

Appendix C

Design Conditions Flood Maps

C1 – Flood Level Change (Afflux) 39% AEP

C2 – Flood Level Change (Afflux) 10% AEP

C3 – Flood Level Change (Afflux) 1% AEP

C4 – Flood Level Change (Afflux) 1% AEP with climate change

C5 – Flood Velocity Change 39% AEP

C6 – Flood Velocity Change 10% AEP

C7 – Flood Velocity Change 1% AEP

C8 – Flood Velocity Change 1% AEP with climate change

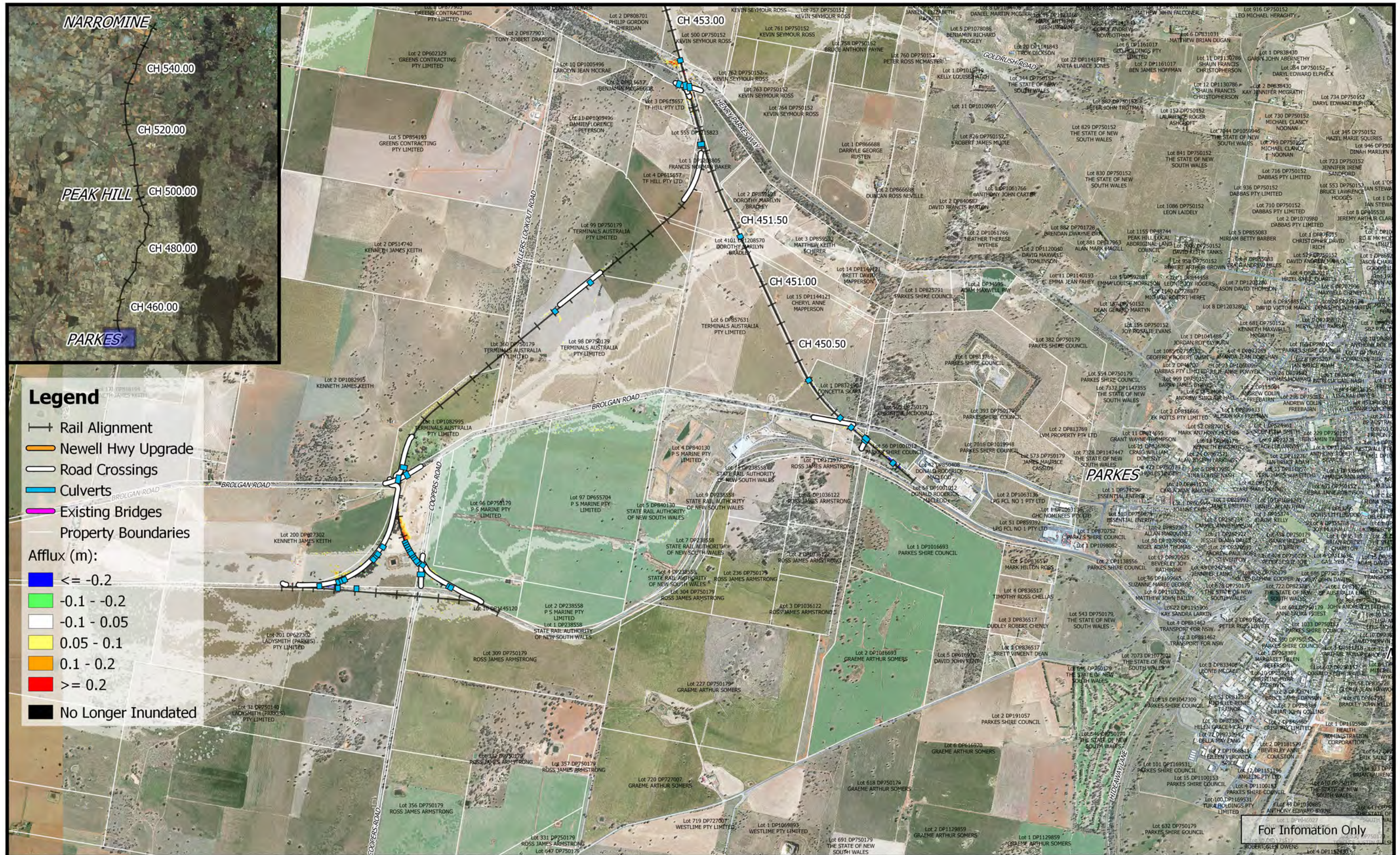
C9 – Flood Duration Change 39% AEP

C10 – Flood Duration Change 10% AEP

C11 – Flood Duration Change 1% AEP

C12 – Flood Duration Change 1% AEP with climate change





			Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A1 39% AEP Flood Afflux - CH 450.00
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only	
	Prepared By: YeohM			

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Legend

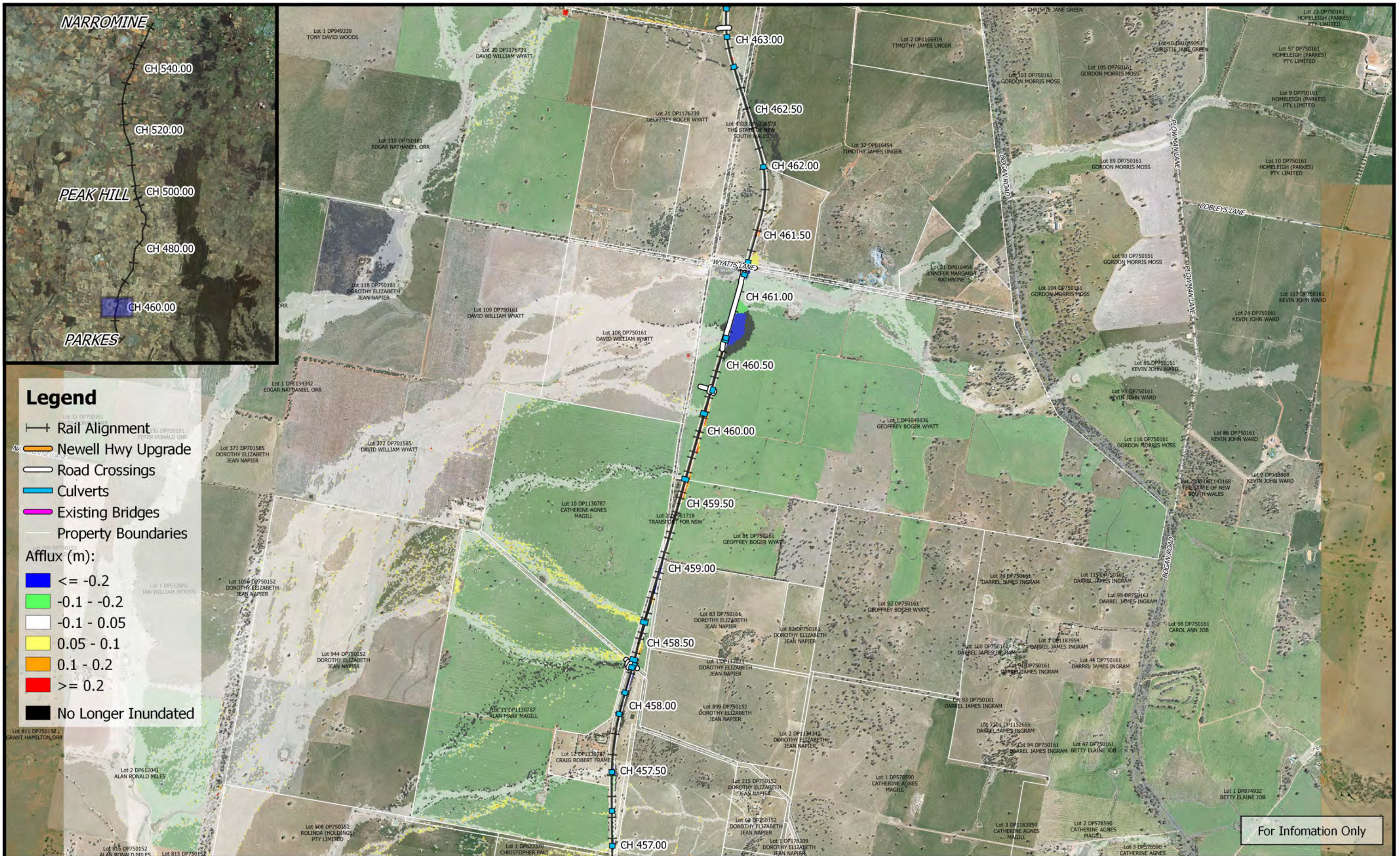
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

- Afflux (m):**
- <= -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - >= 0.2
 - No Longer Inundated

For Information Only

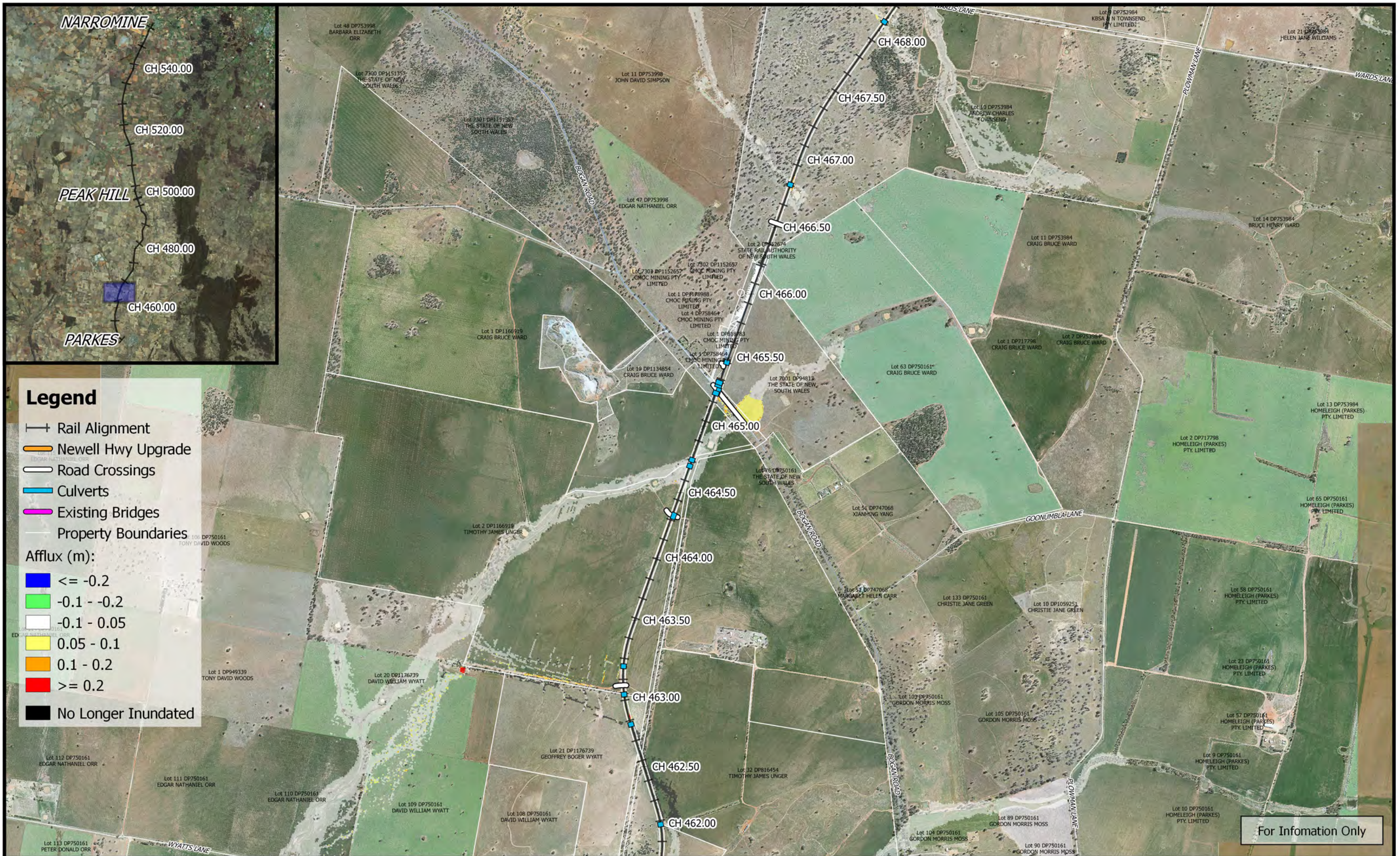
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				<p>Rev: A - For Information Only</p>	<p>Figure DE39A2 39% AEP Flood Afflux - CH 455.00</p>
				<p>Prepared By: YeohM</p>	

