

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





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

0 250 500 750 1000 m

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

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Prepared By: YeohM

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

Figure D1A1
 1% AEP Flood Afflux - CH 450.00

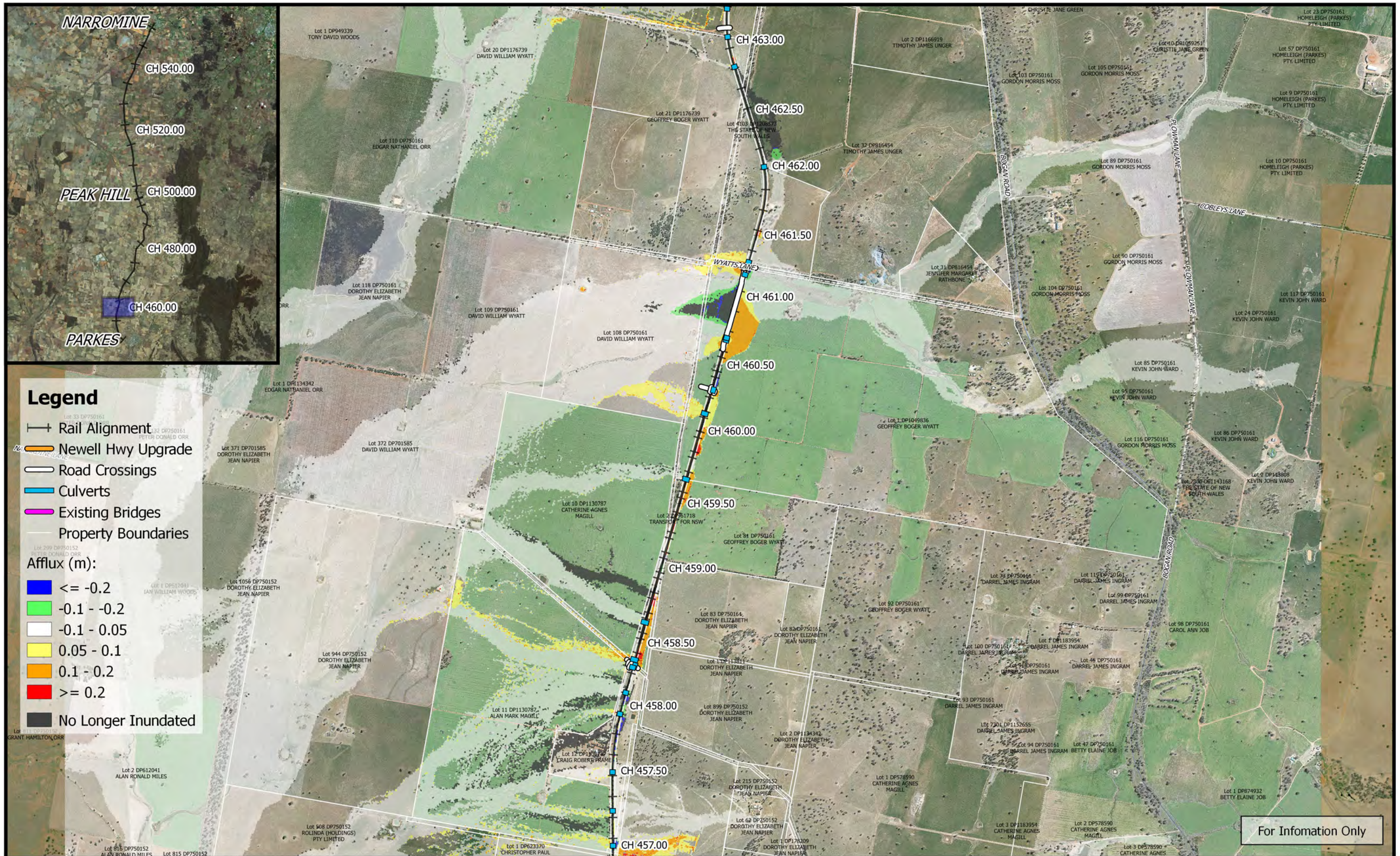
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	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A2 1% AEP Flood Afflux - CH 455.00</p>
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Legend

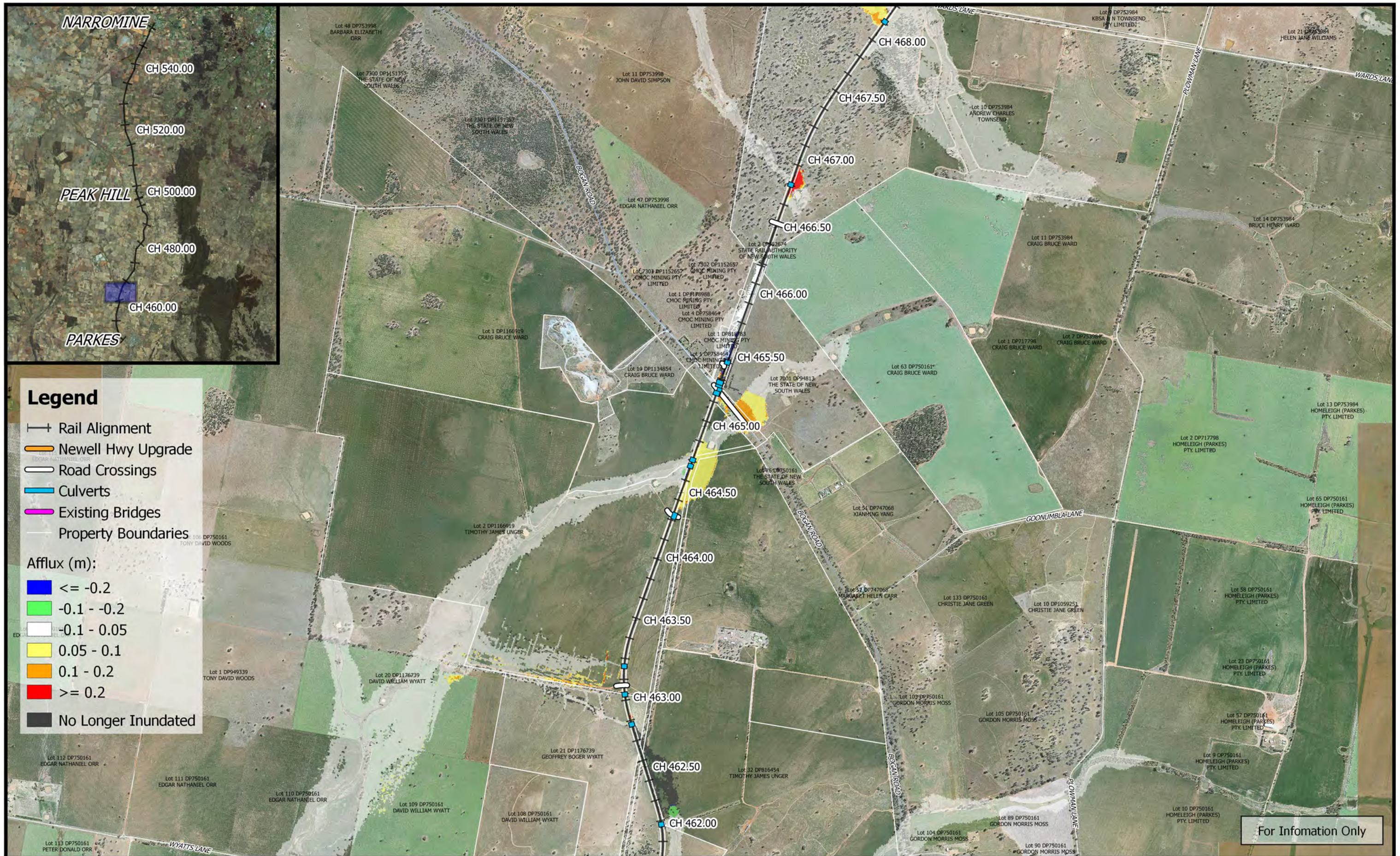
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

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

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 Rev: A - For Information Only Prepared By: YeohM	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure D1A3 <i>1% AEP Flood Afflux - CH 460.00</i>
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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

