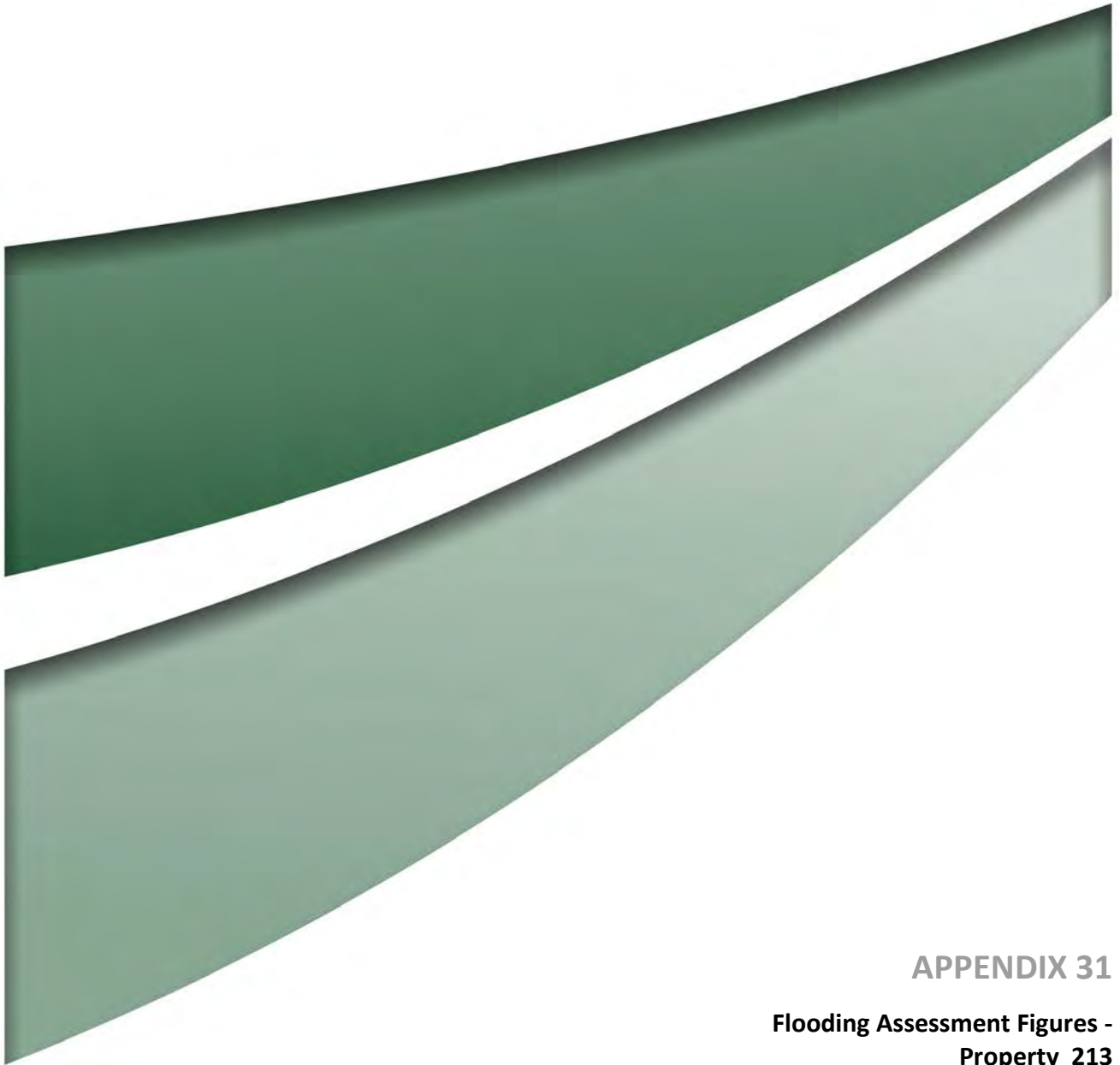




APPENDIX 31

Flooding Assessment Figures -
Property 213

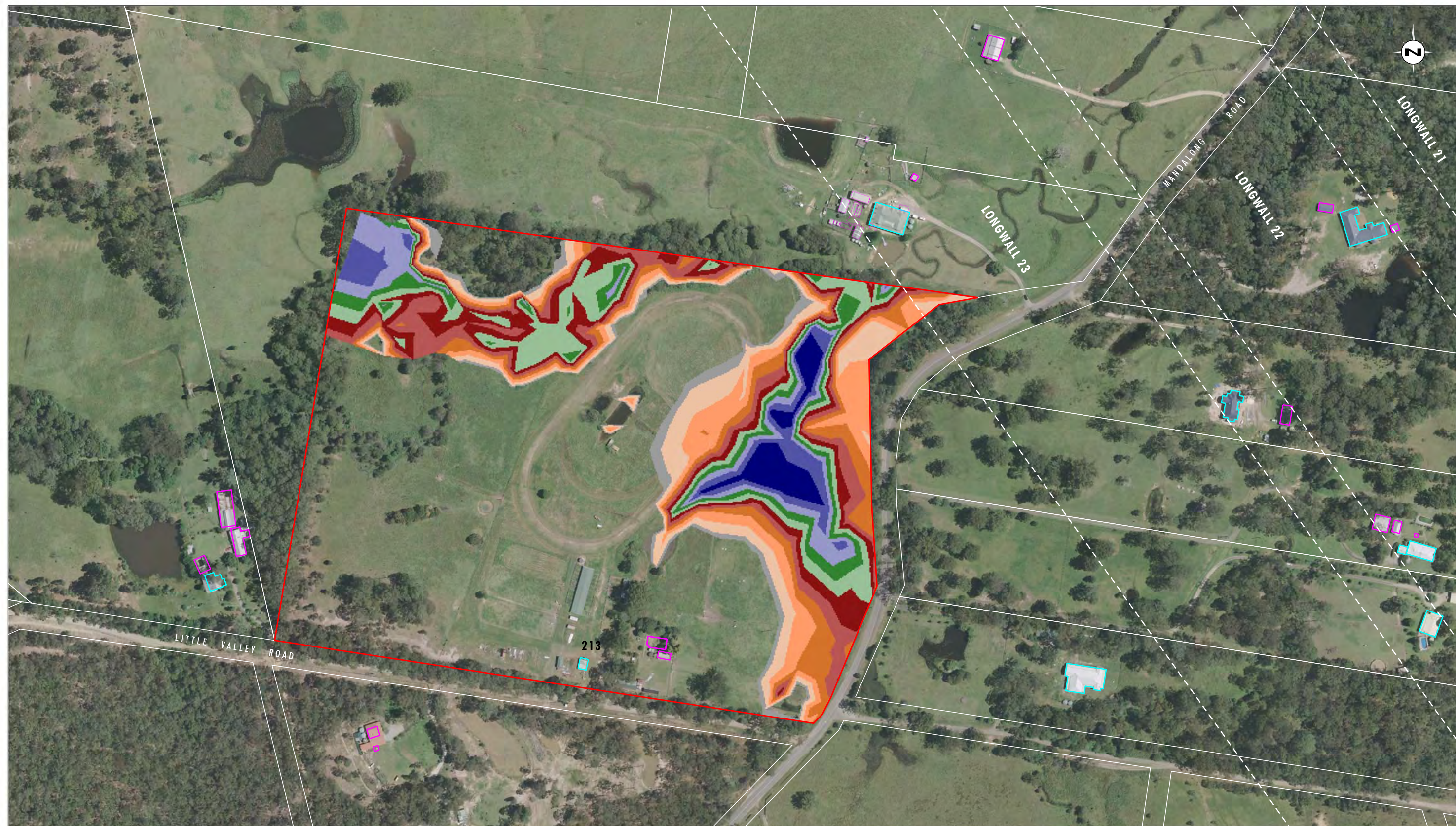


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
 	Property 213	 	Range [0.900 : 1.100]
 	Longwall Locations	 	Range [0.001 : 0.100]
 	Dwelling	 	Range [0.100 : 0.300]
 	Other Structure	 	Range [0.300 : 0.500]
 	Cadastral Boundary	 	Range [0.500 : 0.700]
		 	Range [0.700 : 0.900]
		 	Range [1.100 : 1.300]
		 	Range [1.300 : 1.500]
		 	Range [1.500 : 1.700]
		 	Range [1.700 : 1.900]
		 	Range [>1.900]