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	<p>1:25,000</p>		Date: 15/10/2018	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure DE39A3 39% AEP Flood Afflux - CH 460.00</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: A - For Information Only</p>	
	<p>Prepared By: YeohM</p>			



Legend

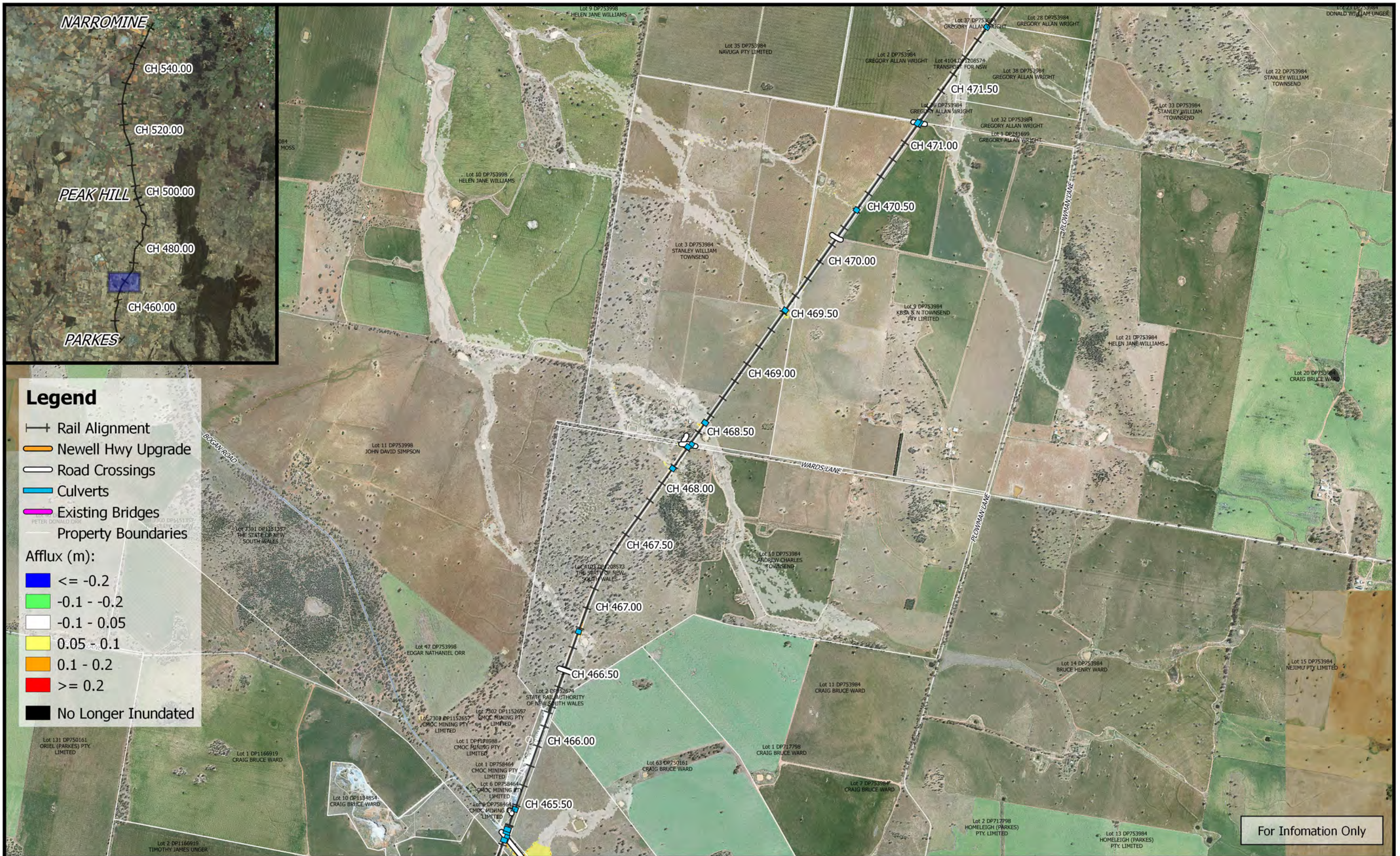
- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- Blue: ≤ -0.2
- Green: $-0.1 - -0.2$
- White: $-0.1 - 0.05$
- Yellow: $0.05 - 0.1$
- Orange: $0.1 - 0.2$
- Red: ≥ 0.2
- Black: No Longer Inundated

For Information Only

	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A4 39% AEP Flood Afflux - CH 465.00</p>
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Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries


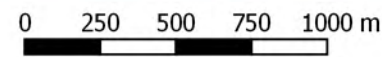

Afflux (m):

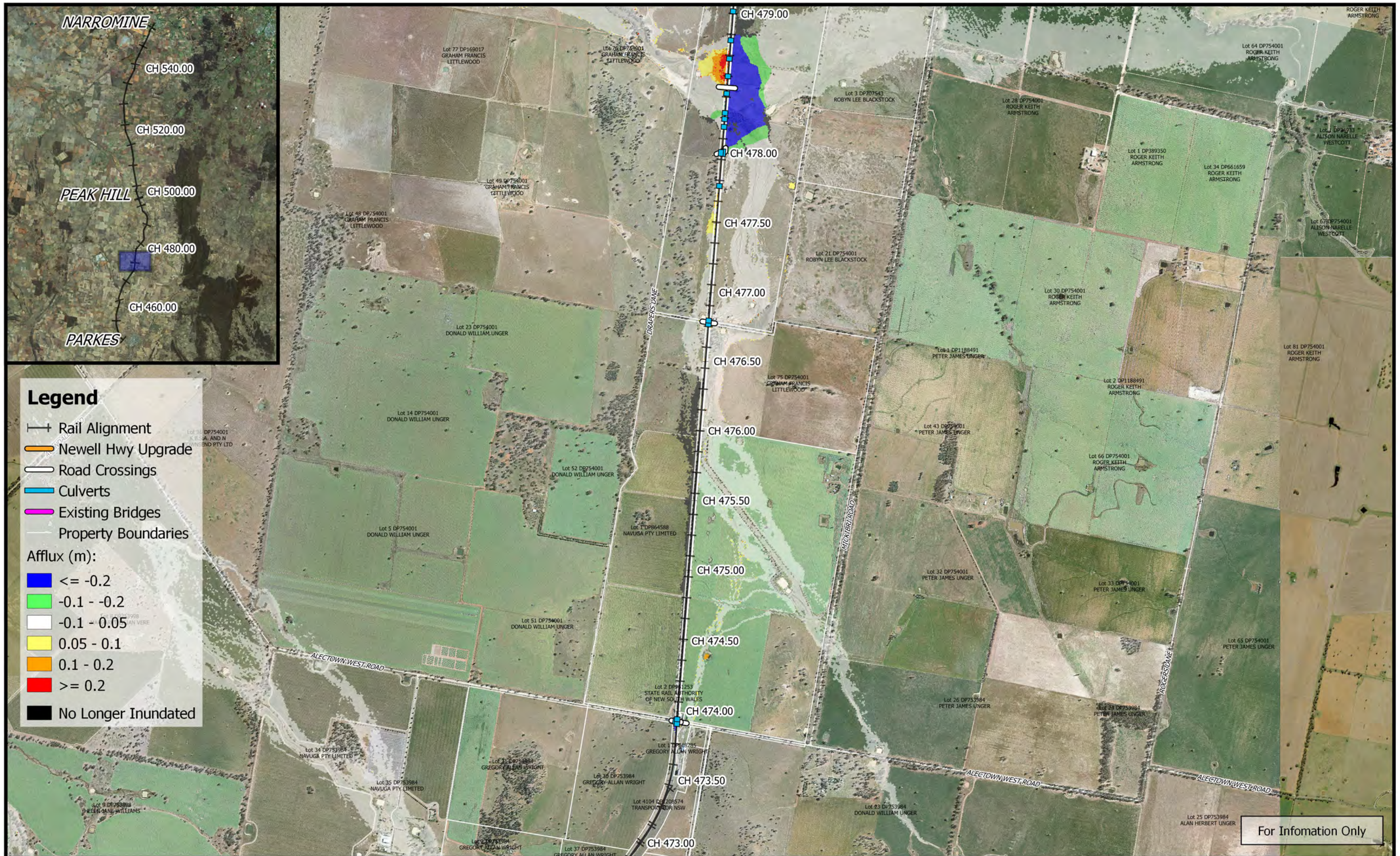
- ≤ -0.2
- $-0.1 - -0.2$
- $-0.1 - 0.05$
- $0.05 - 0.1$
- $0.1 - 0.2$
- ≥ 0.2
- No Longer Inundated

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	 1:25,000	 	Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results
				Rev: A - For Information Only
				Prepared By: YeohM
				Figure DE39A5 39% AEP Flood Afflux - CH 470.00