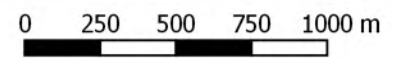
Date: 15/10/2018

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Prepared By: YeohM

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

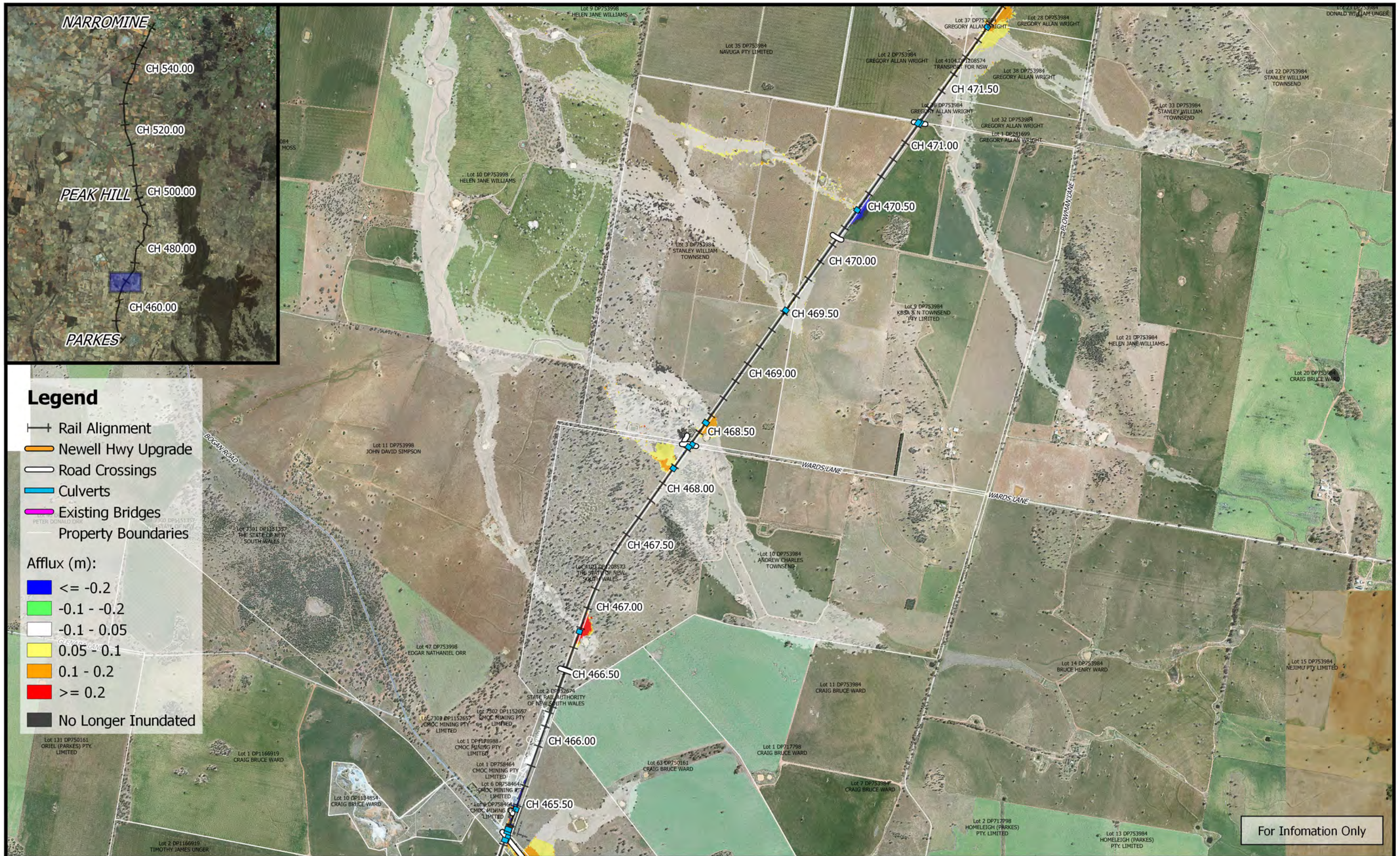
Figure D1A4
1% AEP Flood Afflux - CH 465.00



1:25,000

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

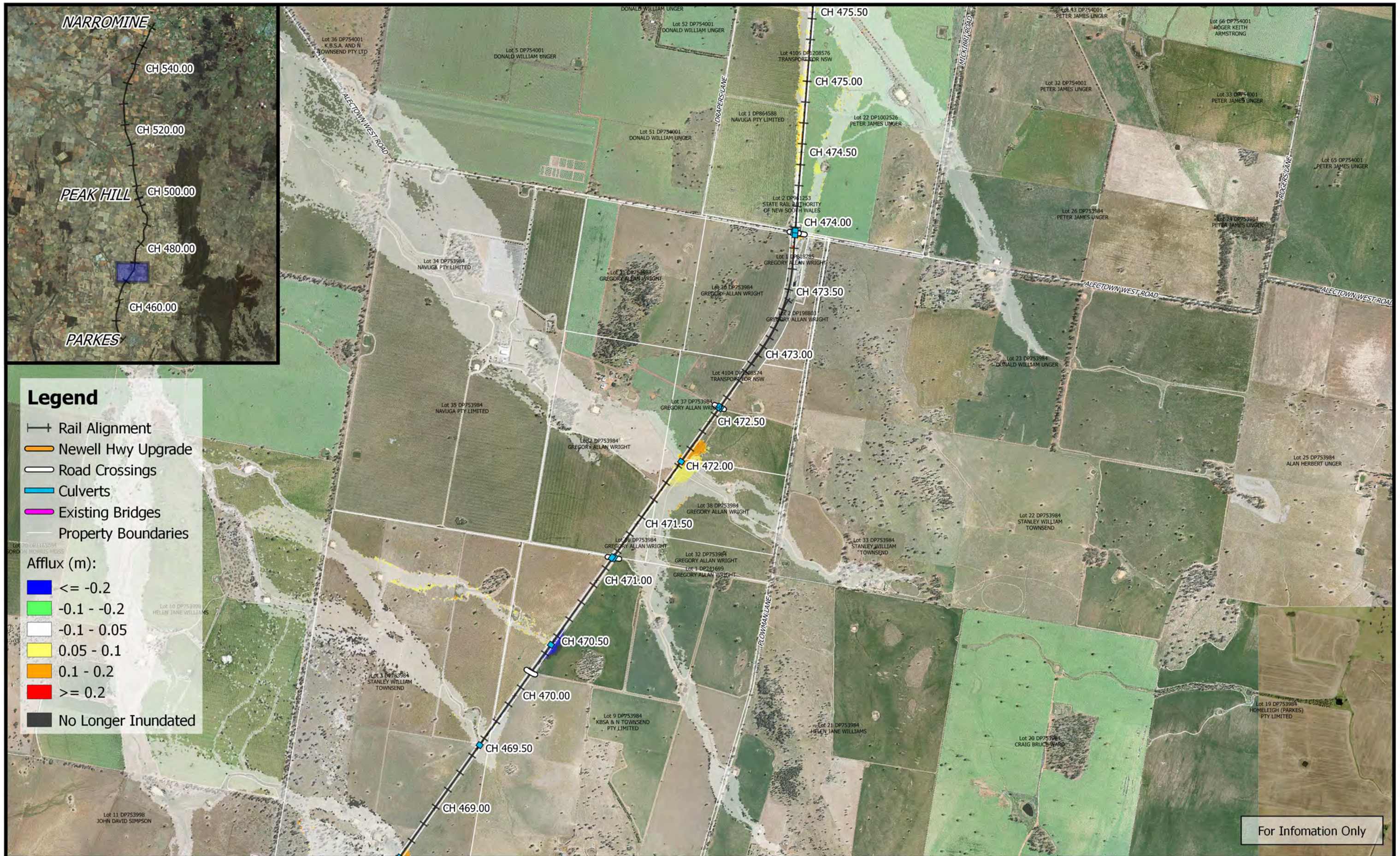
Afflux (m):

- ≤ -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>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A5 1% AEP Flood Afflux - CH 470.00</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

For Information Only

	<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>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>	

Figure D1A6
1% AEP Flood Afflux - CH 472.00

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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



0 250 500 750 1000 m

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

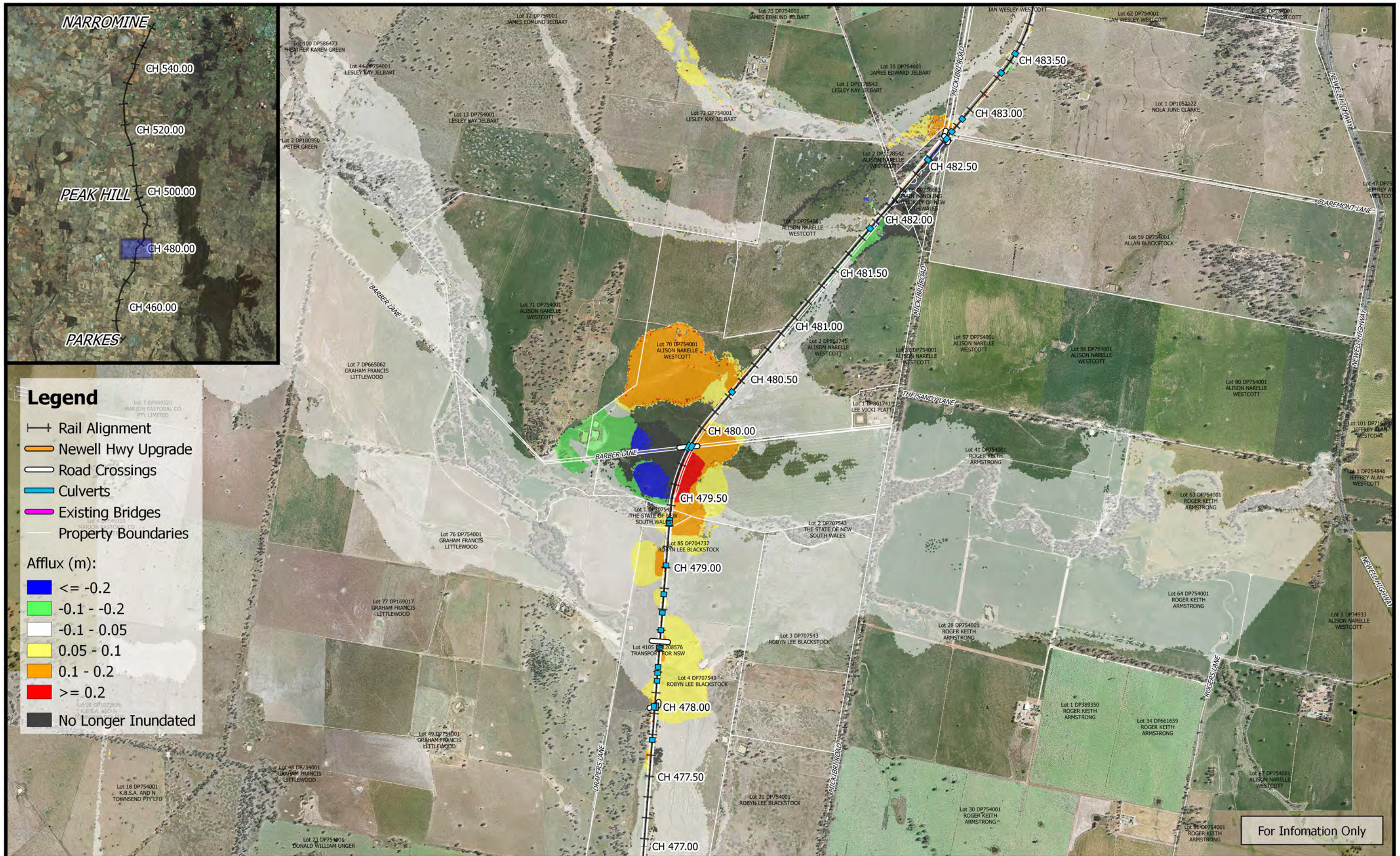
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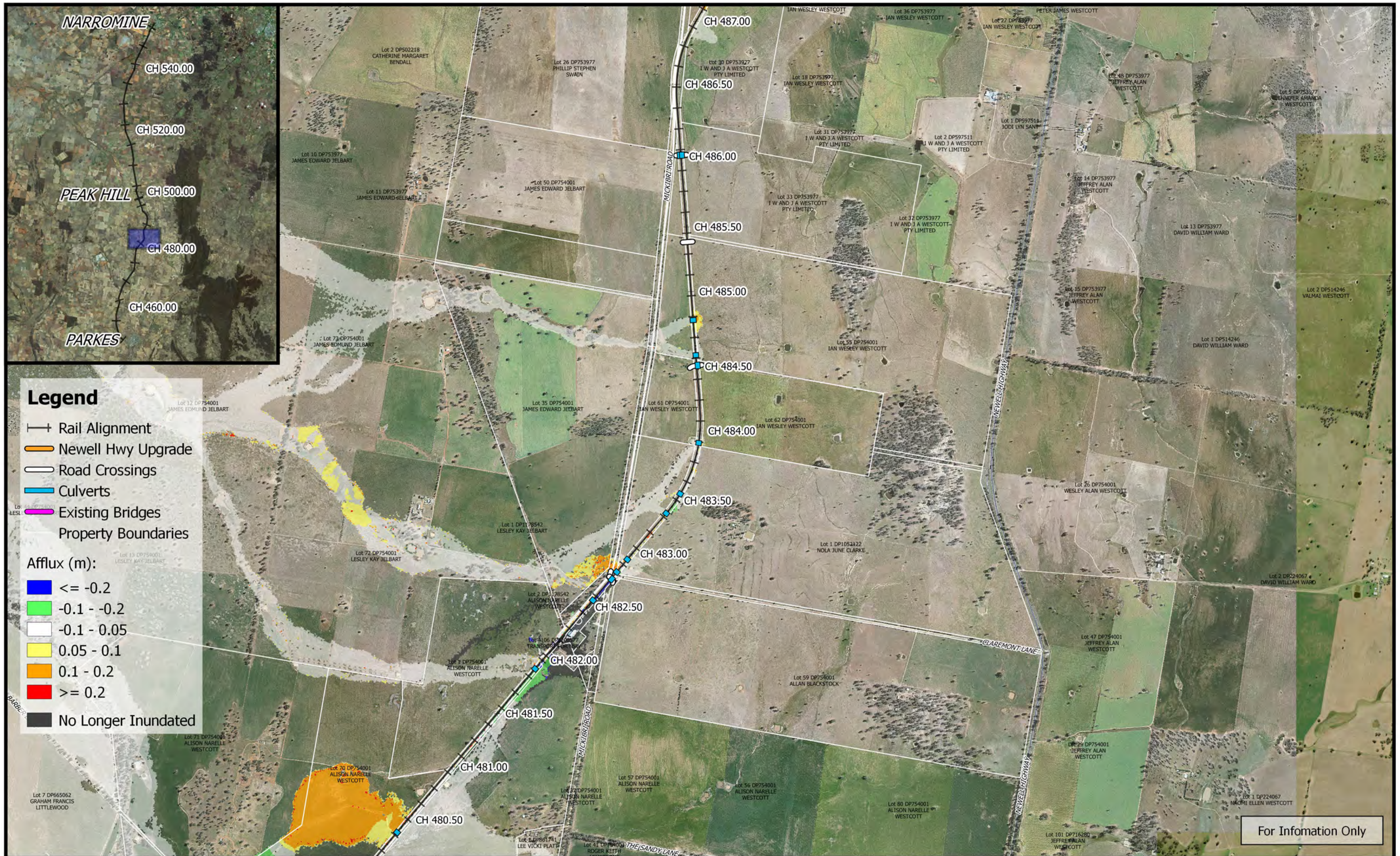
Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure D1A7
 1% AEP Flood Afflux - CH 475.00