File Name (A3): R02/Appendix31/3685_457.dgn
20160830 15:55

FIGURE 1

Property 213 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

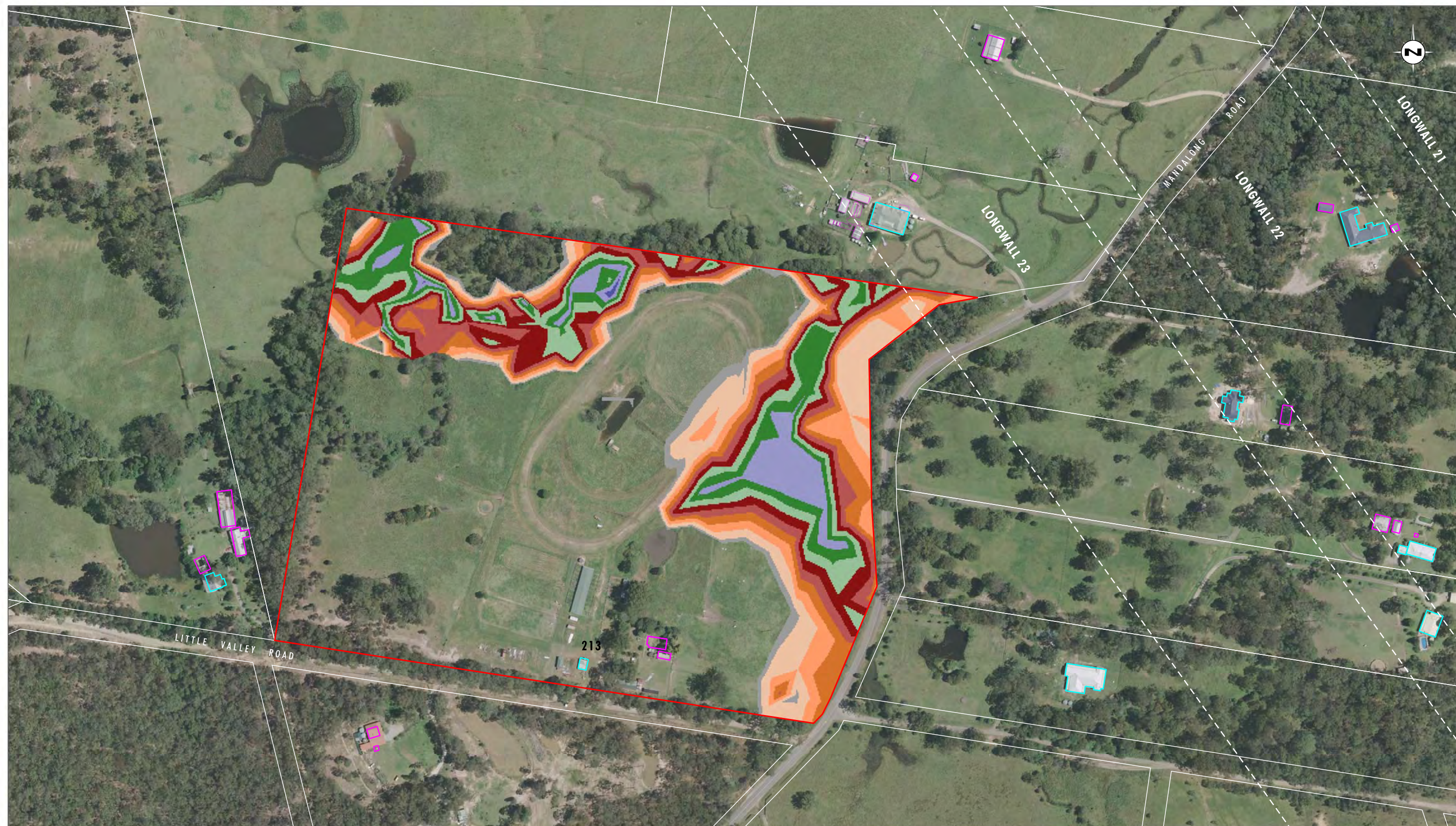


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

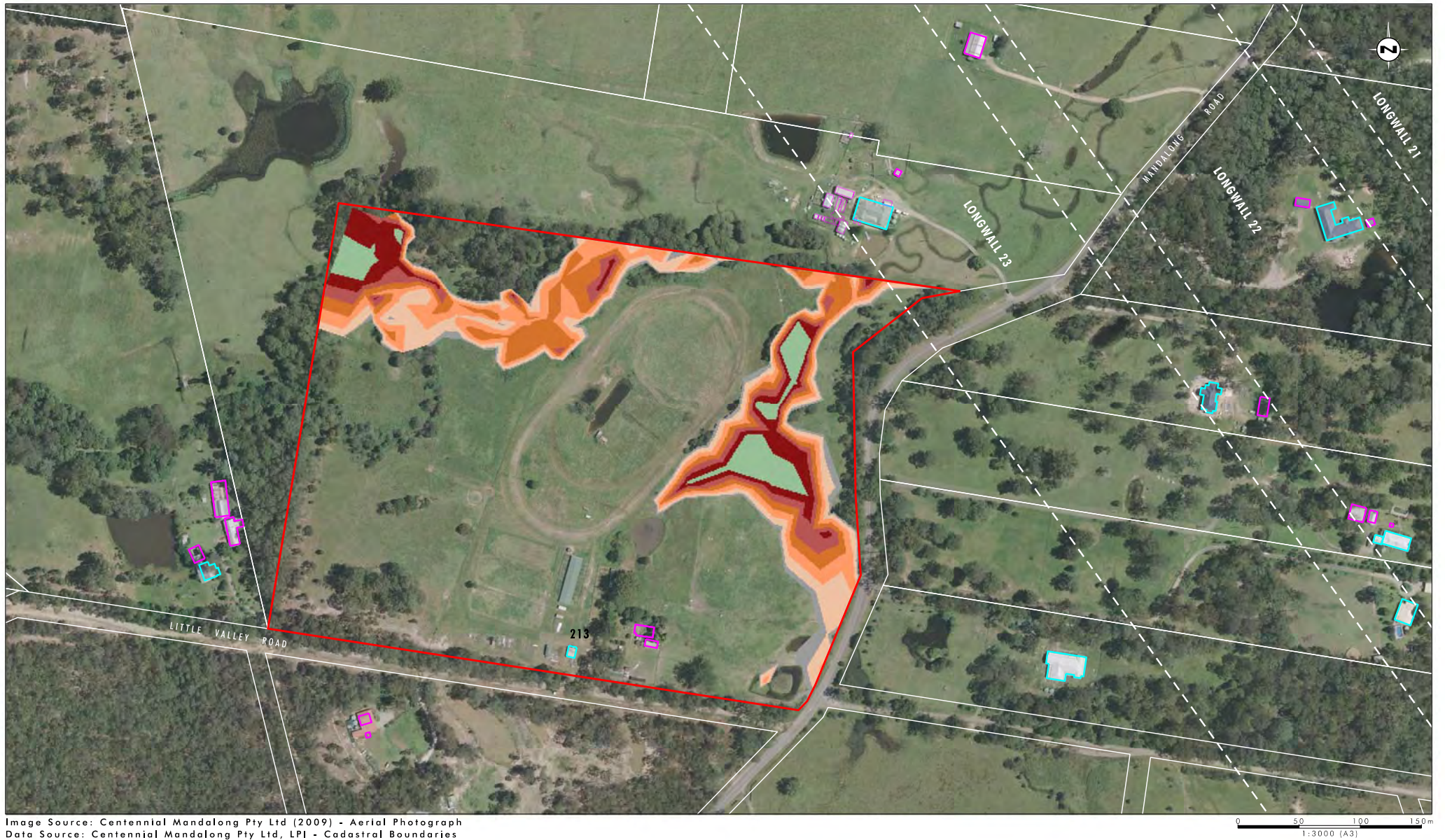
0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 213		Range [0.900 : 1.100]
	Longwall Locations		Range [1.100 : 1.300]
	Dwelling		Range [1.300 : 1.500]
	Other Structure		Range [1.500 : 1.700]
	Cadastral Boundary		Range [1.700 : 1.900]
			Range [>1.900]
			Range [0.700 : 0.900]
			Range [0.500 : 0.700]
			Range [0.300 : 0.500]
			Range [0.100 : 0.300]
			Range [0.001 : 0.100]

