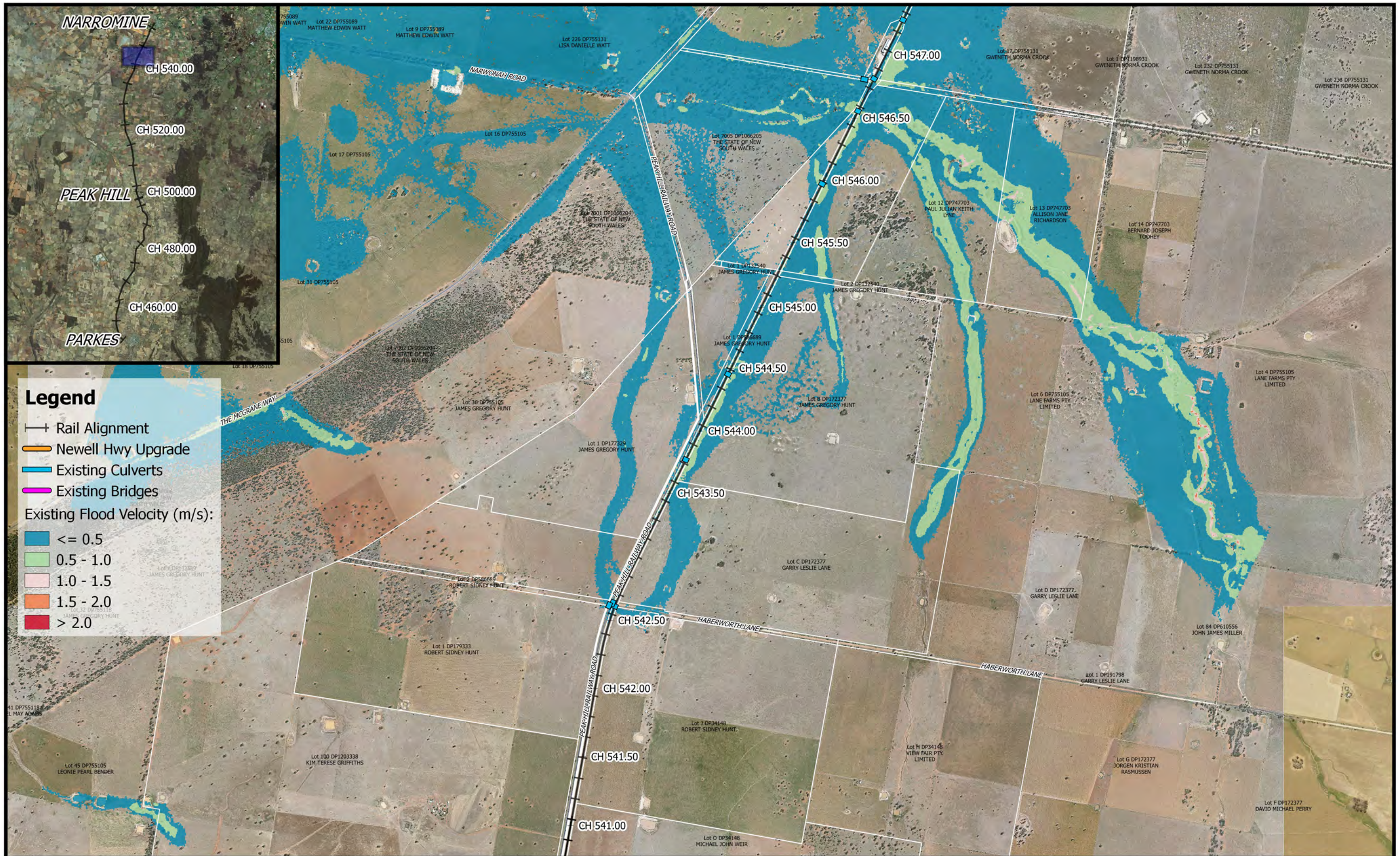
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