	 1:25,000		Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A6 39% AEP Flood Afflux - CH 472.00
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3	Rev: A - For Information Only	Prepared By: YeohM	



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

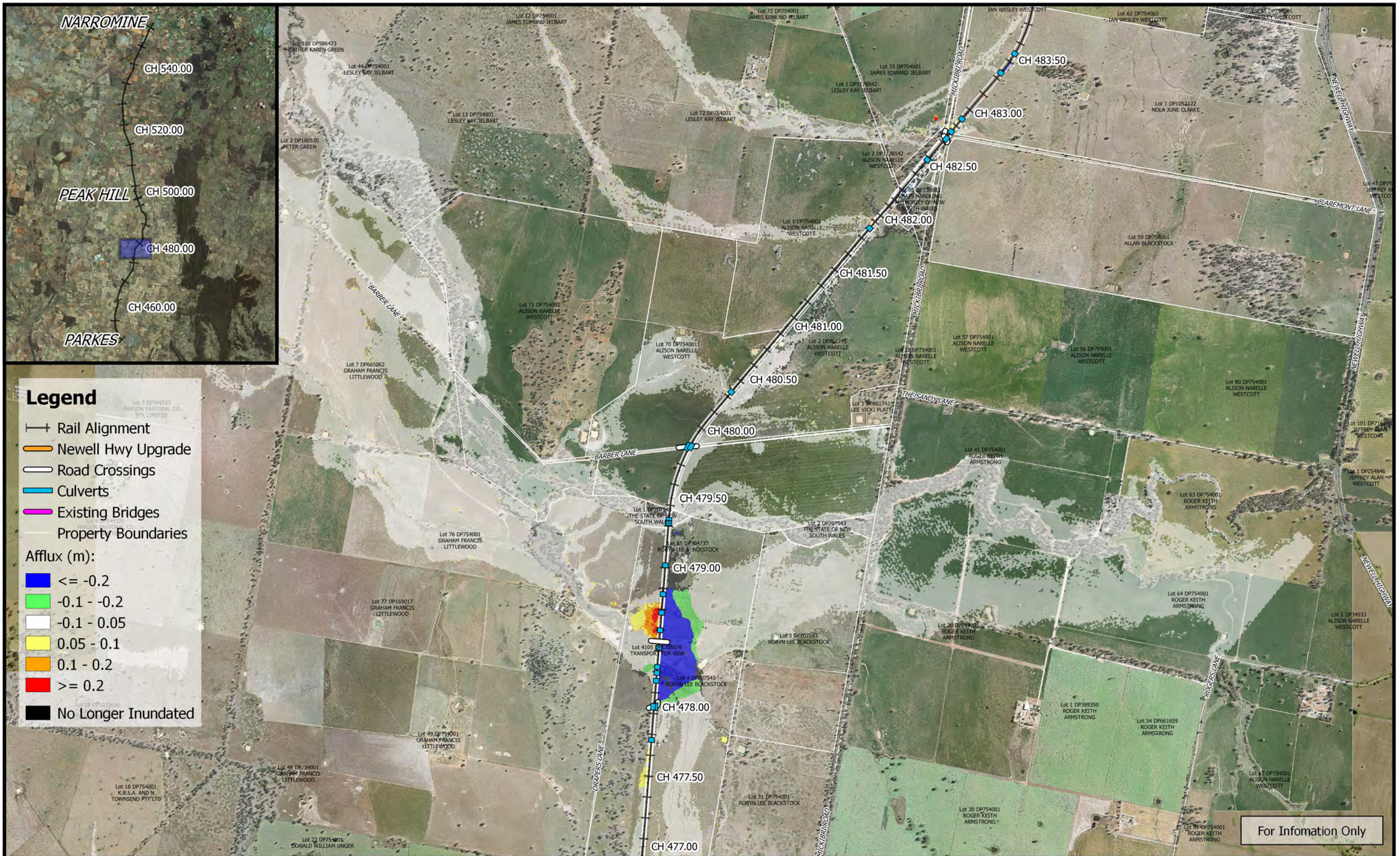
Afflux (m):

- ≤ -0.2
- 0.1 - -0.2
- 0.1 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- ≥ 0.2
- No Longer Inundated

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	 1:25,000		Date: 15/10/2018	<p style="margin: 0;">Inland Rail - Parkes to Narromine</p> <p style="margin: 0;">IFC - Cross Drainage Flood Impact Assessment Results</p> <p style="margin: 0;">Figure DE39A7</p> <p style="margin: 0;">39% AEP Flood Afflux - CH 475.00</p>	
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only		
			Prepared By: YeohM		

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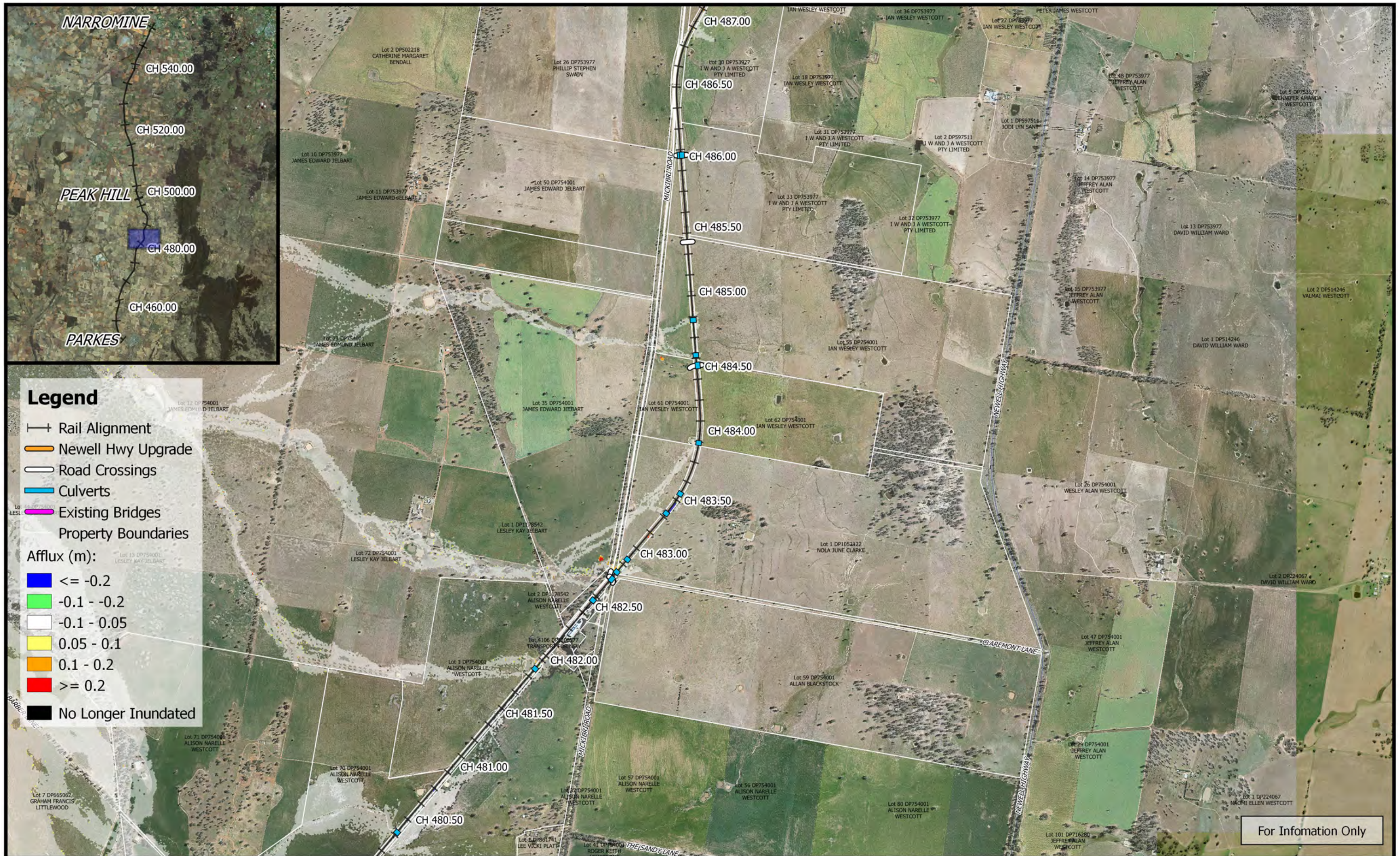
Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries


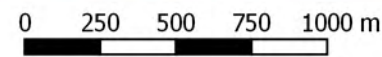

- Afflux (m):**
- ≤ -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - ≥ 0.2
 - No Longer Inundated

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	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	 	Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine</p> <p>IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A8</p> <p>39% AEP Flood Afflux - CH 480.00</p>	
	Coordinate system: GDA 1994 MGA Zone 55		Rev: A - For Information Only		
	Aerial Source: NSW Six Map		Prepared By: YeohM		
Scale ratio correct when printed at A3					



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	 1:25,000		Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A9 39% AEP Flood Afflux - CH 485.00
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only	
	Prepared By: YeohM			

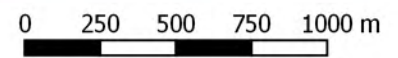


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

- Afflux (m):
- ≤ -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - ≥ 0.2
 - No Longer Inundated

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Coordinate system: GDA 1994 MGA Zone 55
 Aerial Source: NSW Six Map
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Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure DE39A10
 39% AEP Flood Afflux - CH 490.00