File Name (A3): R02/Appendix31/3685_458.dgn
20160830 16.14

FIGURE 2

Property 213 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Legend		Water Depth (m)	
 	Property 213	 	Range [0.001 : 0.100]
 	Longwall Locations	 	Range [0.100 : 0.300]
 	Dwelling	 	Range [0.300 : 0.500]
 	Other Structure	 	Range [0.500 : 0.700]
 	Cadastral Boundary	 	Range [0.700 : 0.900]
		 	Range [0.900 : 1.100]
		 	Range [1.100 : 1.300]
		 	Range [1.300 : 1.500]
		 	Range [1.500 : 1.700]
		 	Range [1.700 : 1.900]
		 	Range [> 1.900]

File Name (A3): R02/Appendix31/3685_459.dgn
20160830 16.16

FIGURE 3

Property 213 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

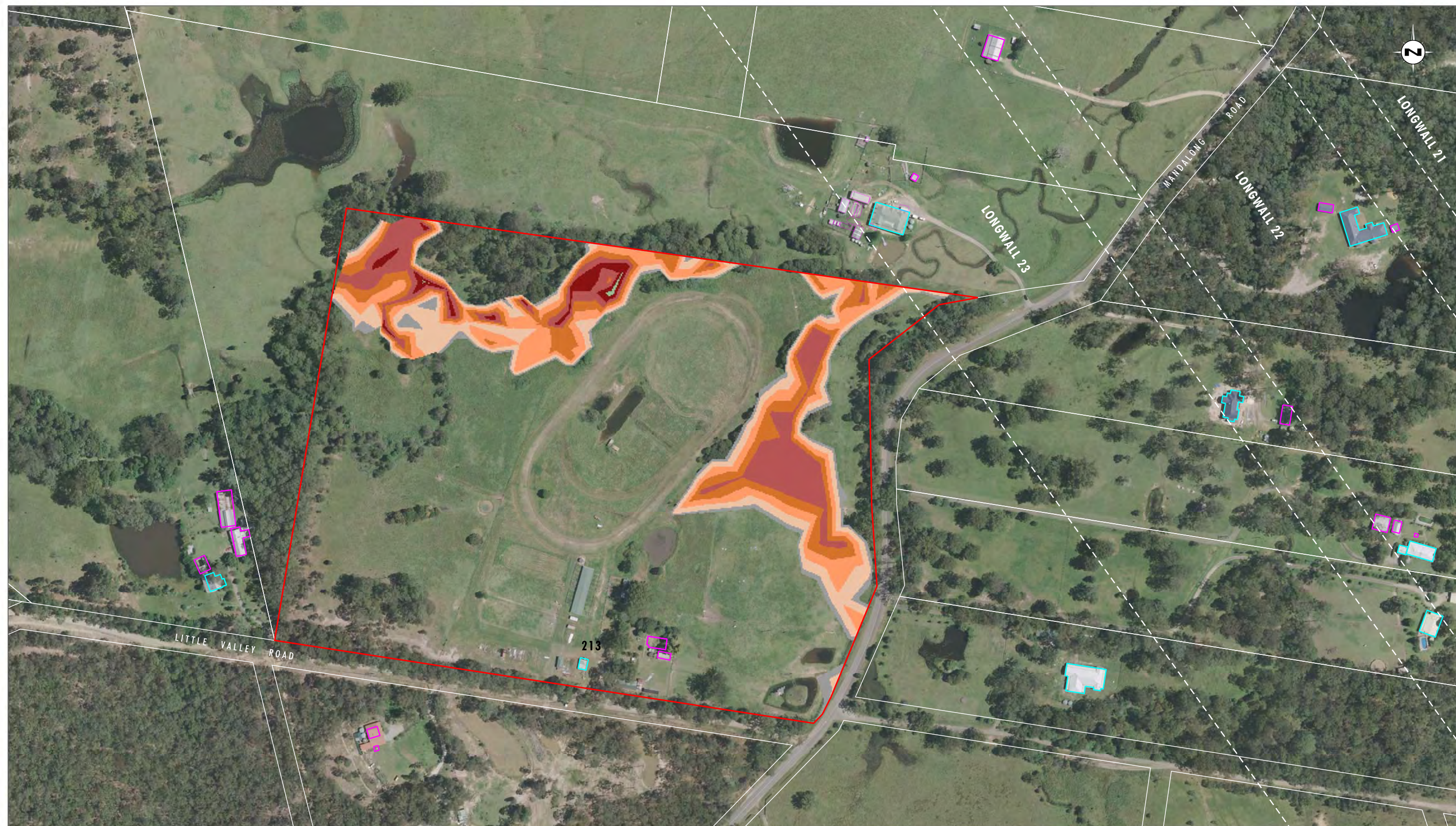


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
 	Property 213	 	Range [0.900 : 1.100]
 	Longwall Locations	 	Range [0.001 : 0.100]
 	Dwelling	 	Range [0.100 : 0.300]
 	Other Structure	 	Range [0.300 : 0.500]
 	Cadastral Boundary	 	Range [0.500 : 0.700]
		 	Range [0.700 : 0.900]
		 	Range [1.100 : 1.300]
		 	Range [1.300 : 1.500]
		 	Range [1.500 : 1.700]
		 	Range [1.700 : 1.900]
		 	Range [>1.900]