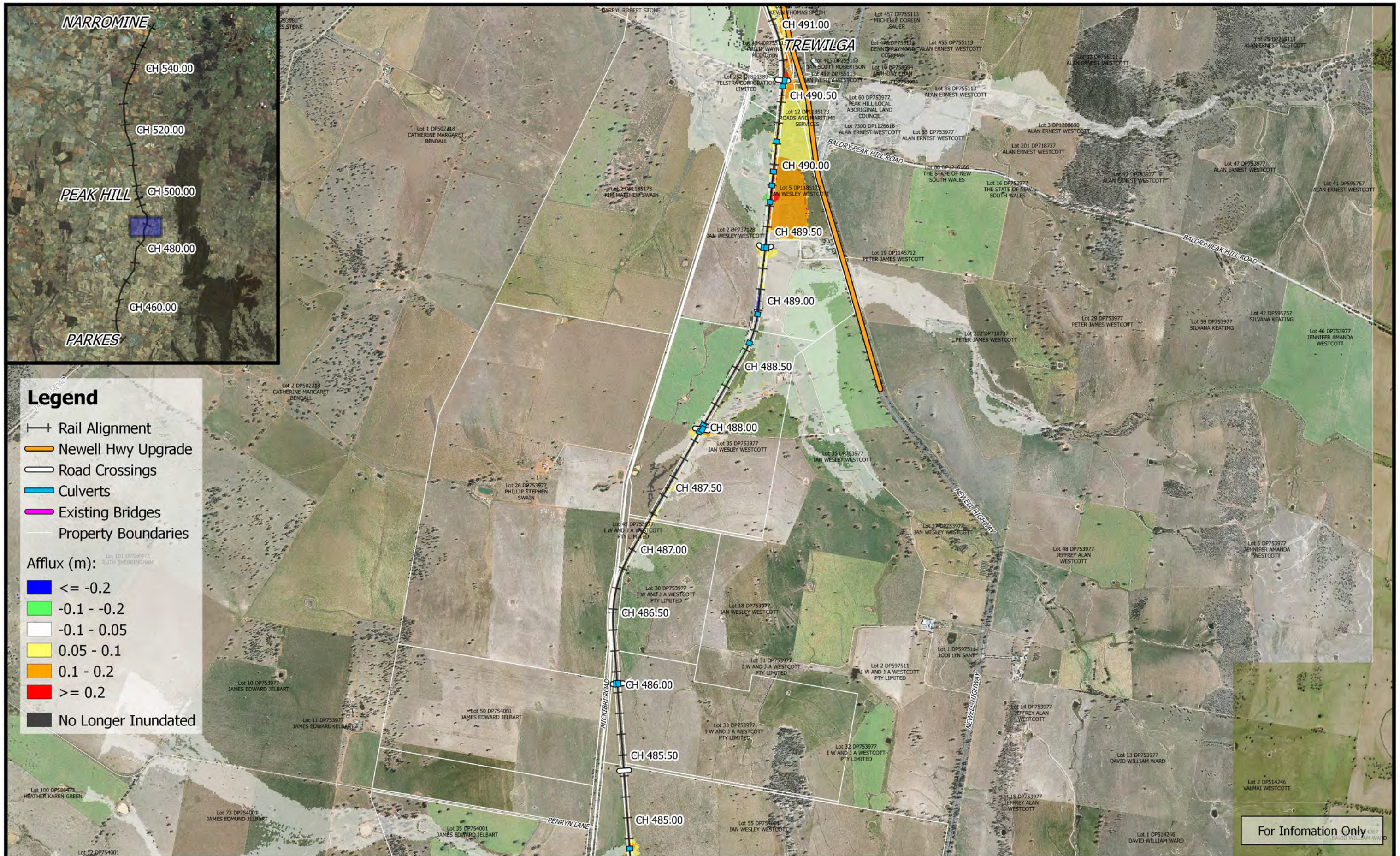
For Information Only



	<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>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A8 1% AEP Flood Afflux - CH 480.00</p>
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			Prepared By: YeohM	



	<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 D1A9 1% AEP Flood Afflux - CH 485.00</p>
			Rev: A - For Information Only	
			Prepared By: YeohM	



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


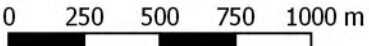

- Afflux (m):**
- ≤ -0.2
 - 0.1 - -0.2
 - 0.1 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.2
 - ≥ 0.2
 - No Longer Inundated

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	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	<p>M MOTT MACDONALD</p>	Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A10 1% AEP Flood Afflux - CH 490.00</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	