Legend

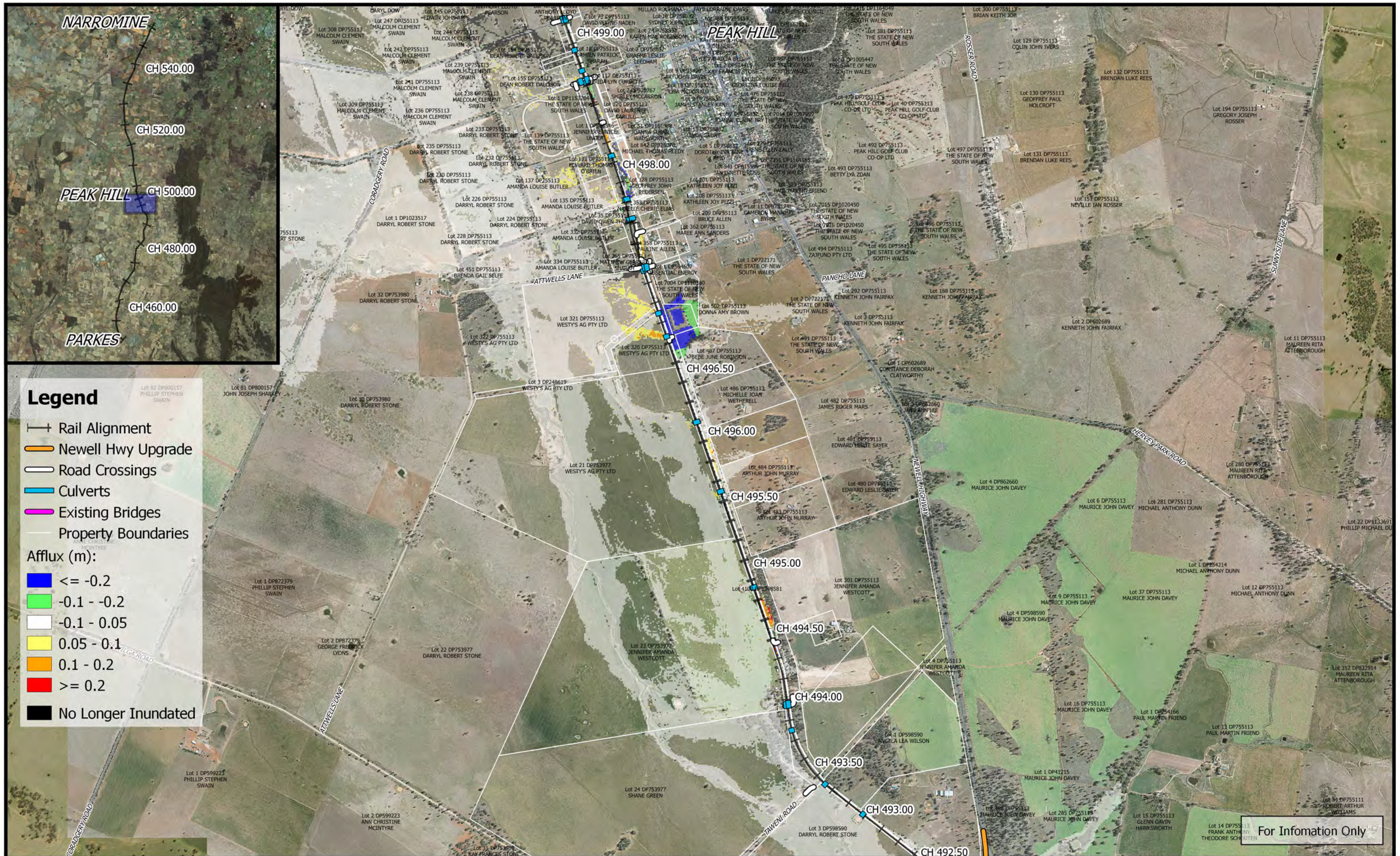
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- <= -0.2
- 0.1 - -0.2
- 0.1 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- >= 0.2
- No Longer Inundated

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	 1:25,000		Date: 15/10/2018	<p style="margin: 0;">Inland Rail - Parkes to Narromine</p> <p style="margin: 0;">IFC - Cross Drainage Flood Impact Assessment Results</p> <p style="margin: 0;">Figure DE39A11</p> <p style="margin: 0;">39% AEP Flood Afflux - CH 492.00</p>	
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only		
			Prepared By: YeohM		



Legend

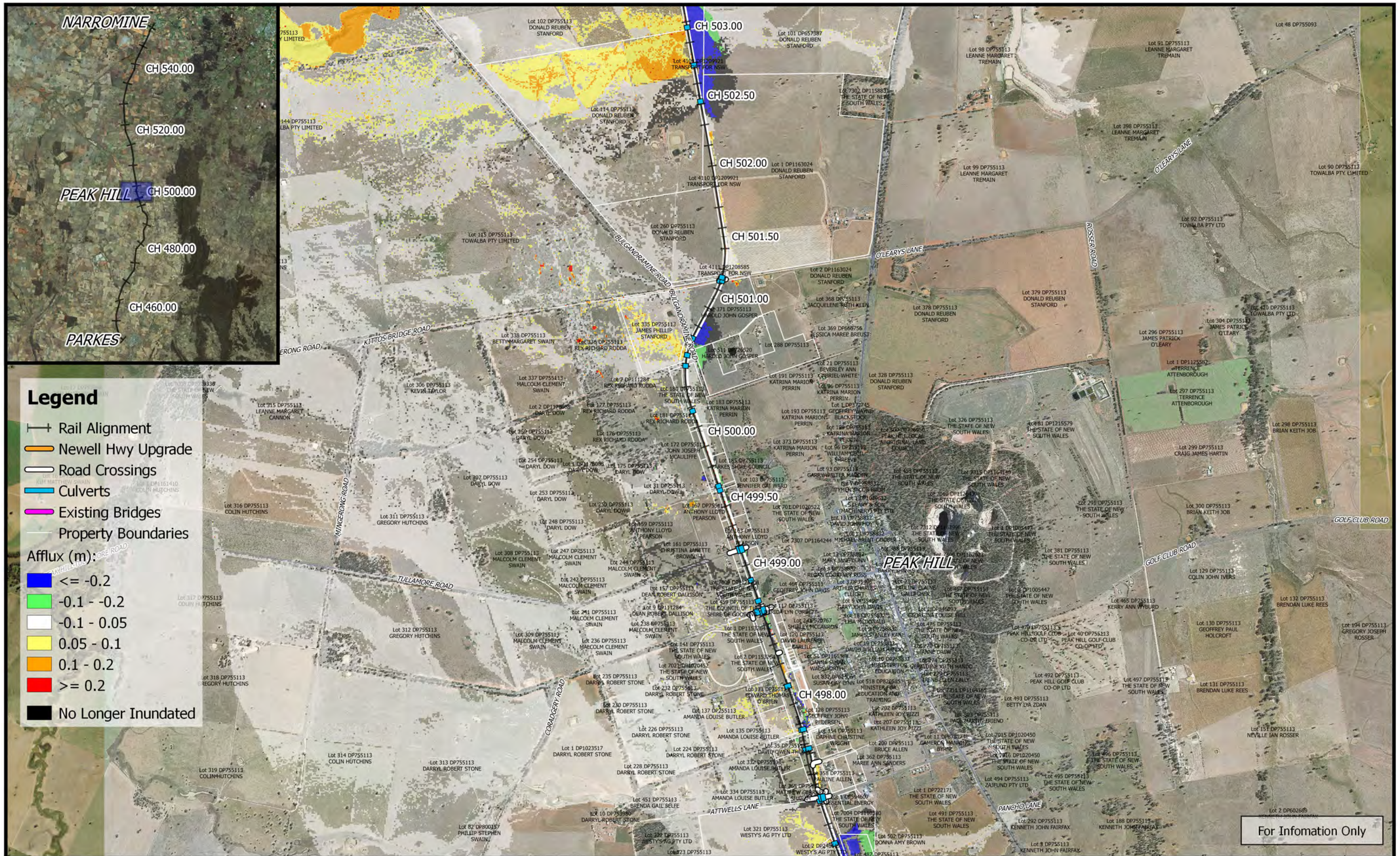
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

- Afflux (m):**
- ≤ -0.2
 - $-0.1 - -0.2$
 - $-0.1 - 0.05$
 - $0.05 - 0.1$
 - $0.1 - 0.2$
 - ≥ 0.2
 - No Longer Inundated

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	<p>1:25,000</p>		<p>Date: 15/10/2018</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A12 39% AEP Flood Afflux - CH 495.00</p>
			<p>Rev: A - For Information Only</p>	
			<p>Prepared By: YeohM</p>	

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Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

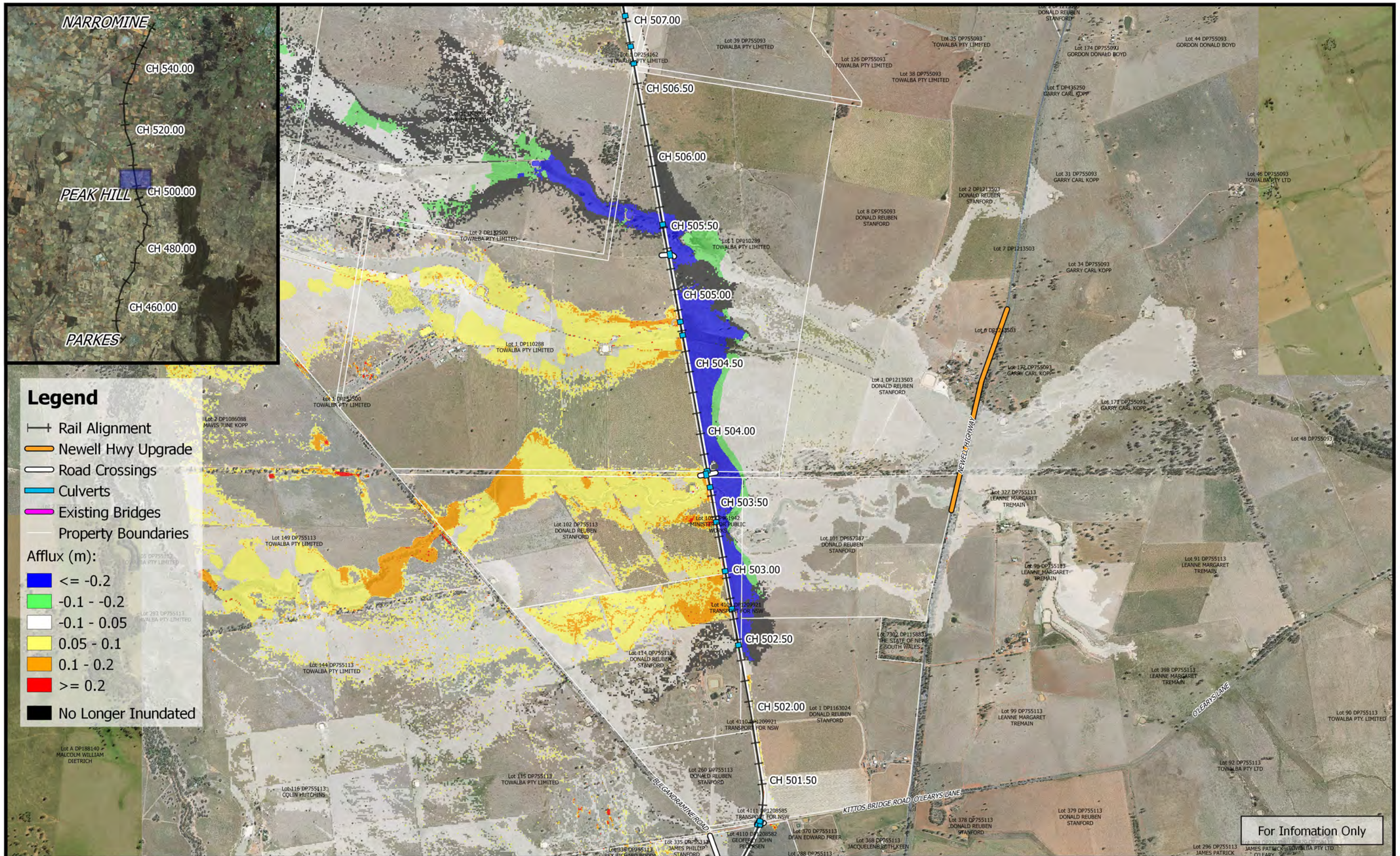
Afflux (m):