File Name (A3): R02/Appendix31/3685_460.dgn
20160830 16.19

FIGURE 4

Property 213 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



APPENDIX 32

**Flooding Assessment Figures -
Properties 218 & 223**

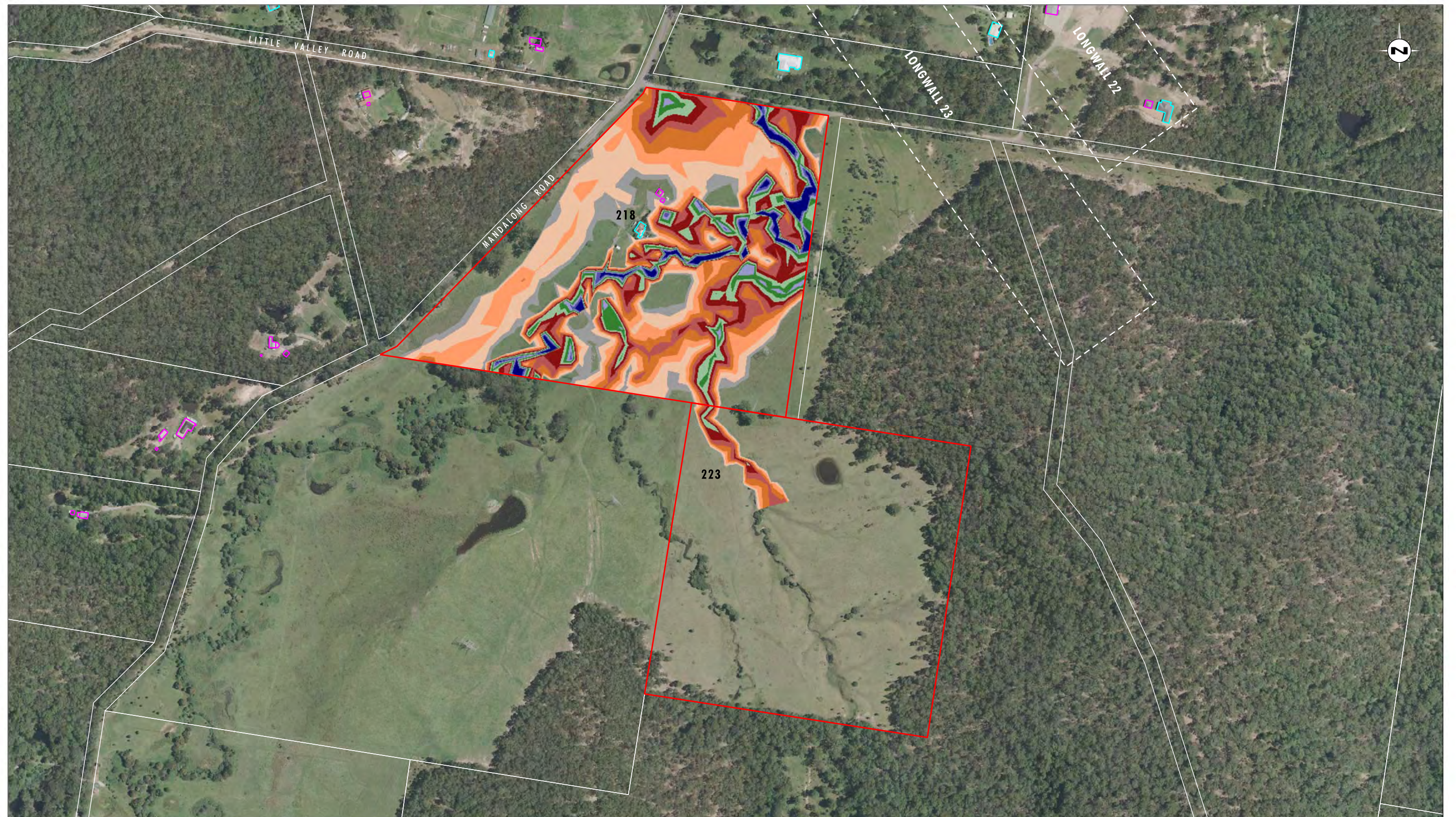


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 100 200 250m
1:5000 (A3)

Legend	
	Property 218 & 223
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary

Water Depth (m)	
	Range [0.001 : 0.100]
	Range [0.100 : 0.300]
	Range [0.300 : 0.500]
	Range [0.500 : 0.700]
	Range [0.700 : 0.900]
	Range [0.900 : 1.100]
	Range [1.100 : 1.300]
	Range [1.300 : 1.500]
	Range [1.500 : 1.700]
	Range [1.700 : 1.900]
	Range [> 1.900]

File Name (A3): R02/Appendix32/3685_461.dgn
20160831 12.46

FIGURE 1

Property 218 & 223 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

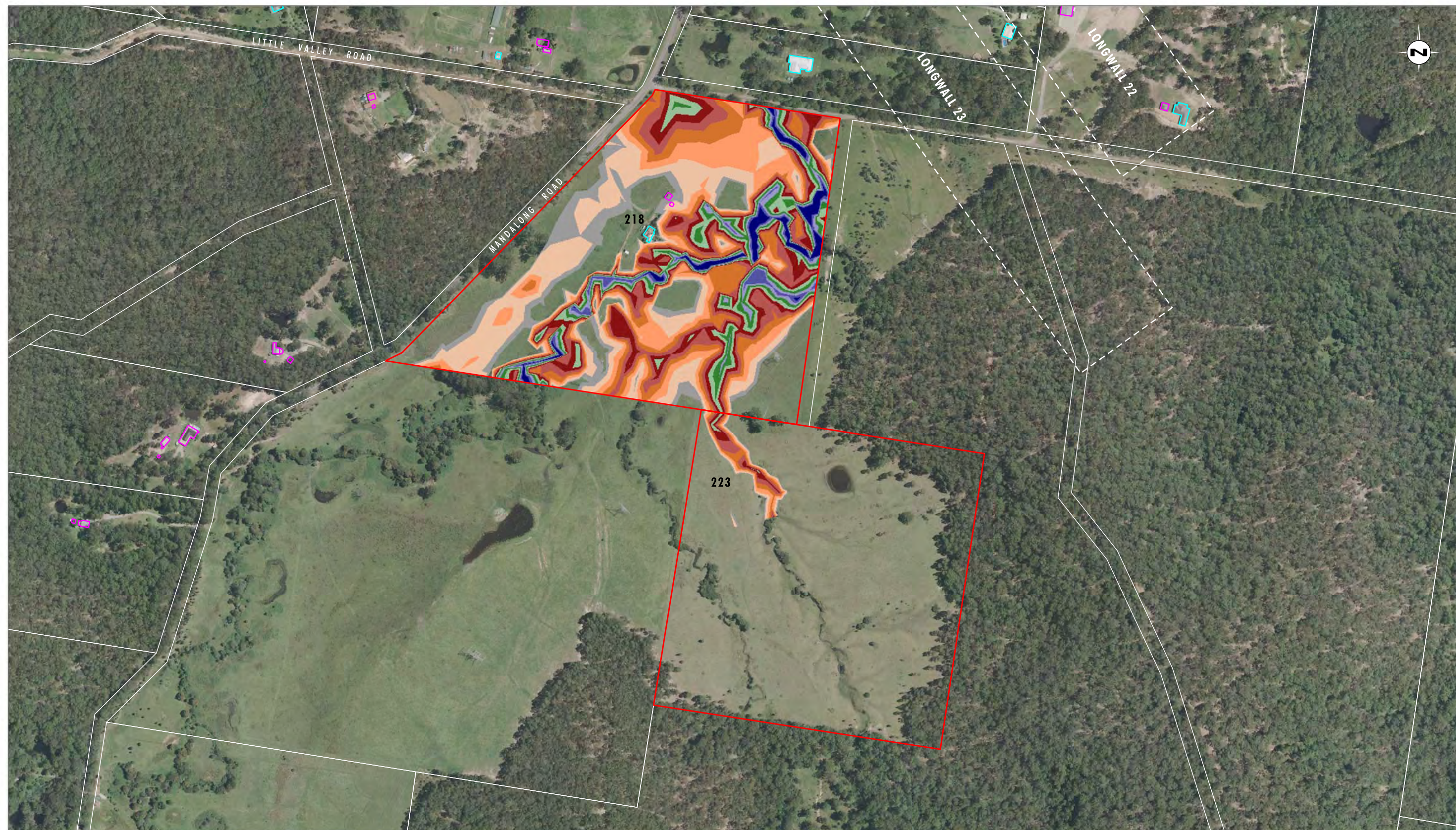


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 100 200 250m
1:5000 (A3)