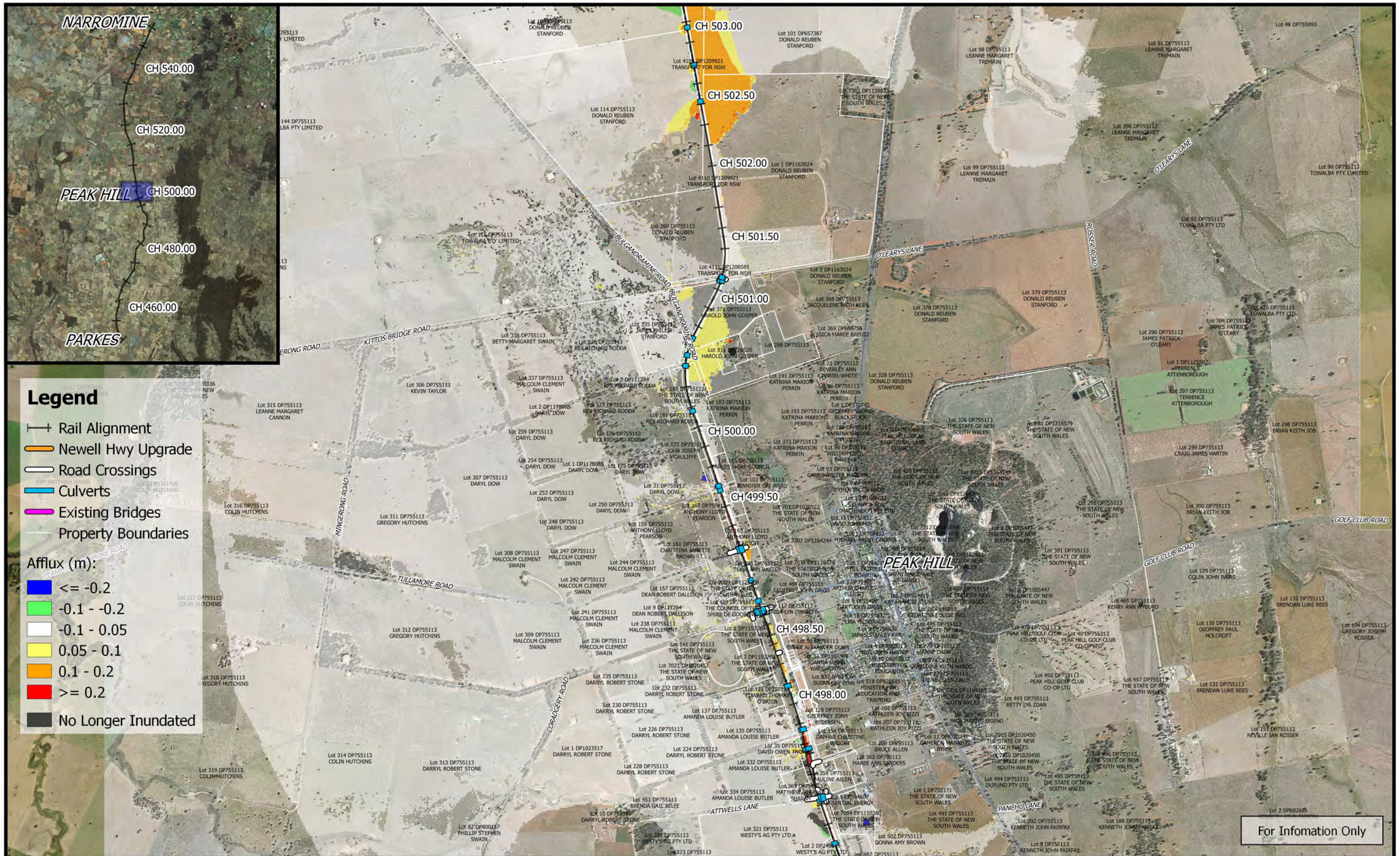
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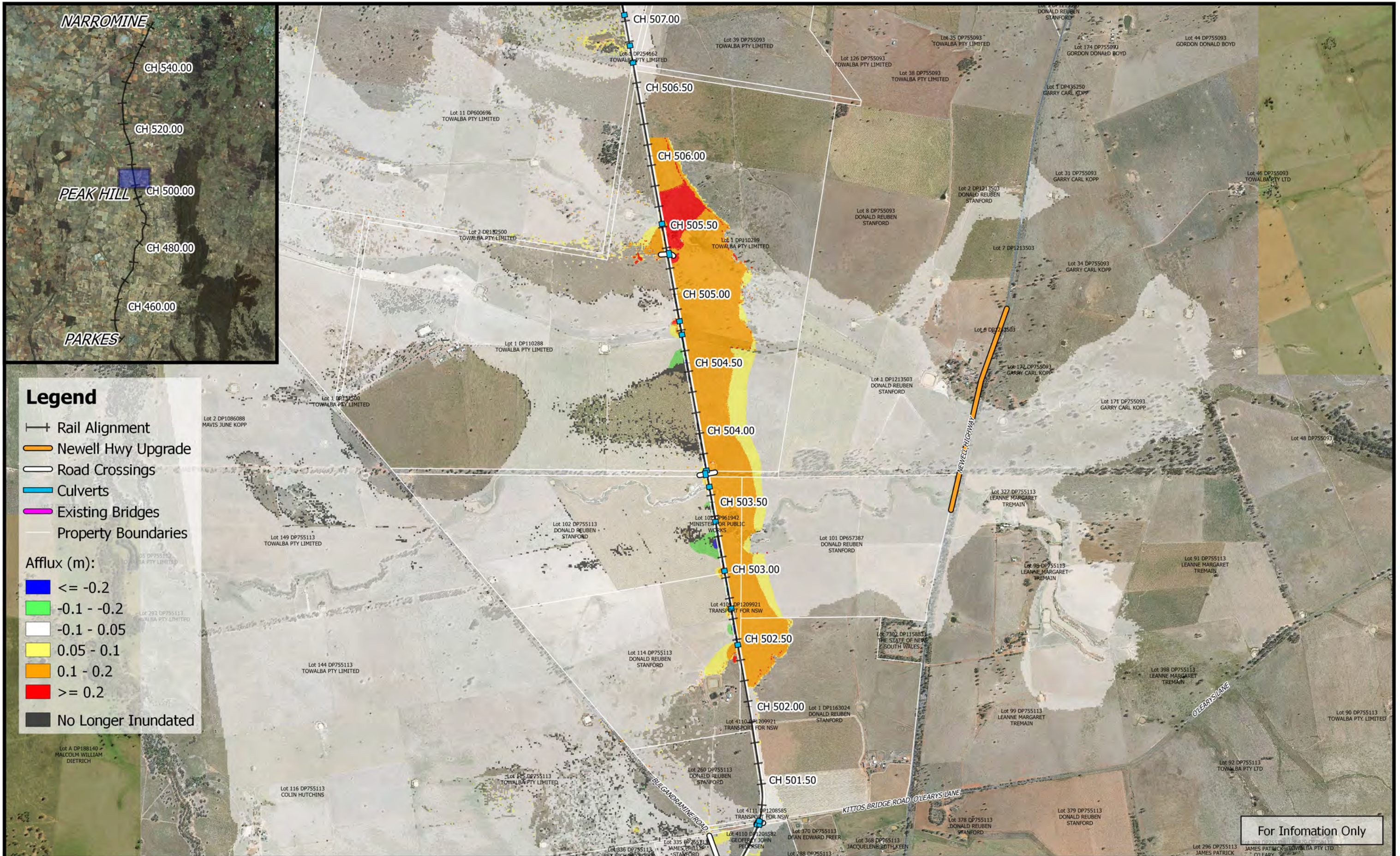
	 1:25,000		Date: 15/10/2018	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure D1A11 1% AEP Flood Afflux - CH 492.00	
	Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: A - For Information Only		
			Prepared By: YeohM		



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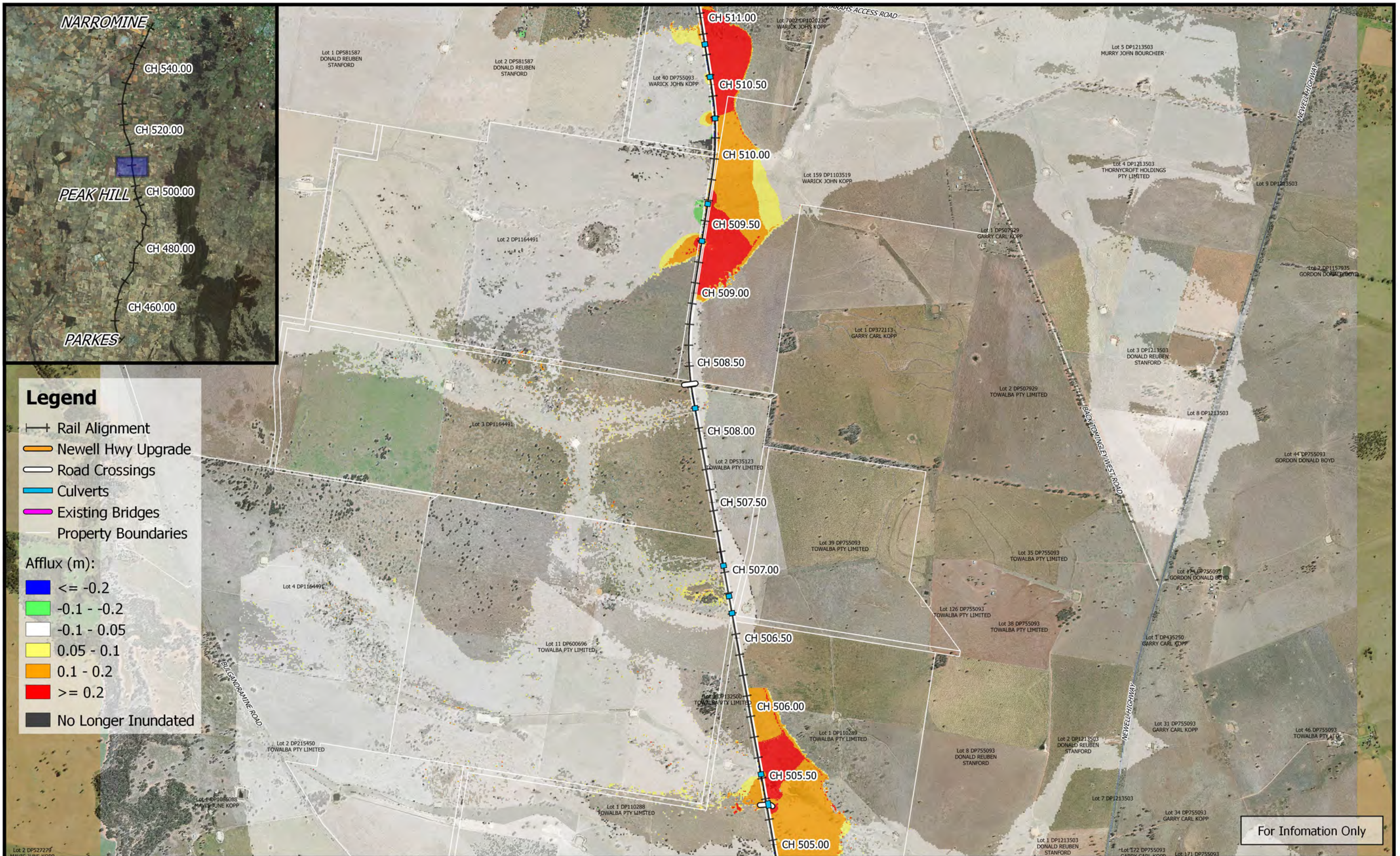
			Date: 15/10/2018	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure D1A12 1% AEP Flood Afflux - CH 495.00</p>
	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Rev: A - For Information Only	
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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>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A14 1% AEP Flood Afflux - CH 505.00</p>
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	Prepared By: YeohM			