- ≤ -0.2
- 0.1 - -0.2
- 0.1 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- ≥ 0.2
- No Longer Inundated



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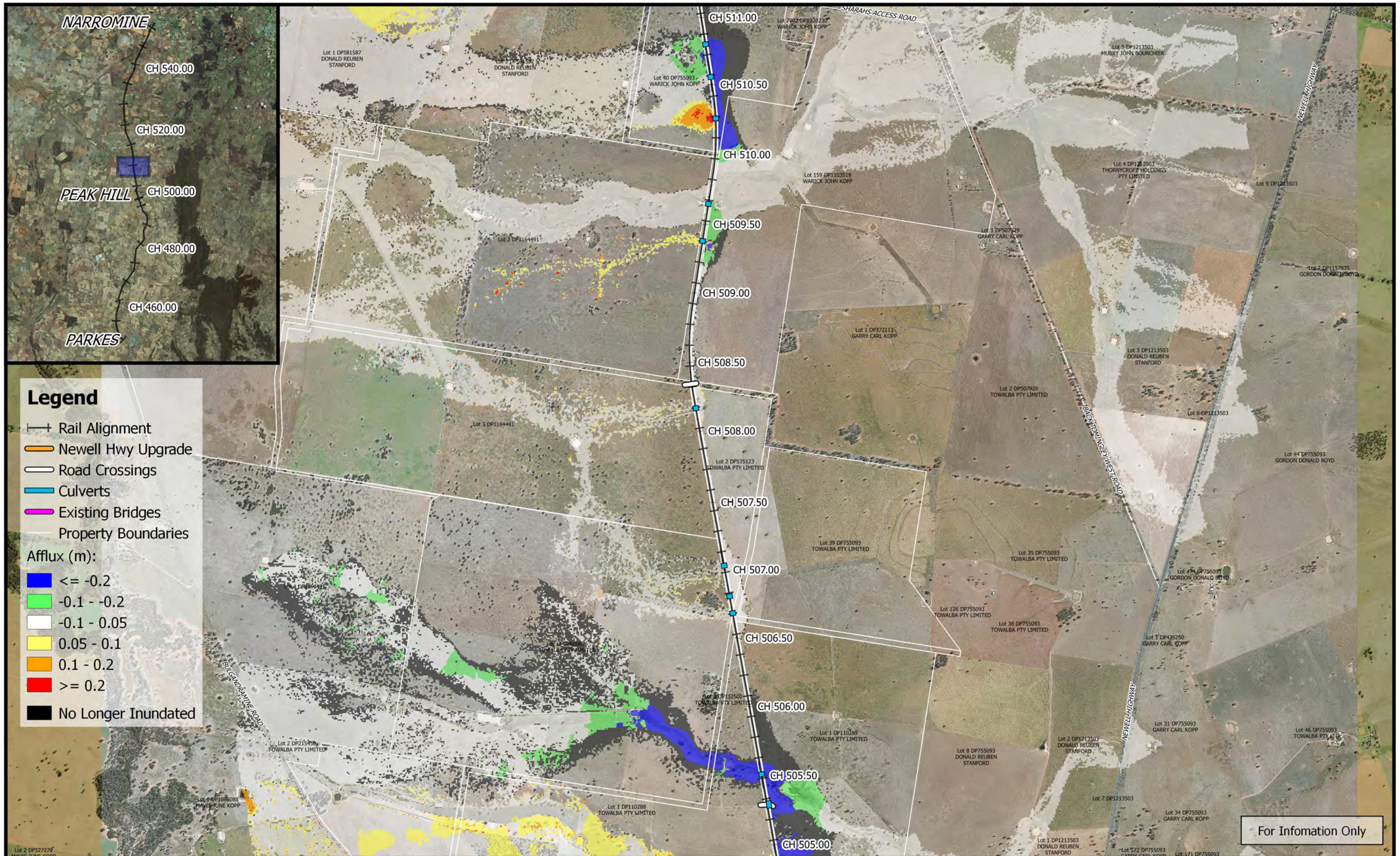
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	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 15/10/2018</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A14 39% AEP Flood Afflux - CH 505.00</p>
	<p>Rev: A - For Information Only</p>			
	<p>Prepared By: YeohM</p>			



Legend

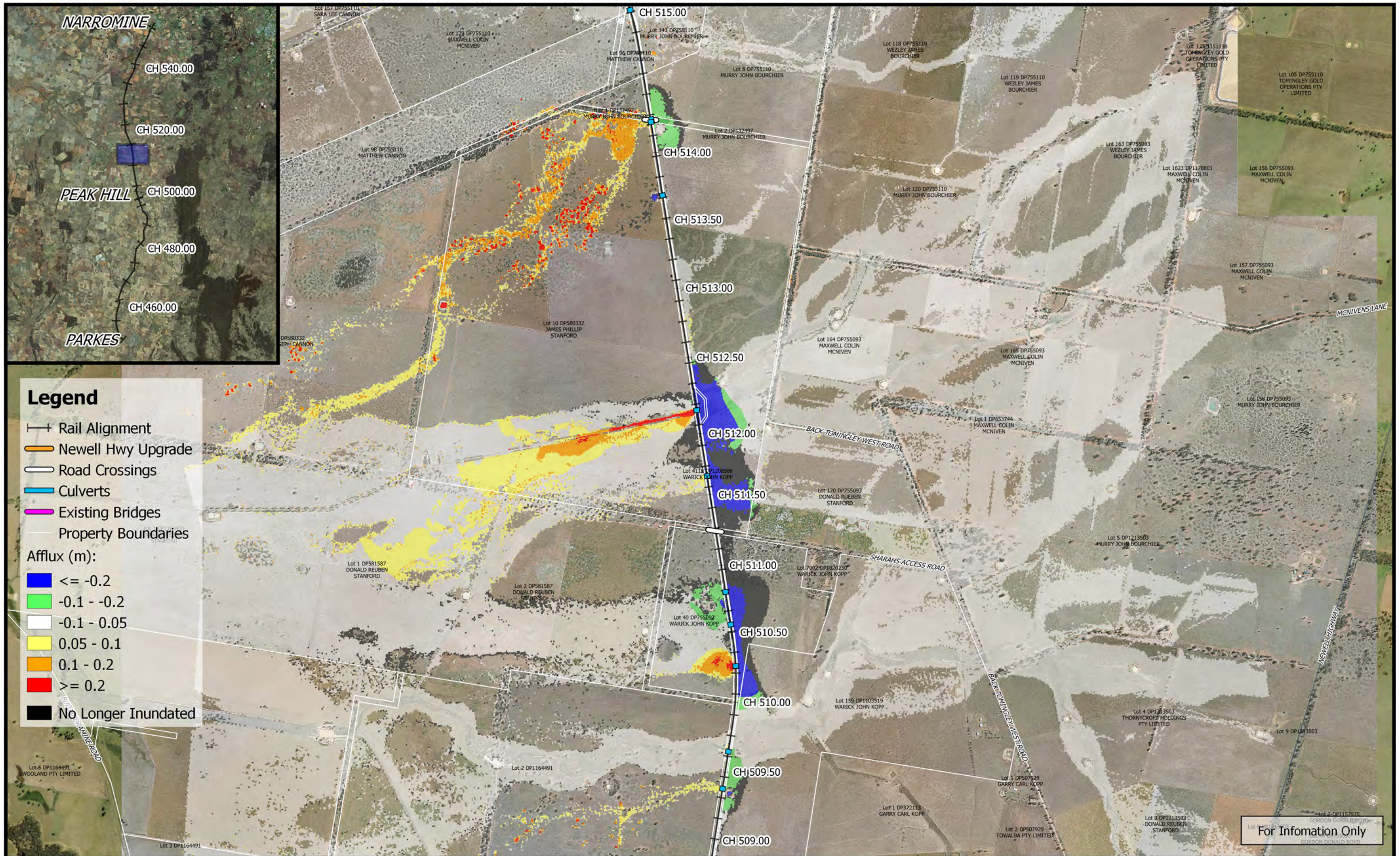
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- ≤ -0.2
- $-0.1 - -0.2$
- $-0.1 - 0.05$
- $0.05 - 0.1$
- $0.1 - 0.2$
- ≥ 0.2
- No Longer Inundated

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	 1:25,000		Date: 15/10/2018 Rev: A - For Information Only Prepared By: YeohM	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A15 <i>39% AEP Flood Afflux - CH 510.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3			