Legend		Water Depth (m)	
	Property 218 & 223		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [> 1.900]

File Name (A3): R03/Appendix32/3685_462.dgn
20160831 13.02

FIGURE 2

Property 218 & 223 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
	Property 218 & 223
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 3
 Property 218 & 223 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 100 200 250m
 1:5000 (A3)

Legend

- Property 218 & 223
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 4

Property 218 & 223 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)

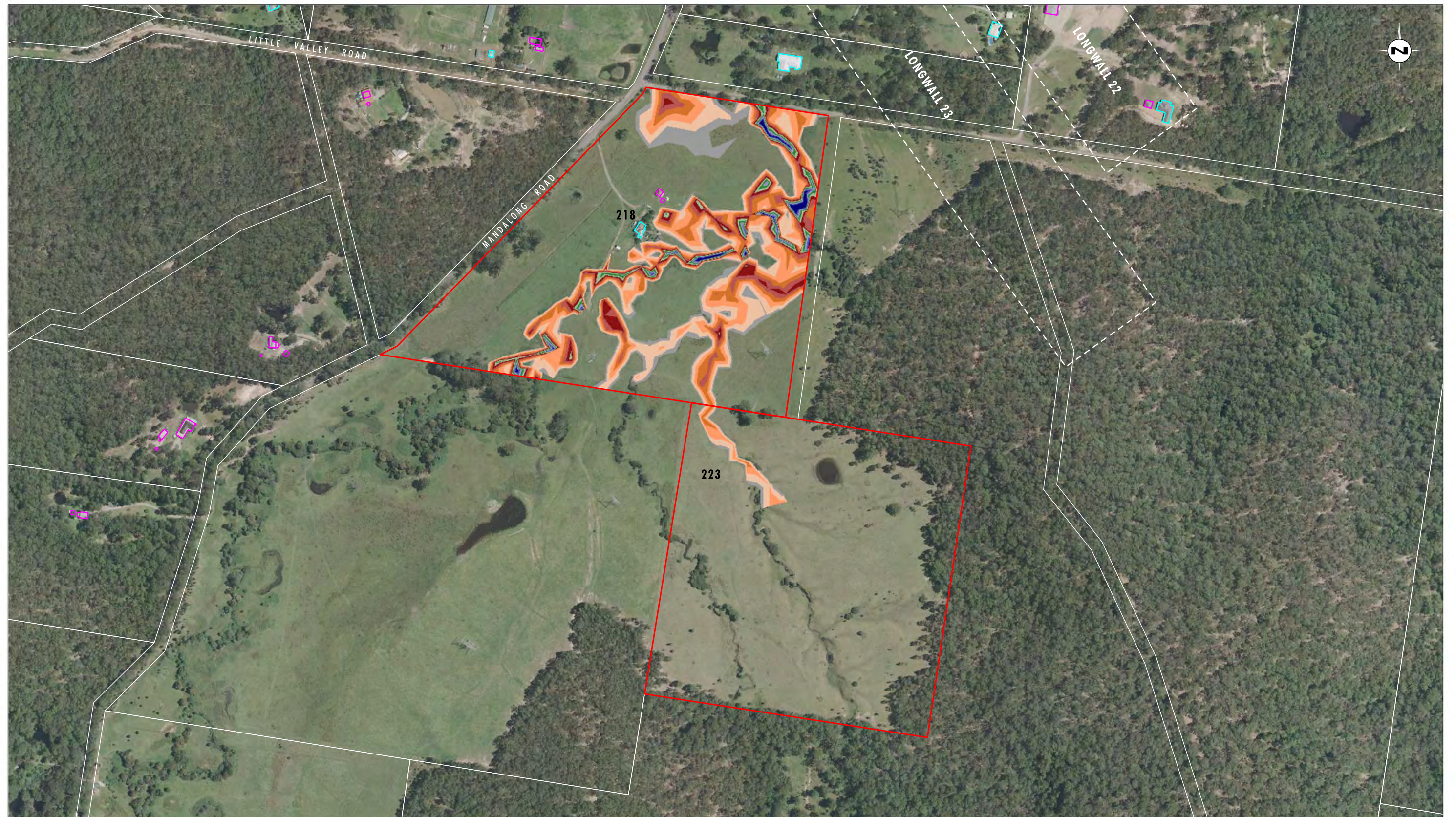


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 100 200 250m
1:5000 (A3)

Legend	
 	Property 218 & 223
 	Longwall Locations
 	Dwelling
 	Other Structure
 	Cadastral Boundary

Water Depth (m)	
	Range [0.001 : 0.100]
	Range [0.100 : 0.300]
	Range [0.300 : 0.500]
	Range [0.500 : 0.700]
	Range [0.700 : 0.900]
	Range [0.900 : 1.100]
	Range [1.100 : 1.300]
	Range [1.300 : 1.500]
	Range [1.500 : 1.700]
	Range [1.700 : 1.900]
	Range [> 1.900]