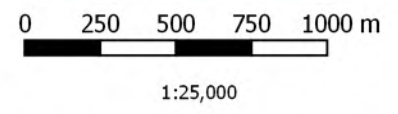


Legend

- 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

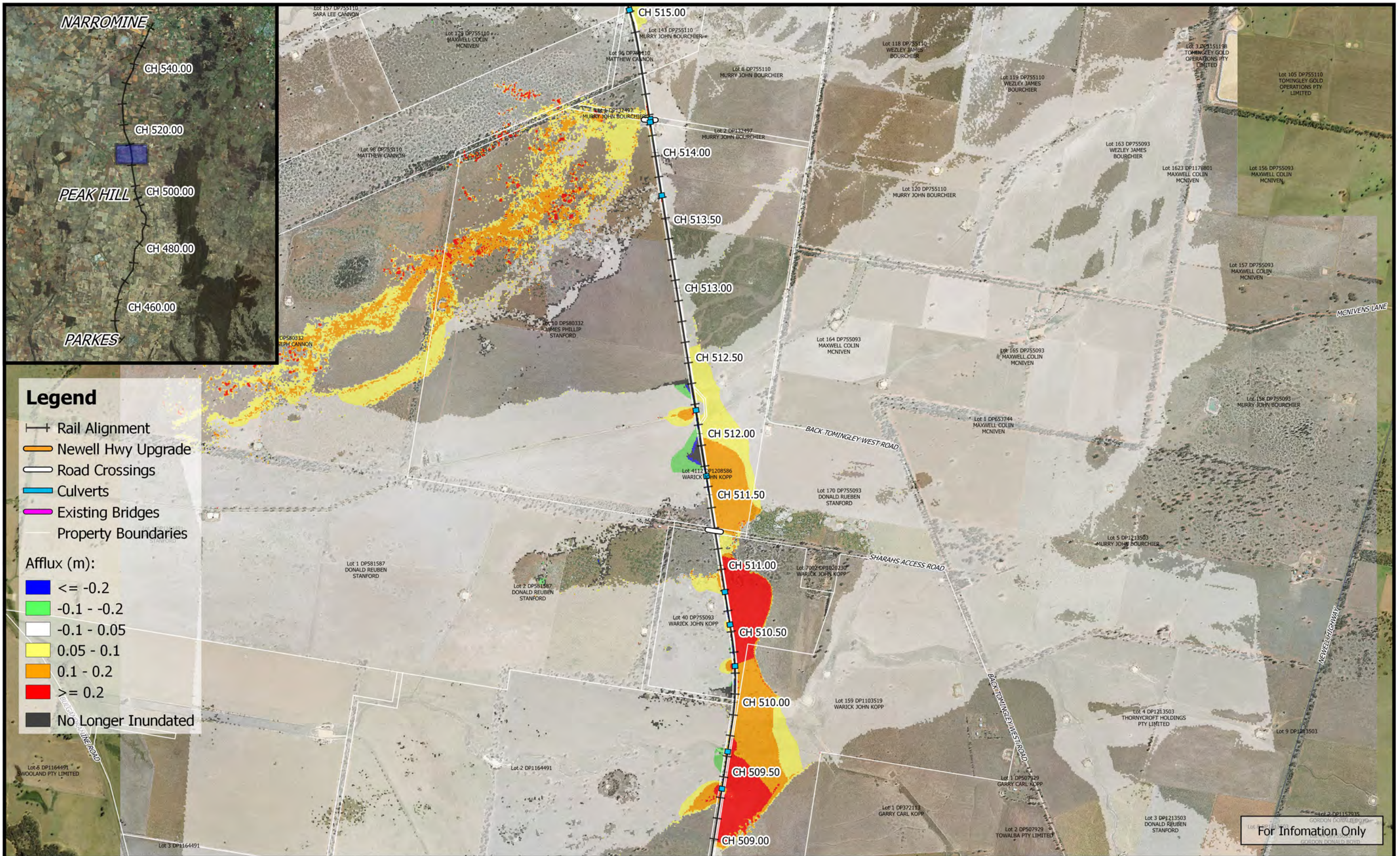


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Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure D1A15
 1% AEP Flood Afflux - CH 510.00

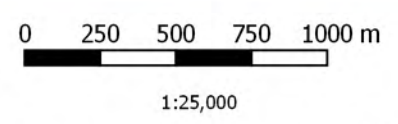
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Legend

- 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



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

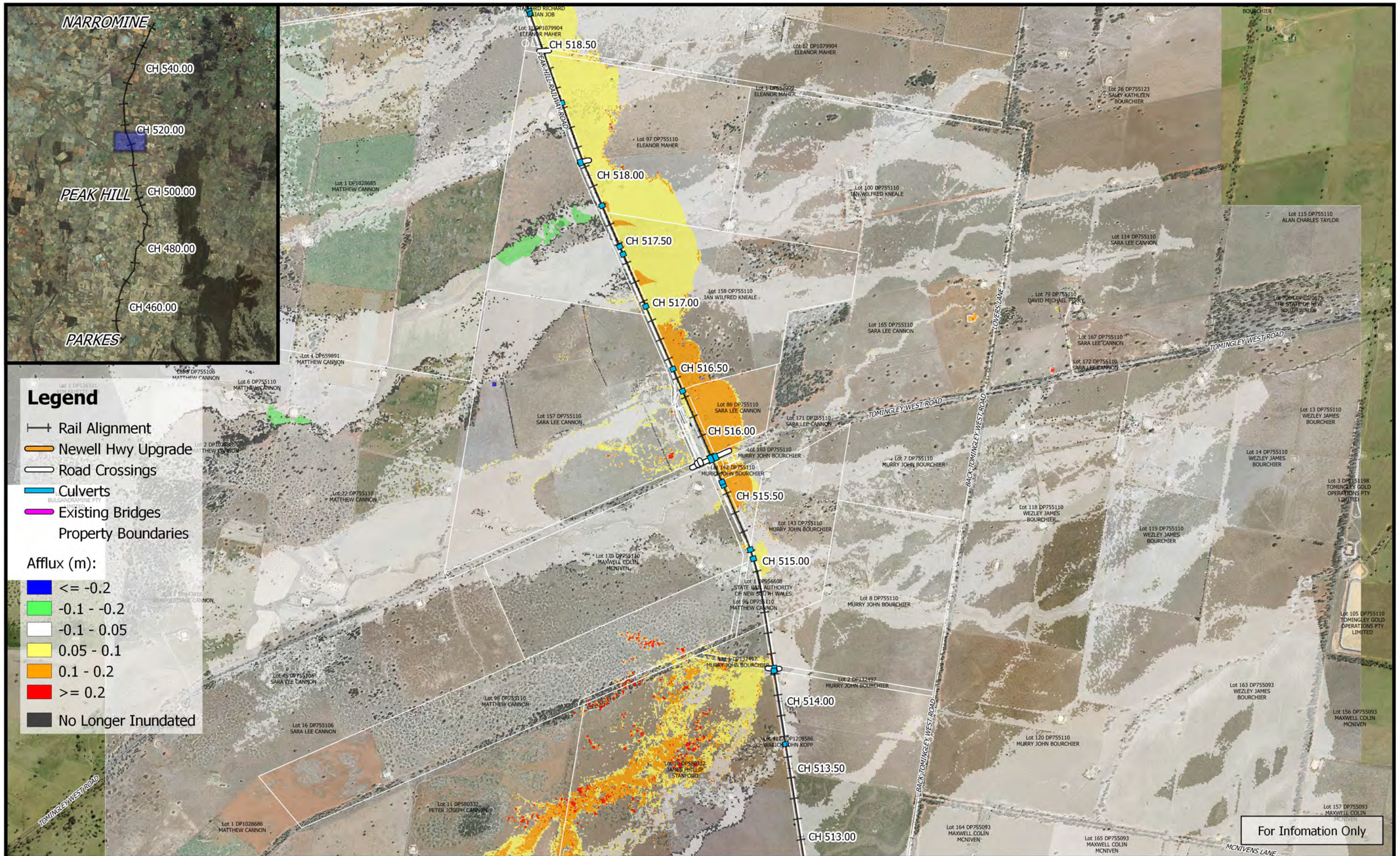


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Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