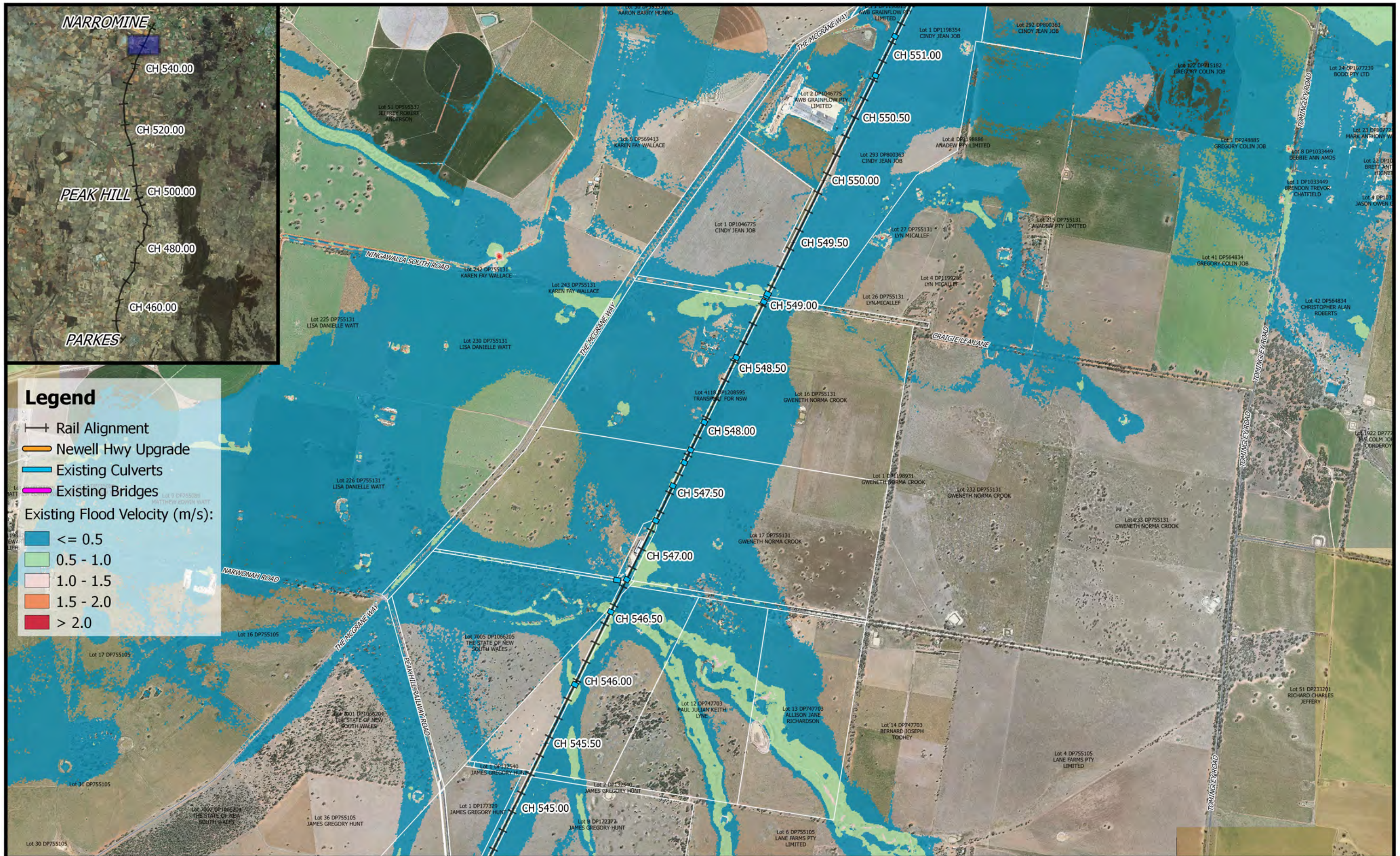
Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX1V23 <i>1% AEP Existing Flood Velocity - CH 540.00</i></p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



			Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V24 <i>1% AEP Existing Flood Velocity - CH 545.00</i>
	1:25,000		Rev: A	
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Prepared By: WhiteleyD	



			Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX1V25 <i>1% AEP Existing Flood Velocity - CH 550.00</i>
	1:25,000		Rev: A	
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Prepared By: WhiteleyD	