FIGURE 5

Property 218 & 223 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

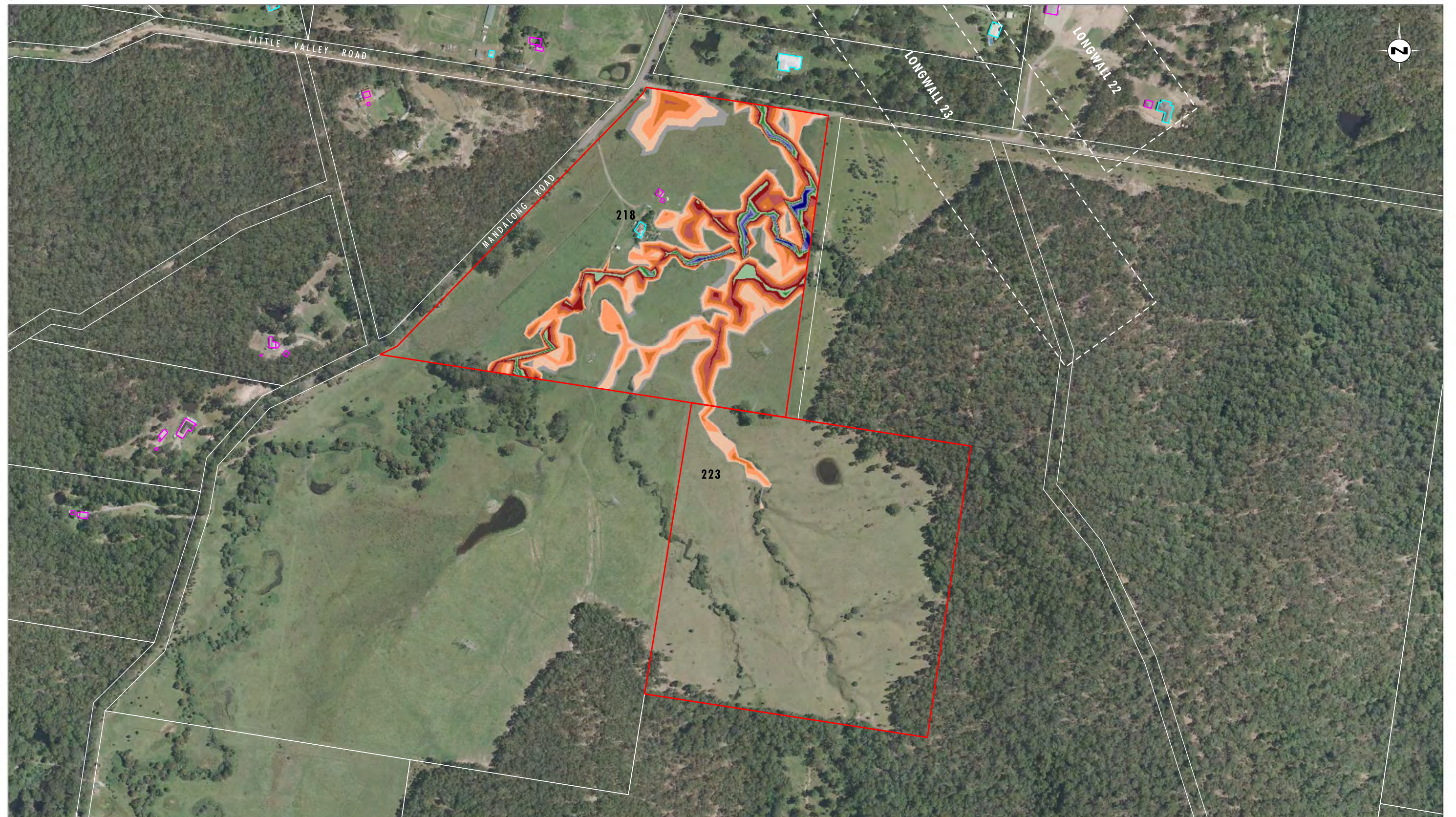


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 100 200 250m
1:5000 (A3)

Legend		Water Depth (m)	
	Property 218 & 223		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [> 1.900]

File Name (A3): R02/Appendix32/3685_466.dgn
20160831 13.11

FIGURE 6

Property 218 & 223 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
	Property 218 & 223
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 7

Property 218 & 223 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform

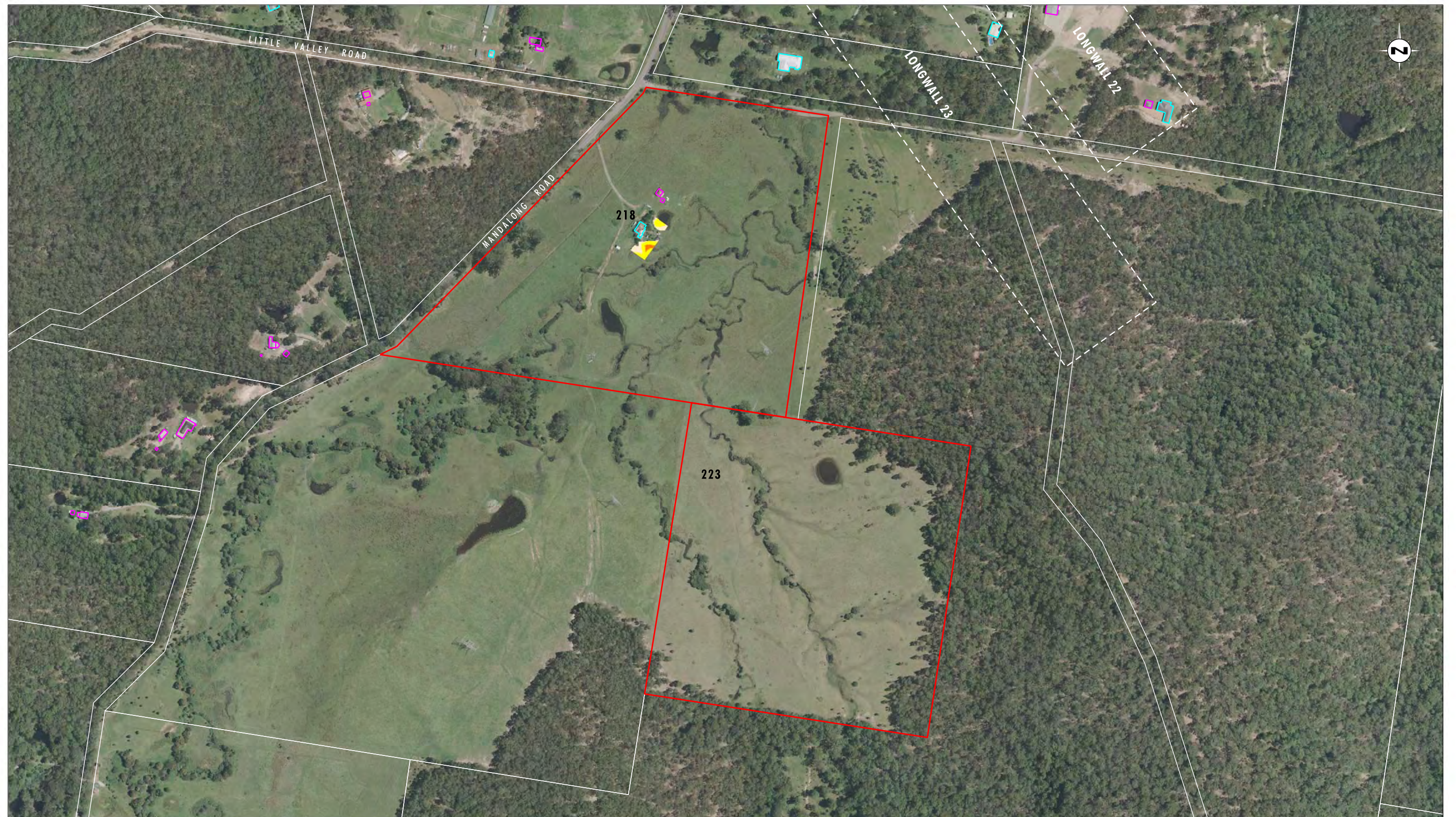


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 100 200 250m
 1:5000 (A3)