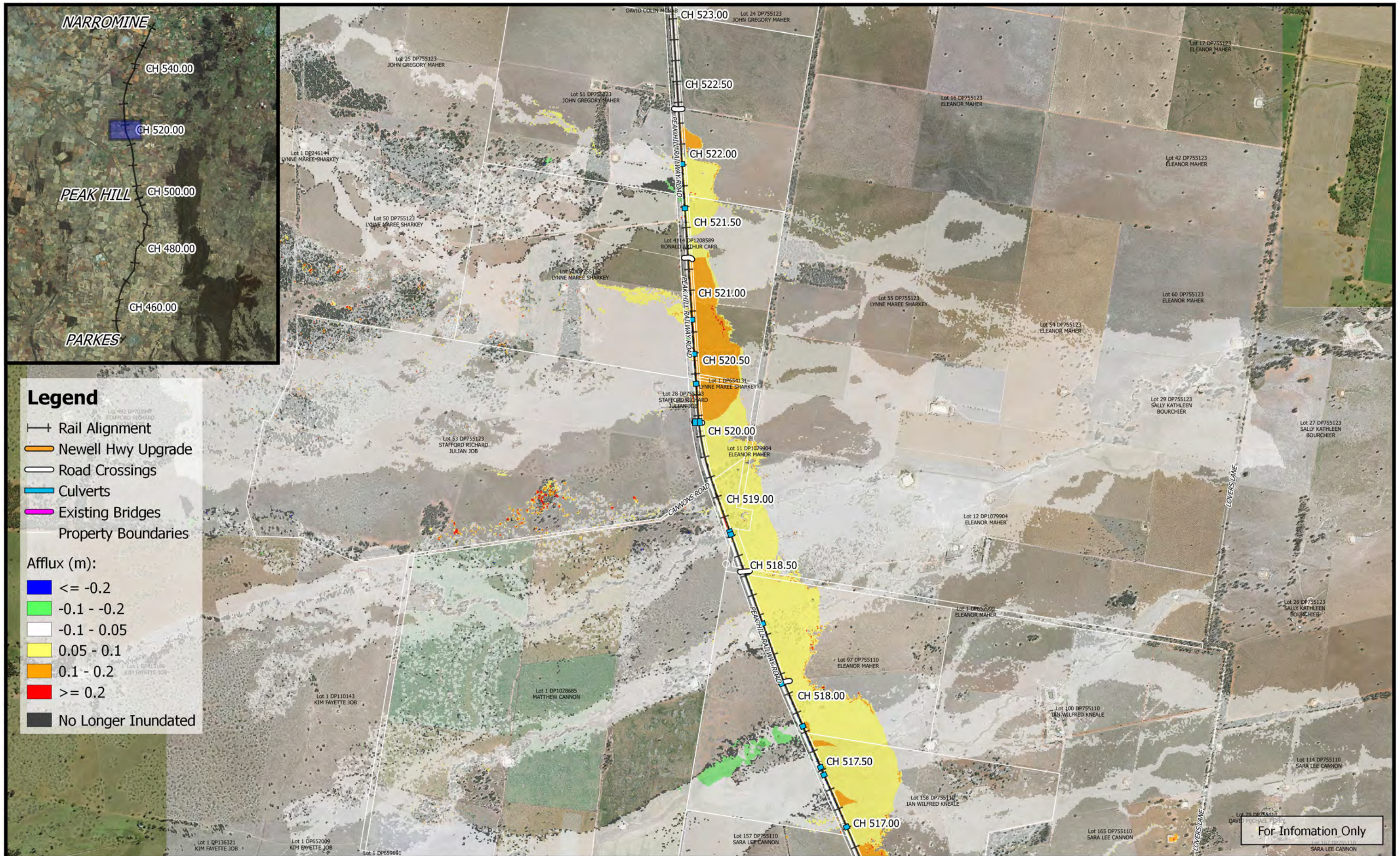
Figure D1A16
 1% AEP Flood Afflux - CH 512.00

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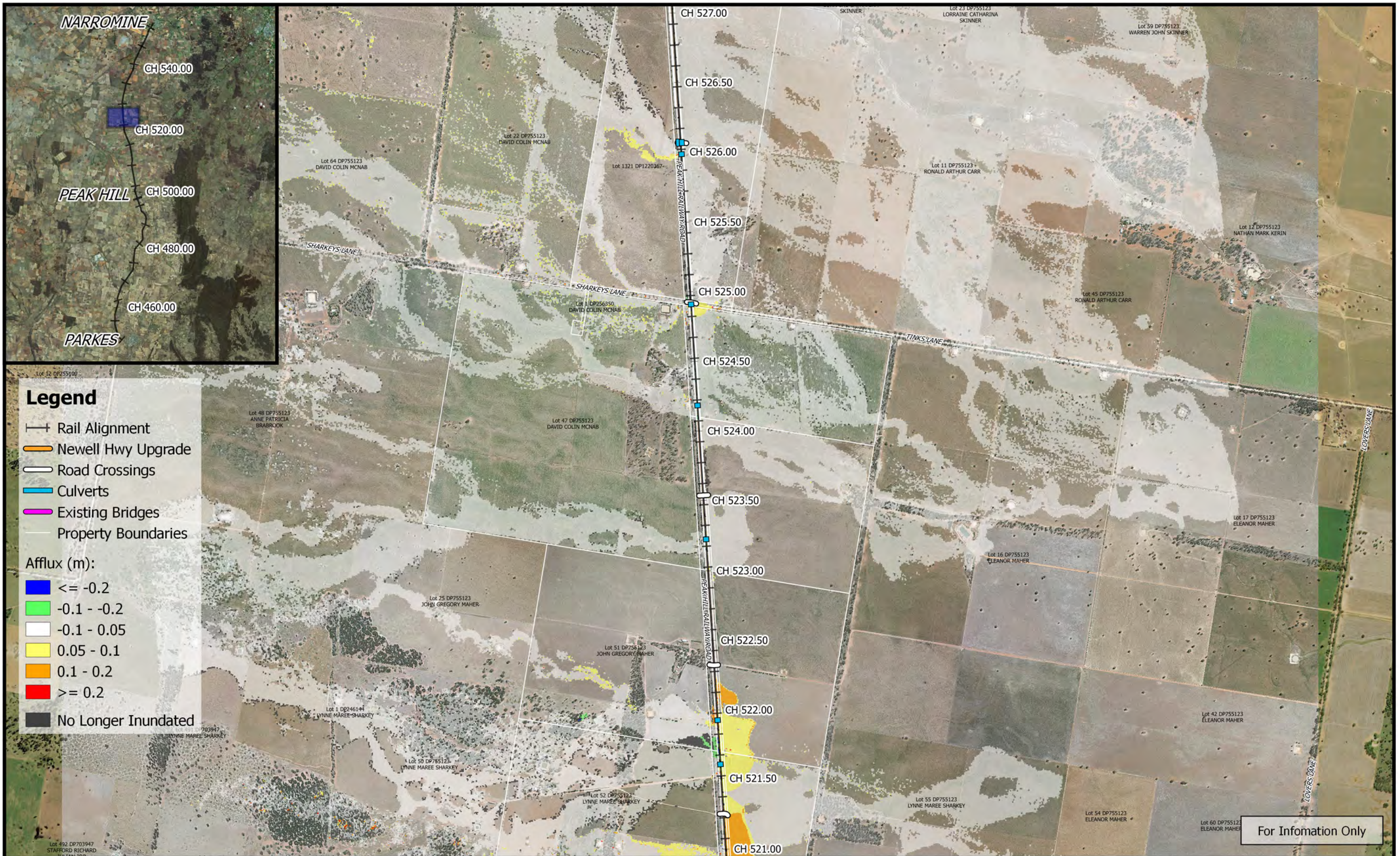


	<p>1:25,000</p>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A17 1% AEP Flood Afflux - CH 515.00</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: A - For Information Only</p>	
	<p>Prepared By: YeohM</p>			



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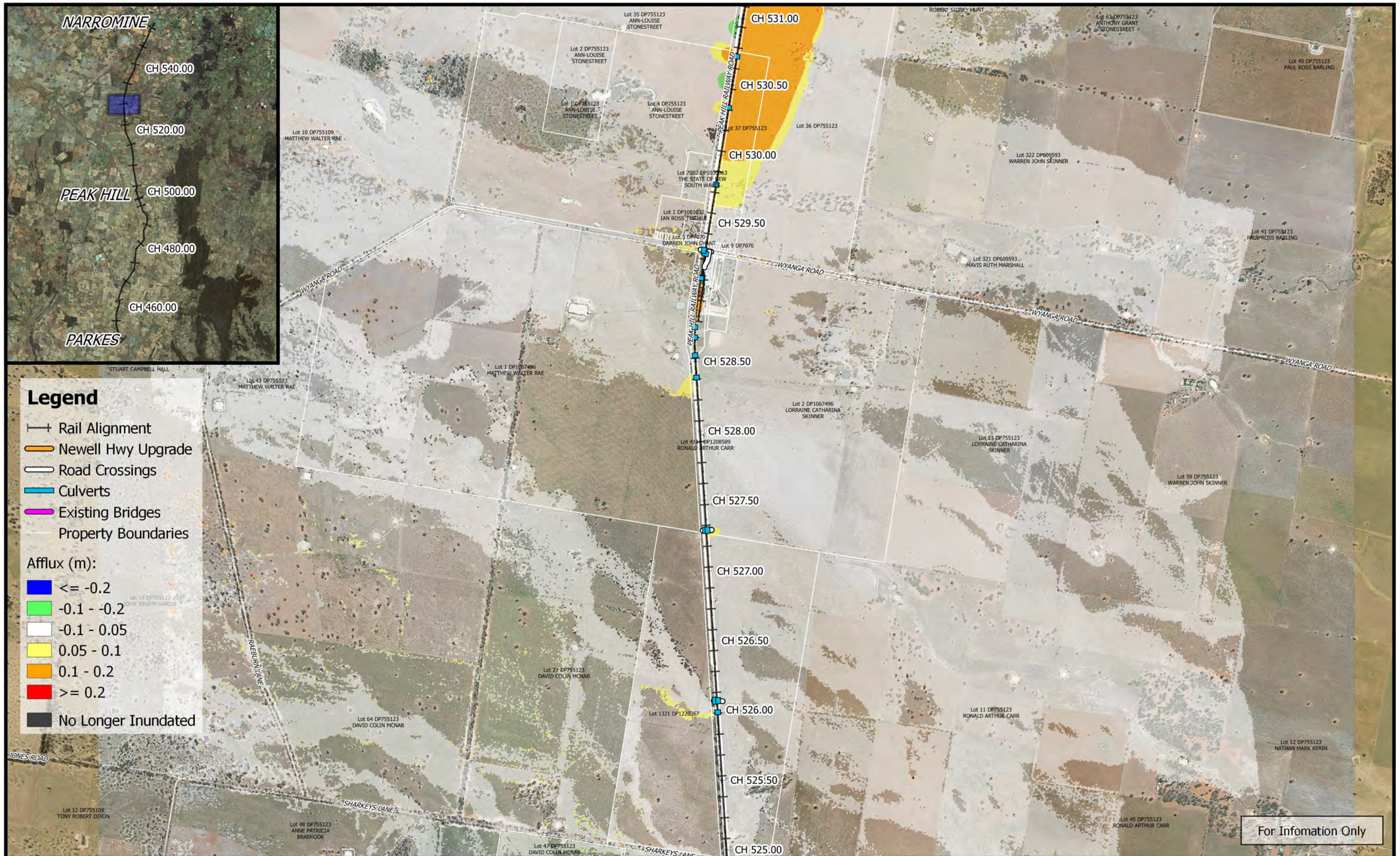