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

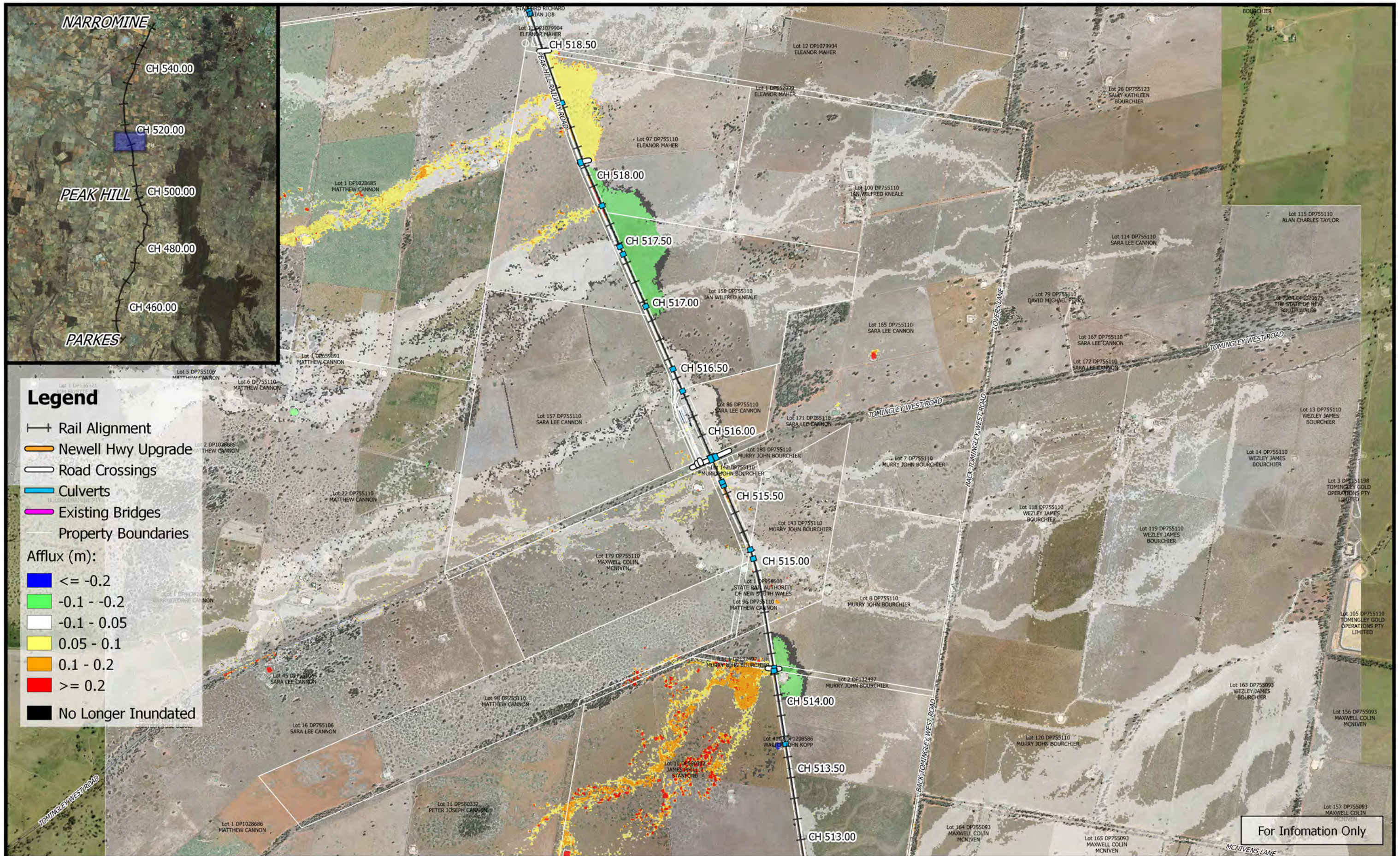
Afflux (m):

- Blue: ≤ -0.2
- Green: $-0.1 - -0.2$
- White: $-0.1 - 0.05$
- Yellow: $0.05 - 0.1$
- Orange: $0.1 - 0.2$
- Red: ≥ 0.2
- Black: No Longer Inundated

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	<p>1:25,000</p>		<p>Date: 15/10/2018</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
				<p>Figure DE39A16 39% AEP Flood Afflux - CH 512.00</p>
		<p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: A - For Information Only</p>
			<p>Prepared By: YeohM</p>	

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Legend

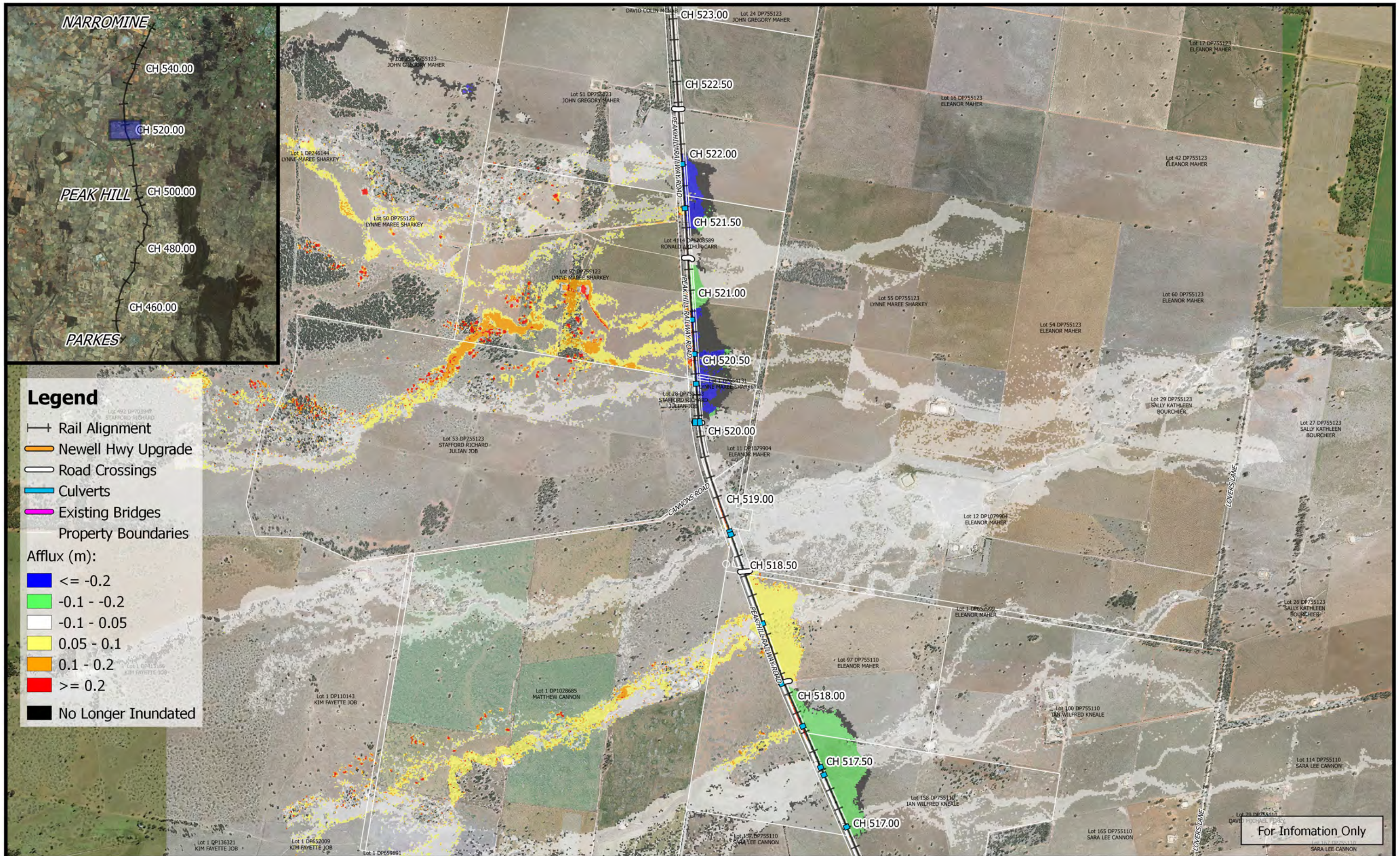
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- ≤ -0.2
- 0.1 - -0.2
- 0.1 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- ≥ 0.2
- No Longer Inundated

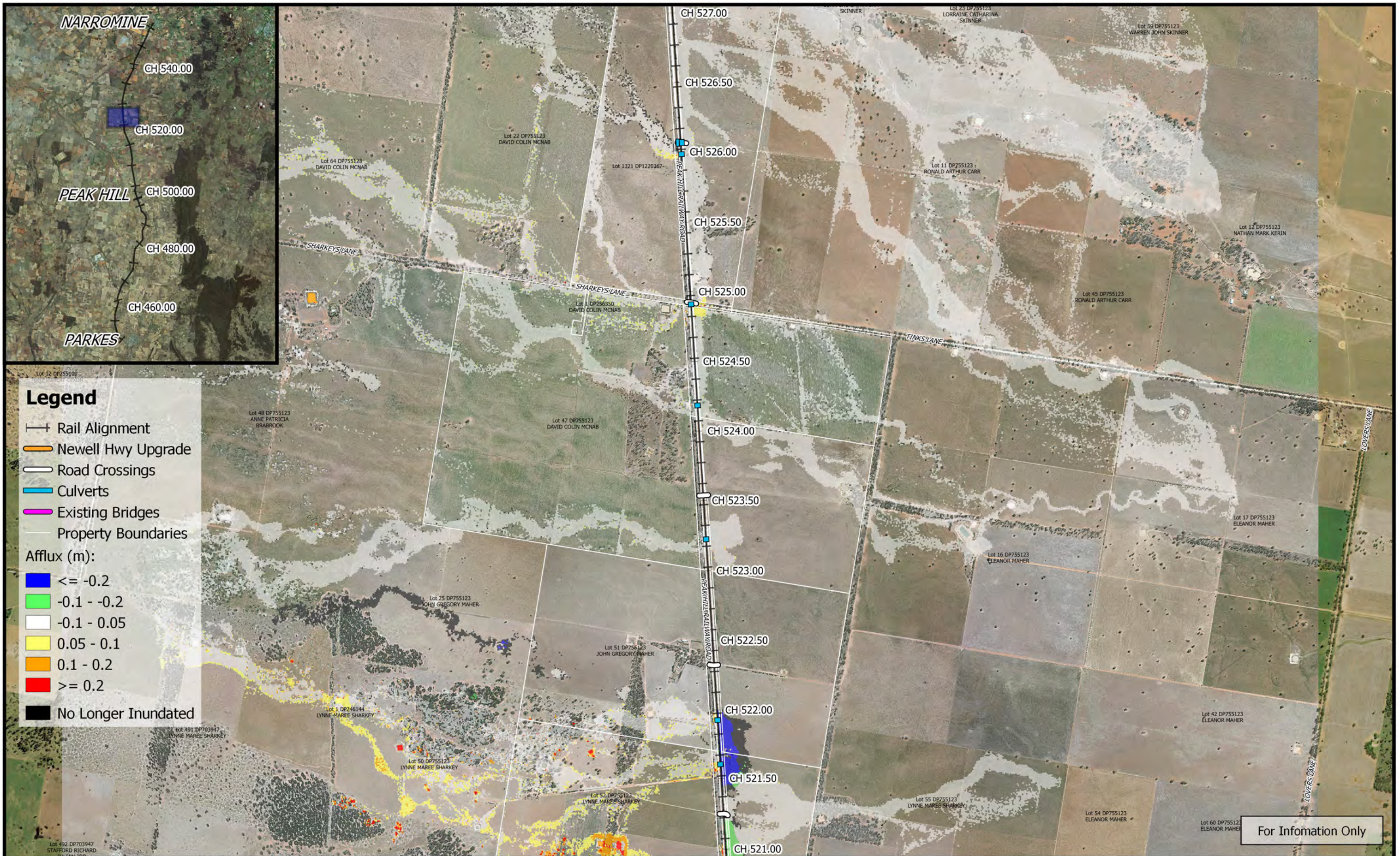
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	 1:25,000		Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A17 39% AEP Flood Afflux - CH 515.00
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only	
	Prepared By: YeohM			



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	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 15/10/2018	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure DE39A18 39% AEP Flood Afflux - CH 520.00</p>
			Rev: A - For Information Only	
			Prepared By: YeohM	

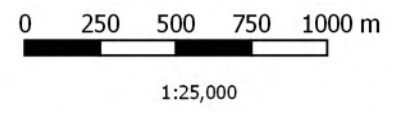


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

- Afflux (m):
- ≤ -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - ≥ 0.2
 - No Longer Inundated