Legend

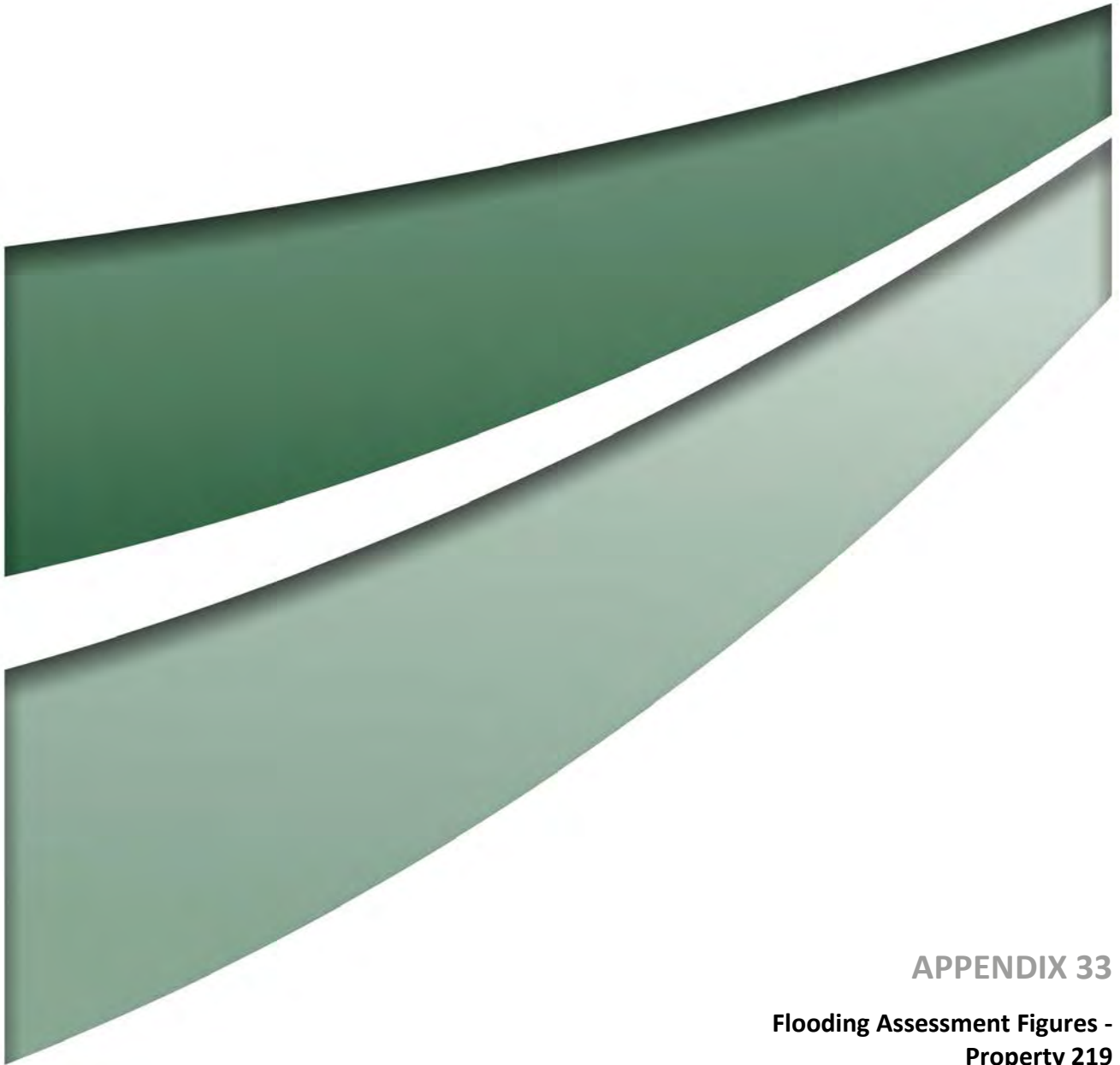
- Property 218 & 223
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 8

Property 218 & 223 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



APPENDIX 33

Flooding Assessment Figures -
Property 219



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 219	Water Depth (m)	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
	 Range [0.700 : 0.900]	 Range [>1.900]

FIGURE 1

Property 219 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 219	Water Depth (m)	
 Longwall Locations	 Range [0.001 : 0.100]	 Range [0.900 : 1.100]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.100 : 1.300]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.300 : 1.500]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.500 : 1.700]
	 Range [0.700 : 0.900]	 Range [1.700 : 1.900]
		 Range [>1.900]

FIGURE 2

Property 219 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
 	Property 219
 	Longwall Locations
 	Dwelling
 	Other Structure
 	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 3

Property 219 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
 	Property 219
 	Longwall Locations
 	Dwelling
 	Other Structure
 	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 4
 Property 219 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 24A)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 219	Water Depth (m)	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
	 Range [0.700 : 0.900]	 Range [>1.900]

FIGURE 5

Property 219 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
Property 219	Range [0.001 : 0.100]	Range [0.900 : 1.100]	
Longwall Locations	Range [0.100 : 0.300]	Range [1.100 : 1.300]	
Dwelling	Range [0.300 : 0.500]	Range [1.300 : 1.500]	
Other Structure	Range [0.500 : 0.700]	Range [1.500 : 1.700]	
Cadastral Boundary	Range [0.700 : 0.900]	Range [1.700 : 1.900]	
		Range [> 1.900]	

FIGURE 6

Property 219 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend	
Property 219	
Longwall Locations	
Dwelling	
Other Structure	
Cadastral Boundary	
Hazard Category	
Low Hazard - Unclassified hazard	
Low Hazard - Vehicles unstable	
High Hazard - Wading unsafe	
High Hazard - Damage to light structures	

FIGURE 7

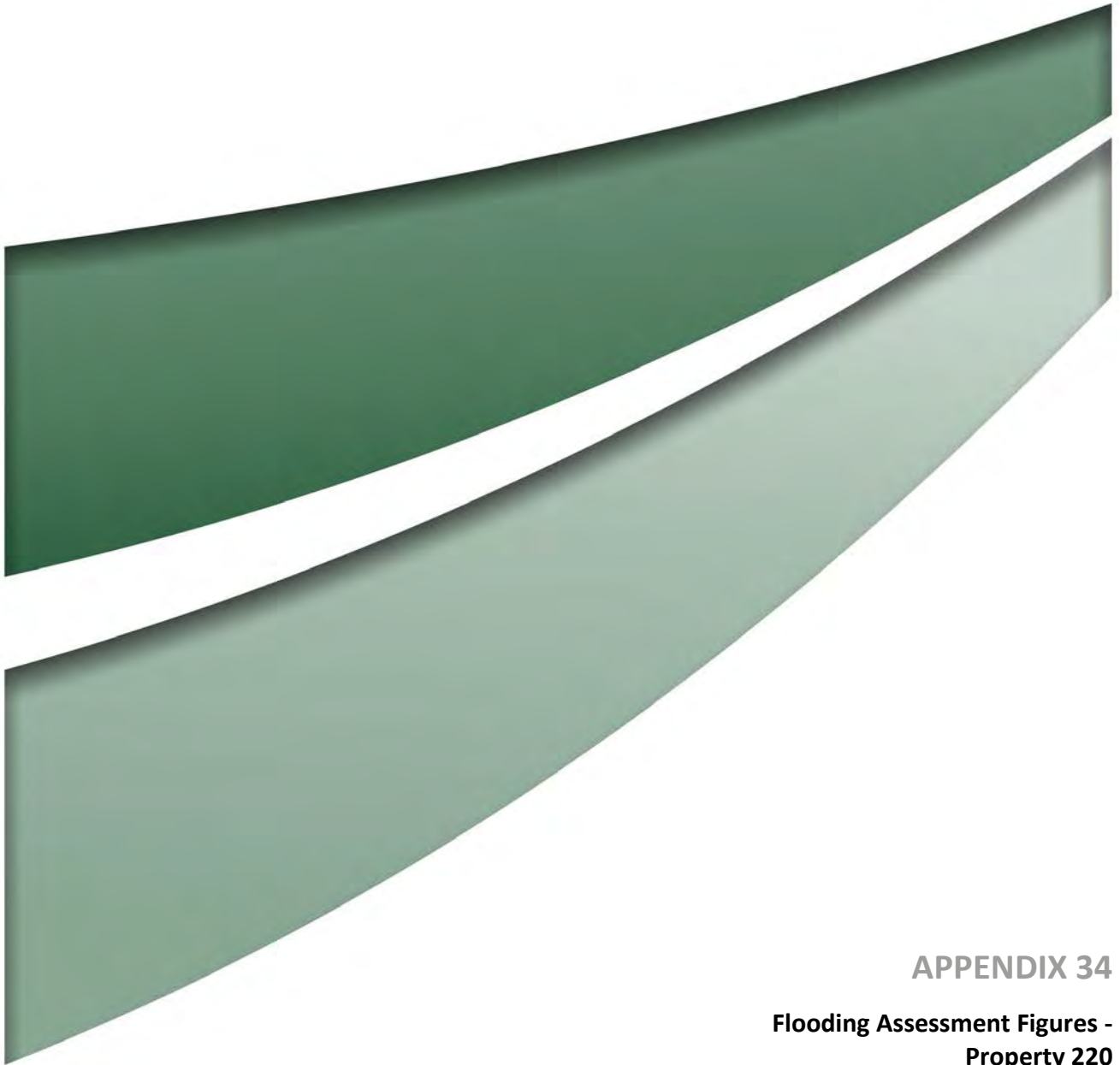
Property 219 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend		Hazard Category	
	Property 219		Low Hazard - Unclassified hazard
	Longwall Locations		Low Hazard - Vehicles unstable
	Dwelling		High Hazard - Wading unsafe
	Other Structure		High Hazard - Damage to light structures
	Cadastral Boundary		