			Date: 15/10/2018	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure D1A18 1% AEP Flood Afflux - CH 520.00</p>
	<p align="center">1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Rev: A - For Information Only	
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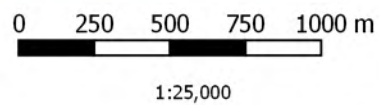


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	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 15/10/2018	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
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			Prepared By: YeohM	



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



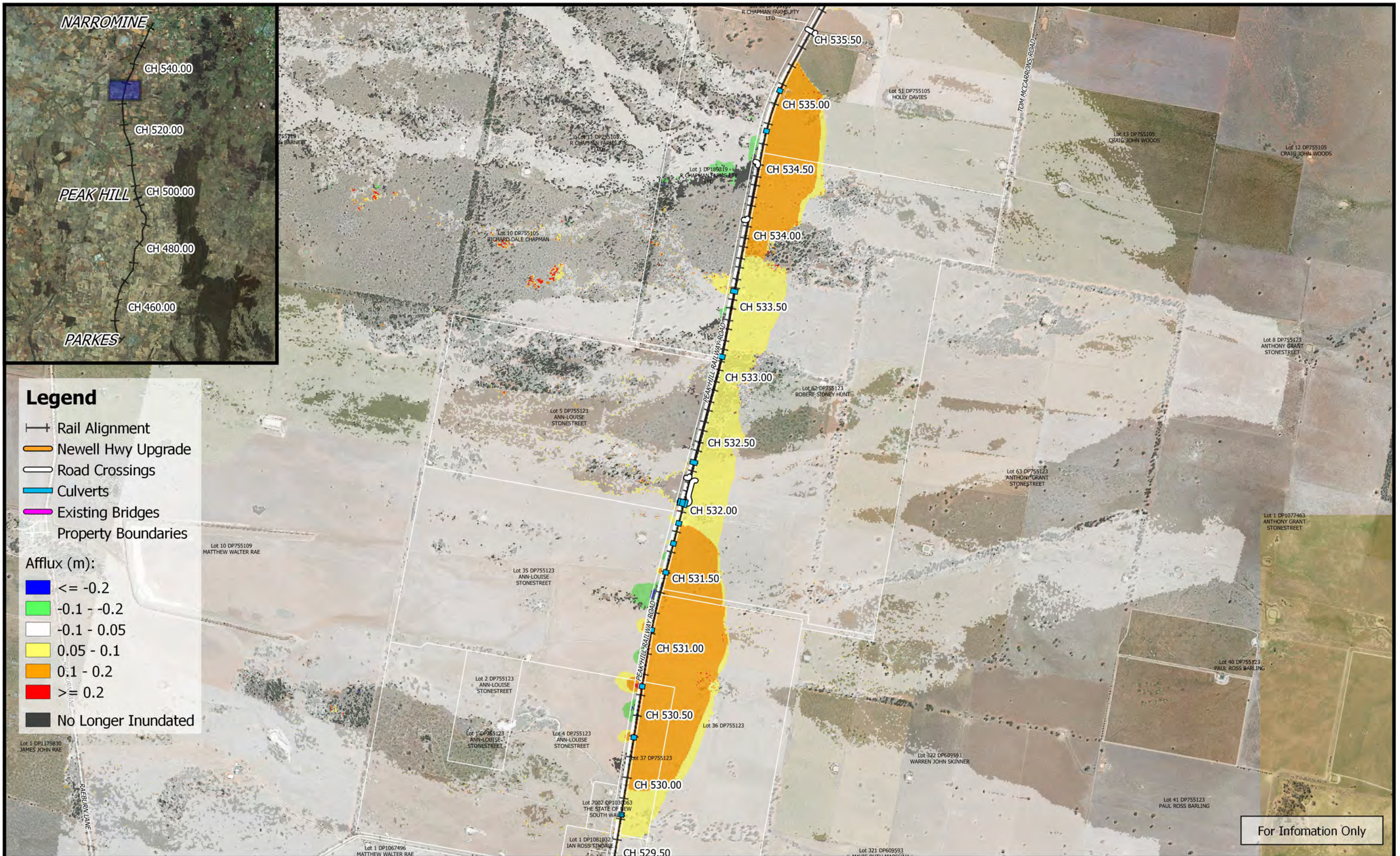
Date: 15/10/2018

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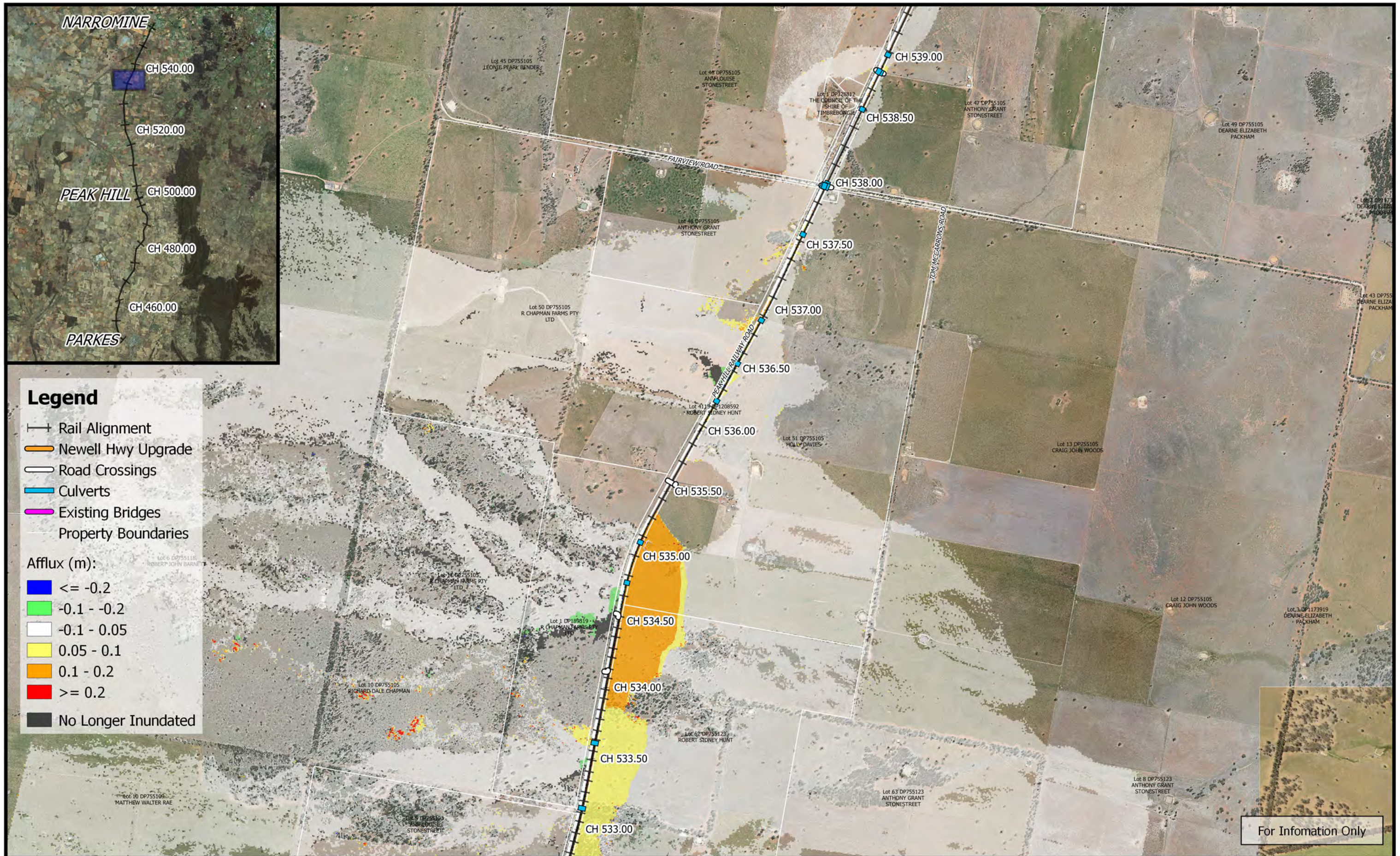
Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure D1A20
 1% AEP Flood Afflux - CH 530.00



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 align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure D1A21 1% AEP Flood Afflux - CH 533.00</p>
	Rev: A - For Information Only			
	Prepared By: YeohM			