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Coordinate system: GDA 1994 MGA Zone 55
 Aerial Source: NSW Six Map
 Scale ratio correct when printed at A3

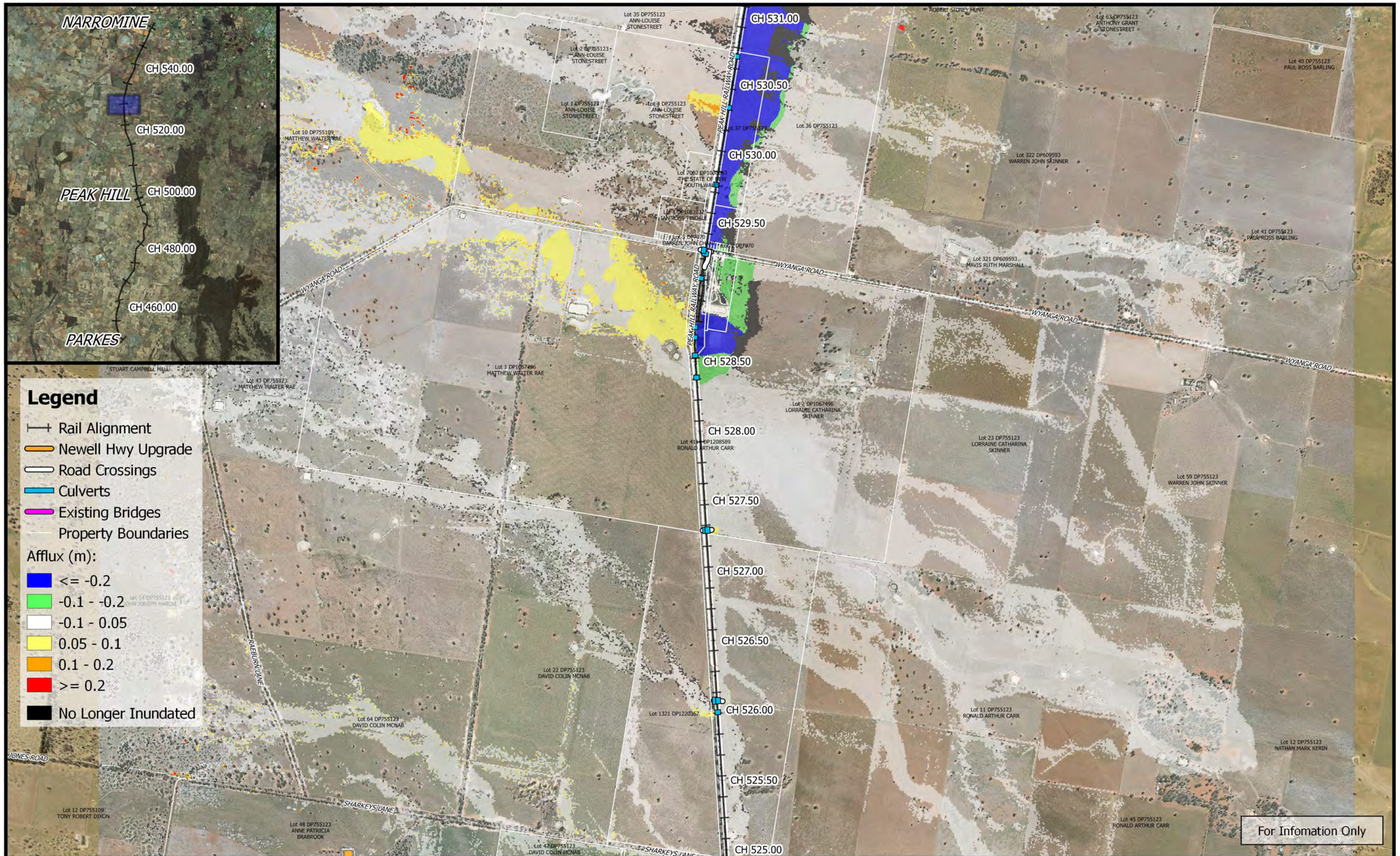


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Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure DE39A19
 39% AEP Flood Afflux - CH 525.00

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Legend

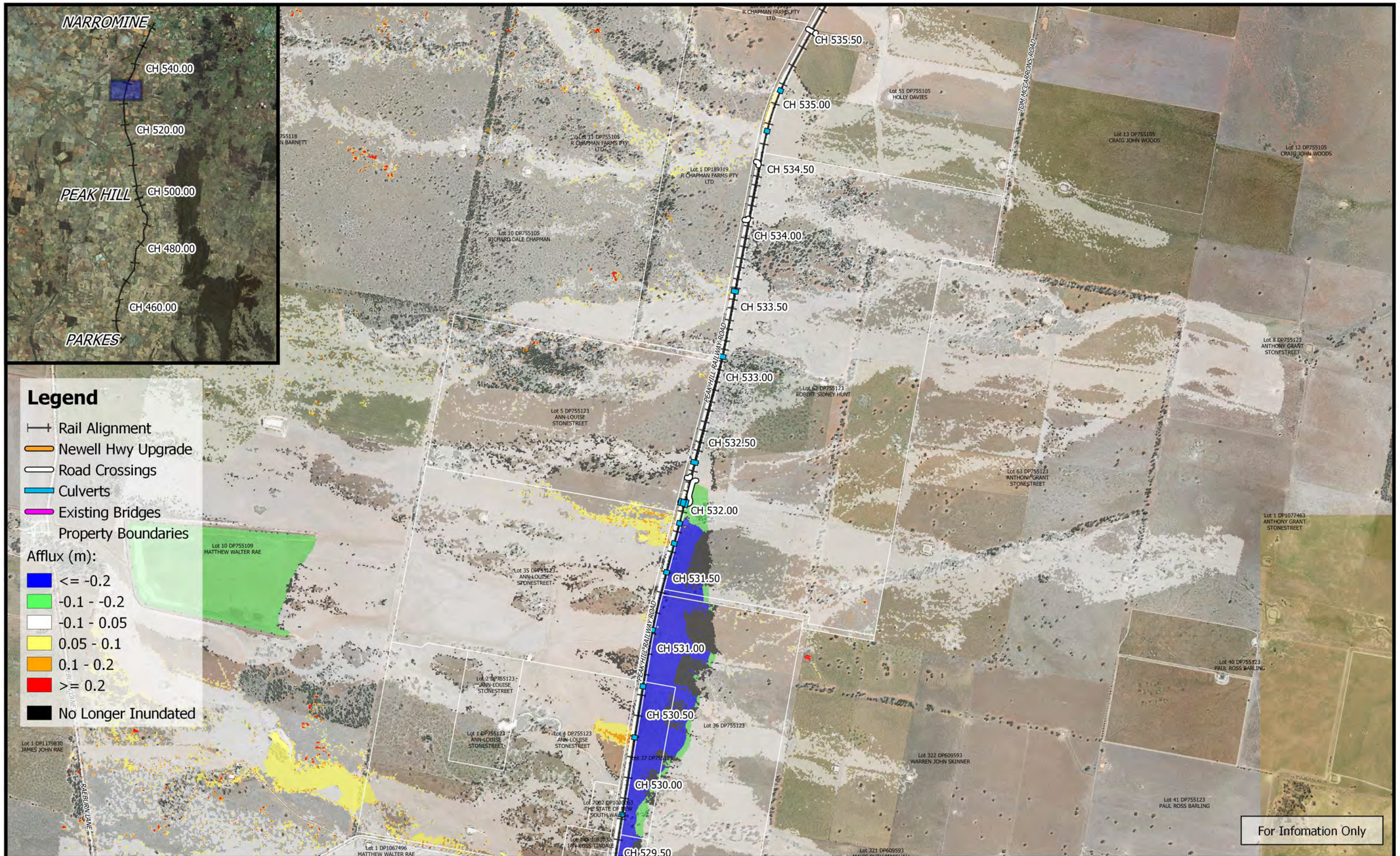
- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- Blue: ≤ -0.2
- Green: $-0.1 - -0.2$
- White: $-0.1 - 0.05$
- Yellow: $0.05 - 0.1$
- Orange: $0.1 - 0.2$
- Red: ≥ 0.2
- Black: No Longer Inundated

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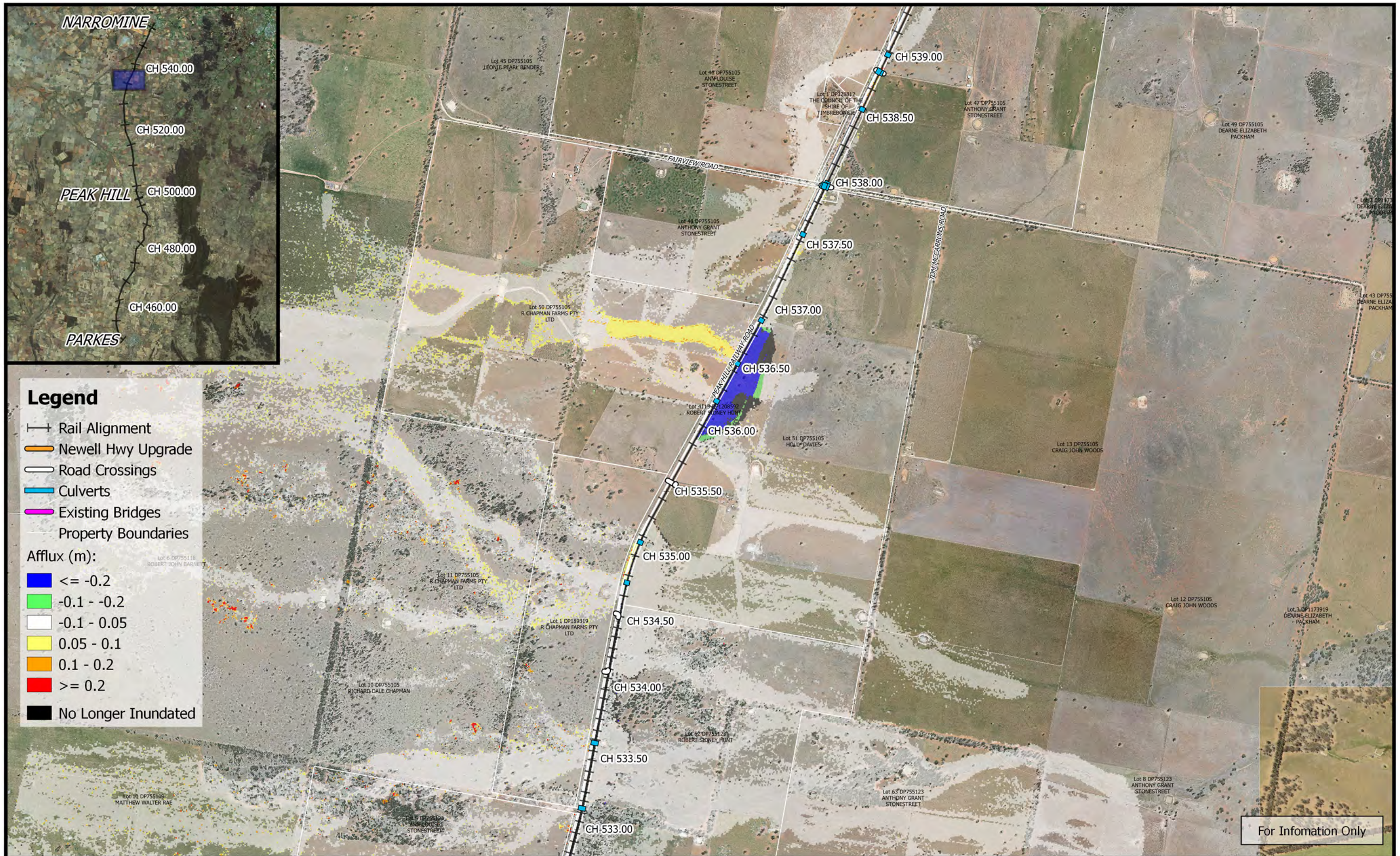
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	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only		
			Prepared By: YeohM		



- Legend**
- +— Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
- Afflux (m):
- Blue: ≤ -0.2
 - Green: $-0.1 - -0.2$
 - White: $-0.1 - 0.05$
 - Yellow: $0.05 - 0.1$
 - Orange: $0.1 - 0.2$
 - Red: ≥ 0.2
 - Black: No Longer Inundated

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	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 15/10/2018</p> <p>Rev: A - For Information Only</p> <p>Prepared By: YeohM</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A21 39% AEP Flood Afflux - CH 533.00</p>
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Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

- Afflux (m):
- ≤ -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - >= 0.2
 - No Longer Inundated

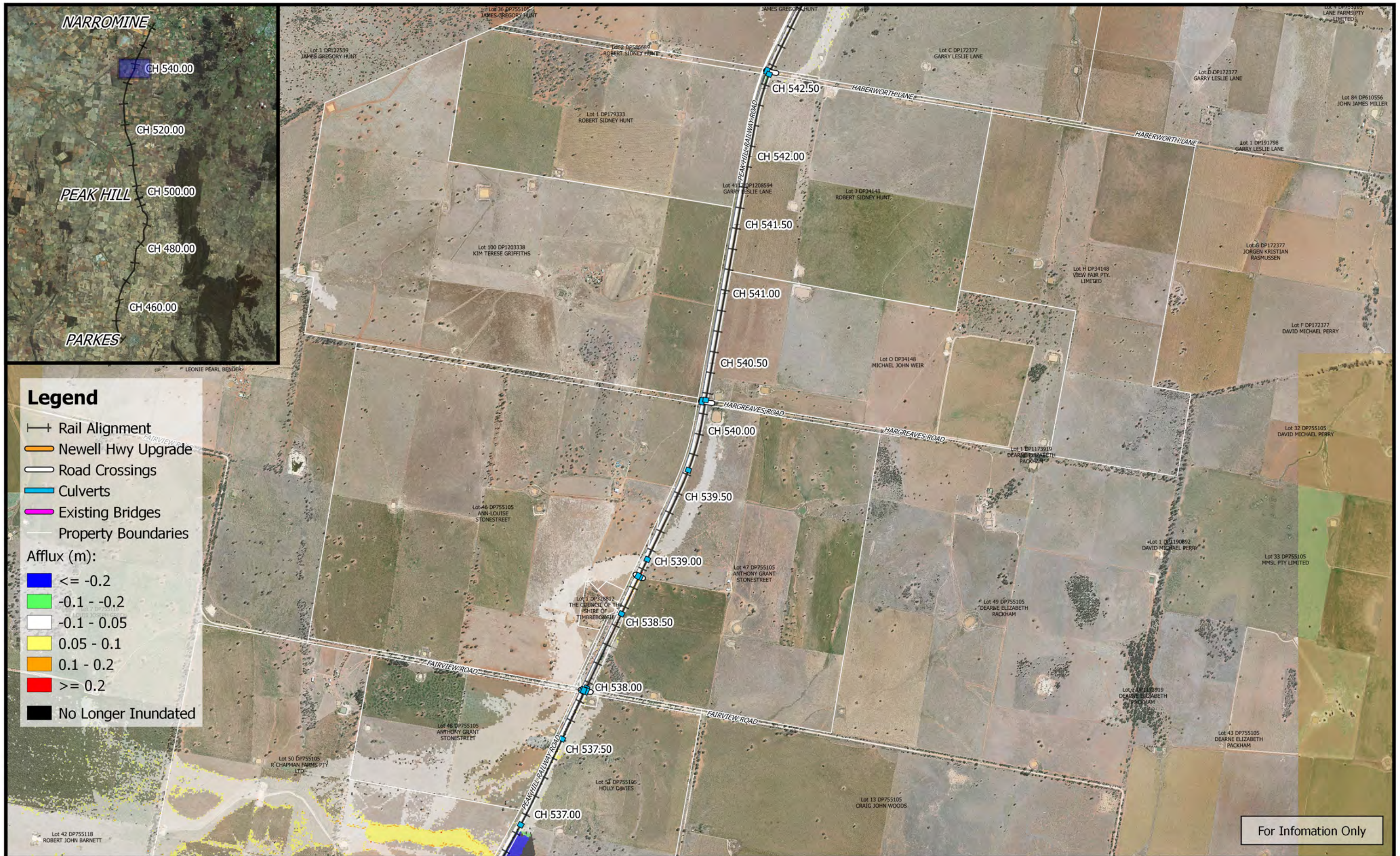
Date: 15/10/2018

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Prepared By: YeohM

Inland Rail - Parkes to Narromine
IFC - Cross Drainage Flood Impact Assessment Results

Figure DE39A22
39% AEP Flood Afflux - CH 535.00



Legend

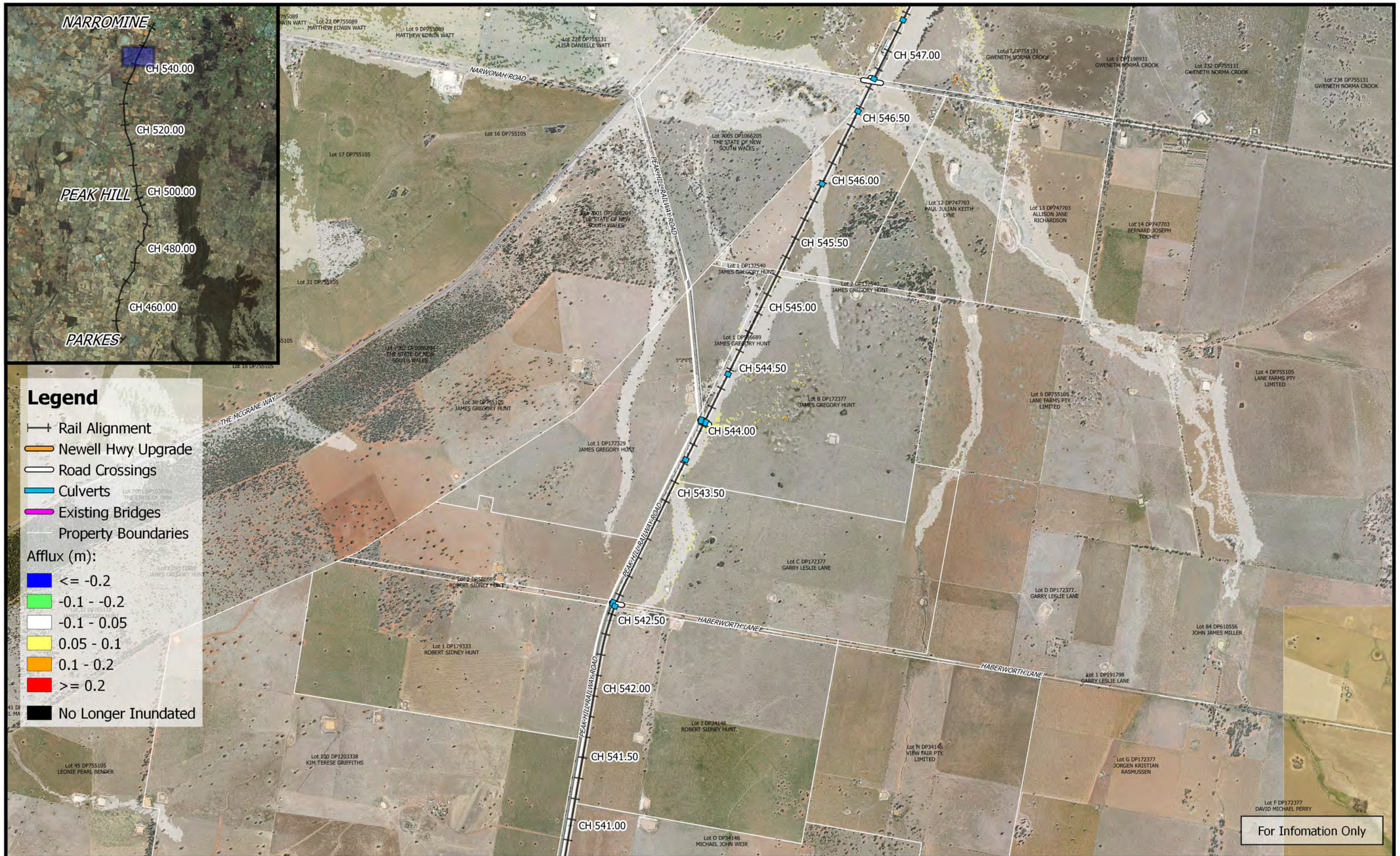
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- ≤ -0.2
- 0.1 - -0.2
- 0.1 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- ≥ 0.2
- No Longer Inundated

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	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only	



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

Afflux (m):

- Blue: ≤ -0.2
- Green: $-0.1 - -0.2$
- White: $-0.1 - 0.05$
- Yellow: $0.05 - 0.1$
- Orange: $0.1 - 0.2$
- Red: ≥ 0.2
- Black: No Longer Inundated

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	 1:25,000		Date: 15/10/2018 Rev: A - For Information Only Prepared By: YeohM	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE39A24 39% AEP Flood Afflux - CH 545.00</p>
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3			



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	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE39A25 39% AEP Flood Afflux - CH 550.00
			Rev: A - For Information Only	
			Prepared By: YeohM	