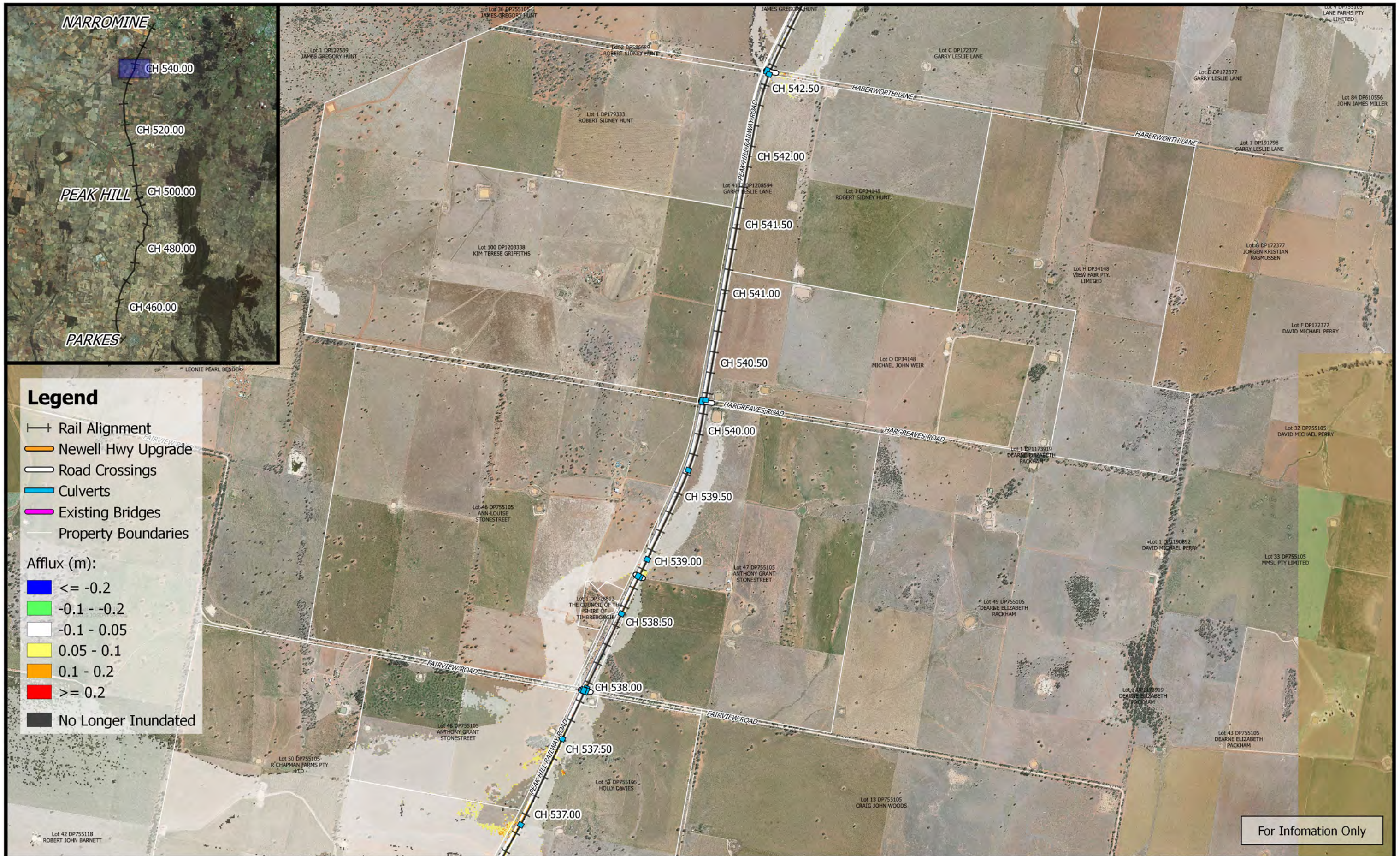
Legend

- 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

For Information Only

	<p>1:25,000</p>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A22 1% AEP Flood Afflux - CH 535.00</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

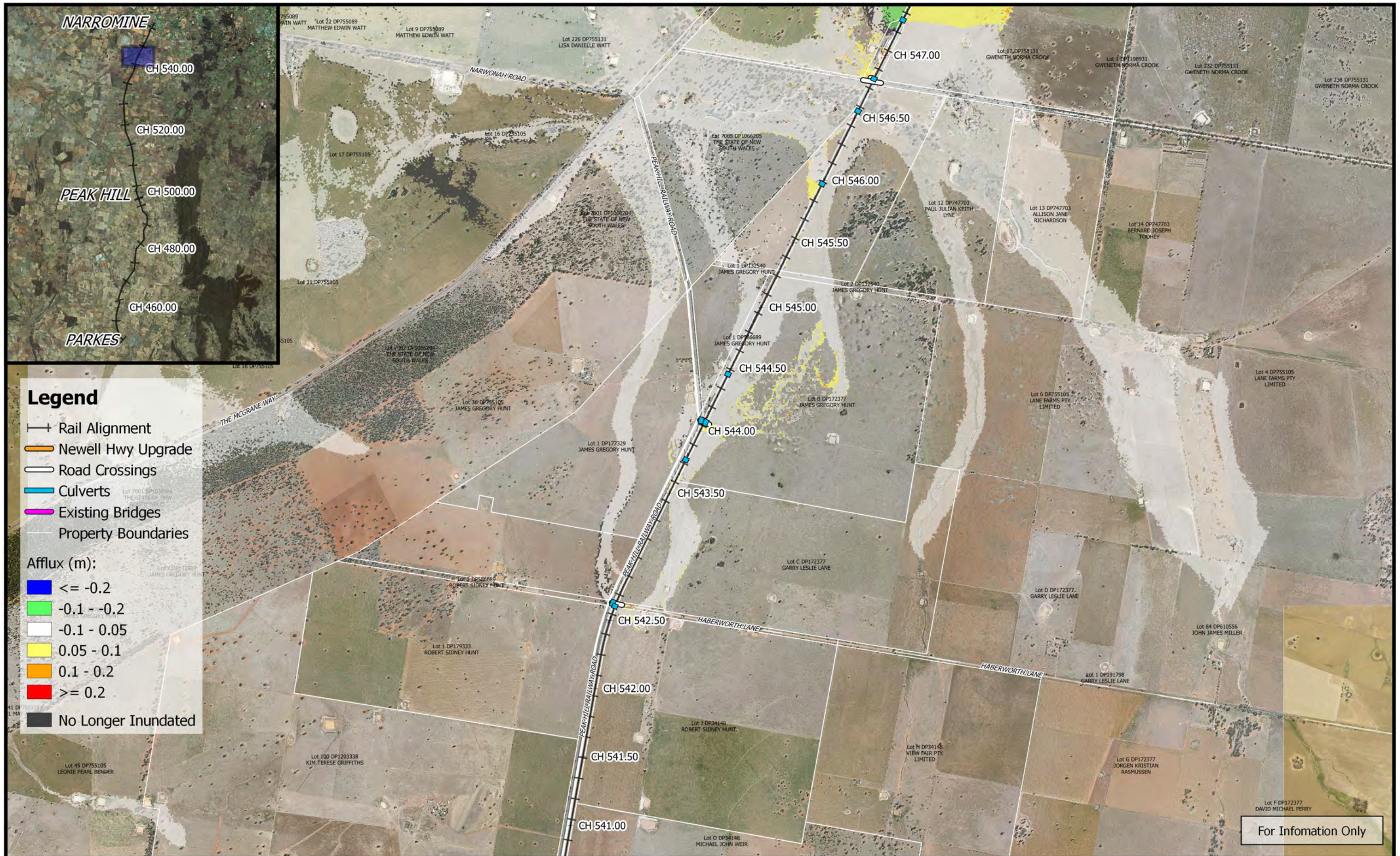
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

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

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	<p>M M MOTT MACDONALD</p>	Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A23 1% AEP Flood Afflux - CH 540.00</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

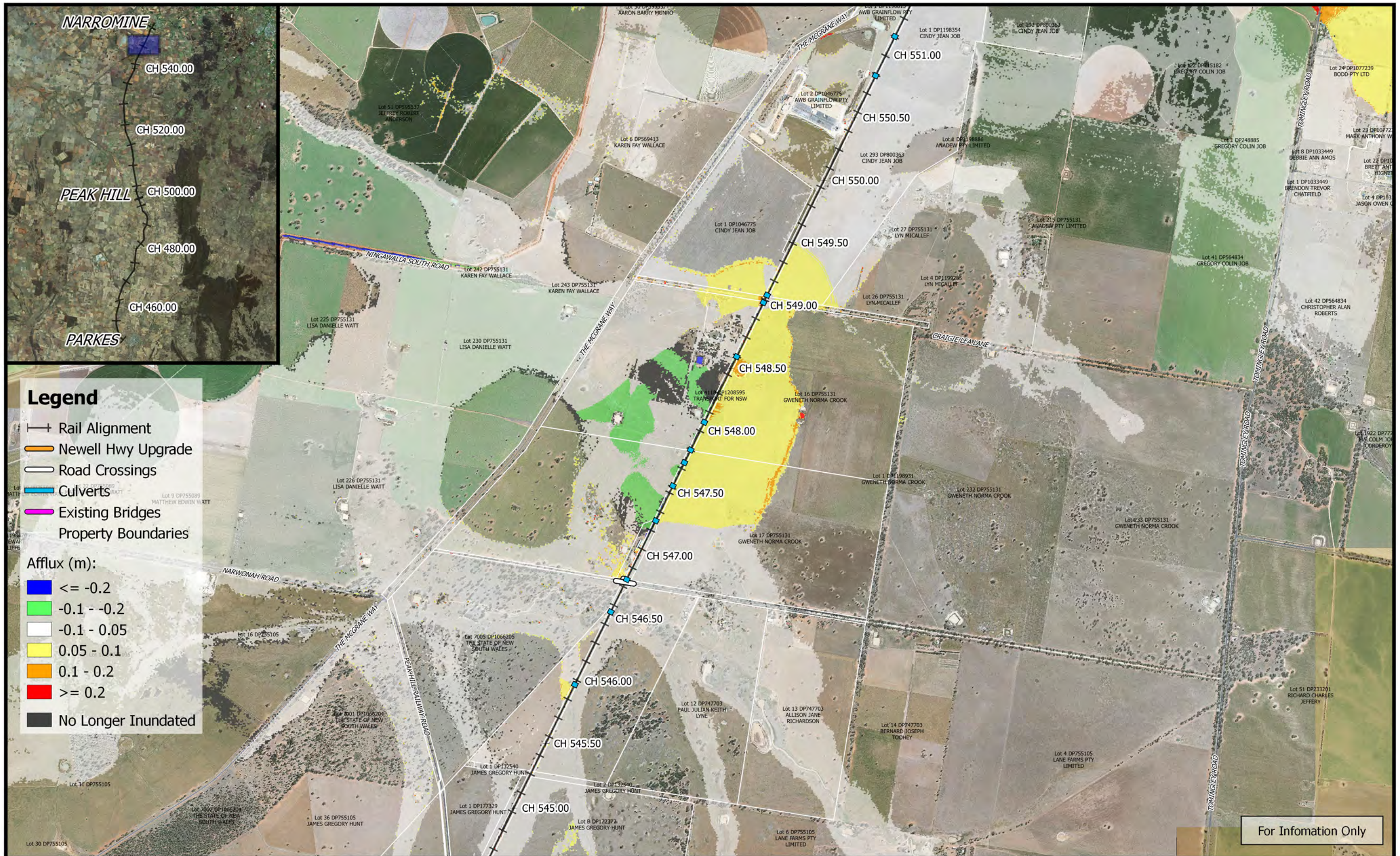
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries

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

For Information Only

	<p>1:25,000</p>		Date: 15/10/2018	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure D1A24 1% 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		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 D1A25 1% AEP Flood Afflux - CH 550.00</p>
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