FIGURE 8
 Property 219 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



APPENDIX 34

Flooding Assessment Figures -
Property 220



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 220		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [>1.900]

FIGURE 1

Property 220 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 220	Water Depth (m)	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
	 Range [0.700 : 0.900]	 Range [> 1.900]

FIGURE 2

Property 220 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
Note: Flood Hazard shown for access and dwellings only

Legend	
 	Property 220
 	Longwall Locations
 	Dwelling
 	Other Structure
 	Cadastral Boundary
Hazard Category	
 	Low Hazard - Unclassified hazard
 	Low Hazard - Vehicles unstable
 	High Hazard - Wading unsafe
 	High Hazard - Damage to light structures

FIGURE 3

Property 220 - 100 Year ARI Storm Event:
Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend	
 	Property 220
 	Longwall Locations
 	Dwelling
 	Other Structure
 	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 4

Property 220 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 220	Water Depth (m)	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
	 Range [0.700 : 0.900]	 Range [>1.900]

FIGURE 5

Property 220 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 220		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [>1.900]

FIGURE 6

Property 220 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
	Property 220
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 7

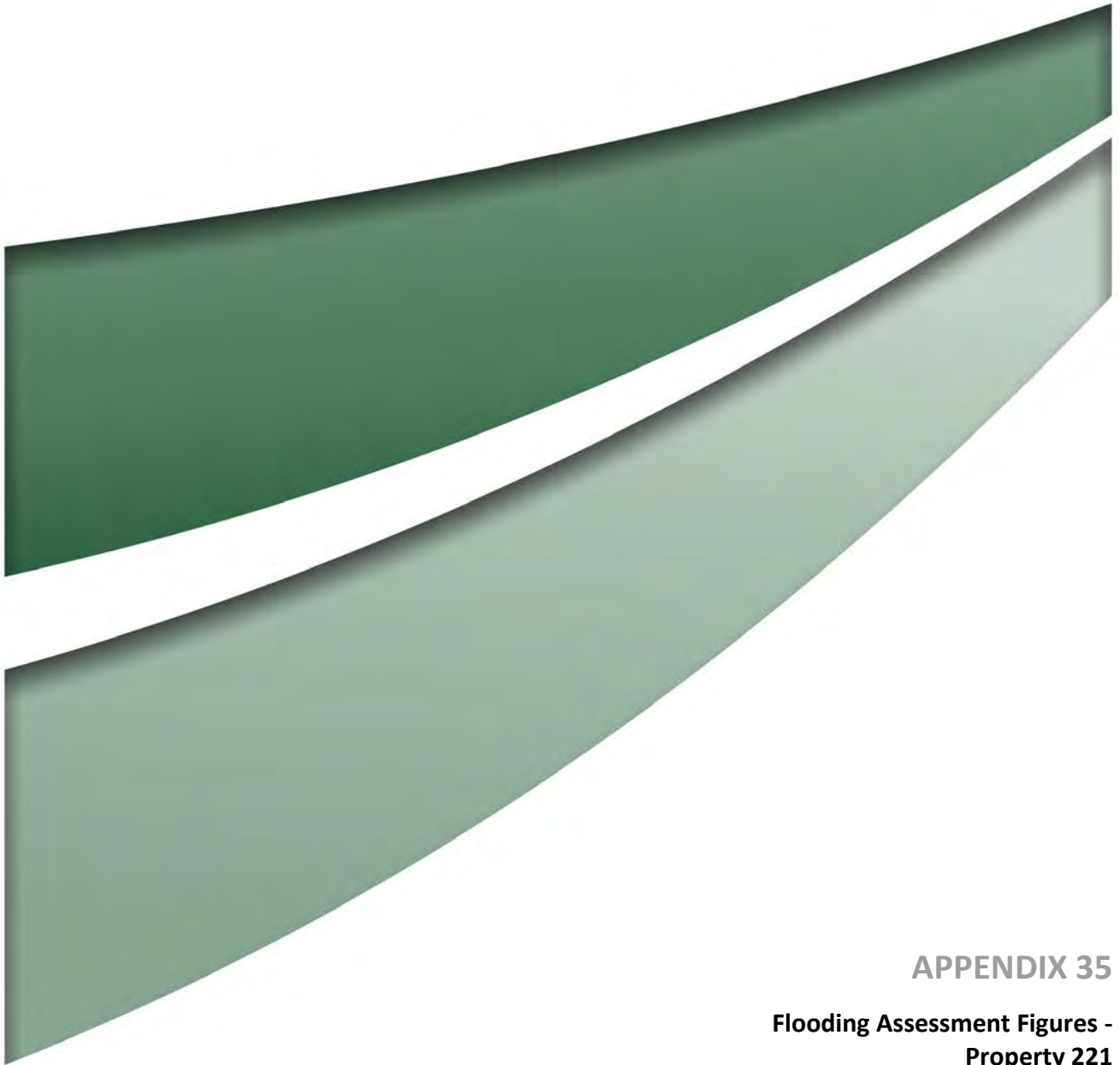
Property 220 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
 Property 220	
 Longwall Locations	
 Dwelling	
 Other Structure	
 Cadastral Boundary	
Hazard Category	
 Low Hazard - Unclassified hazard	
 Low Hazard - Vehicles unstable	
 High Hazard - Wading unsafe	
 High Hazard - Damage to light structures	

FIGURE 8
 Property 220 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



APPENDIX 35

**Flooding Assessment Figures -
Property 221**



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
 	Property 221		Range [0.001 : 0.100]
 	Longwall Locations		Range [0.100 : 0.300]
 	Dwelling		Range [0.300 : 0.500]
 	Other Structure		Range [0.500 : 0.700]
 	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [>1.900]

FIGURE 1

Property 221 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 221	Water Depth (m)	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
	 Range [0.700 : 0.900]	 Range [>1.900]

FIGURE 2

Property 221 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 3

Property 221 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 4

Property 221 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend

- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Water Depth (m)

Range [0.001 : 0.100]	Range [0.900 : 1.100]
Range [0.100 : 0.300]	Range [1.100 : 1.300]
Range [0.300 : 0.500]	Range [1.300 : 1.500]
Range [0.500 : 0.700]	Range [1.500 : 1.700]
Range [0.700 : 0.900]	Range [1.700 : 1.900]
	Range [1.900 : 2.100]

FIGURE 5

Property 221 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend

- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Water Depth (m)

Range [0.001 : 0.100]	Range [0.900 : 1.100]
Range [0.100 : 0.300]	Range [1.100 : 1.300]
Range [0.300 : 0.500]	Range [1.300 : 1.500]
Range [0.500 : 0.700]	Range [1.500 : 1.700]
Range [0.700 : 0.900]	Range [1.700 : 1.900]
	Range [>1.900]

FIGURE 6

Property 221 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 7

Property 221 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

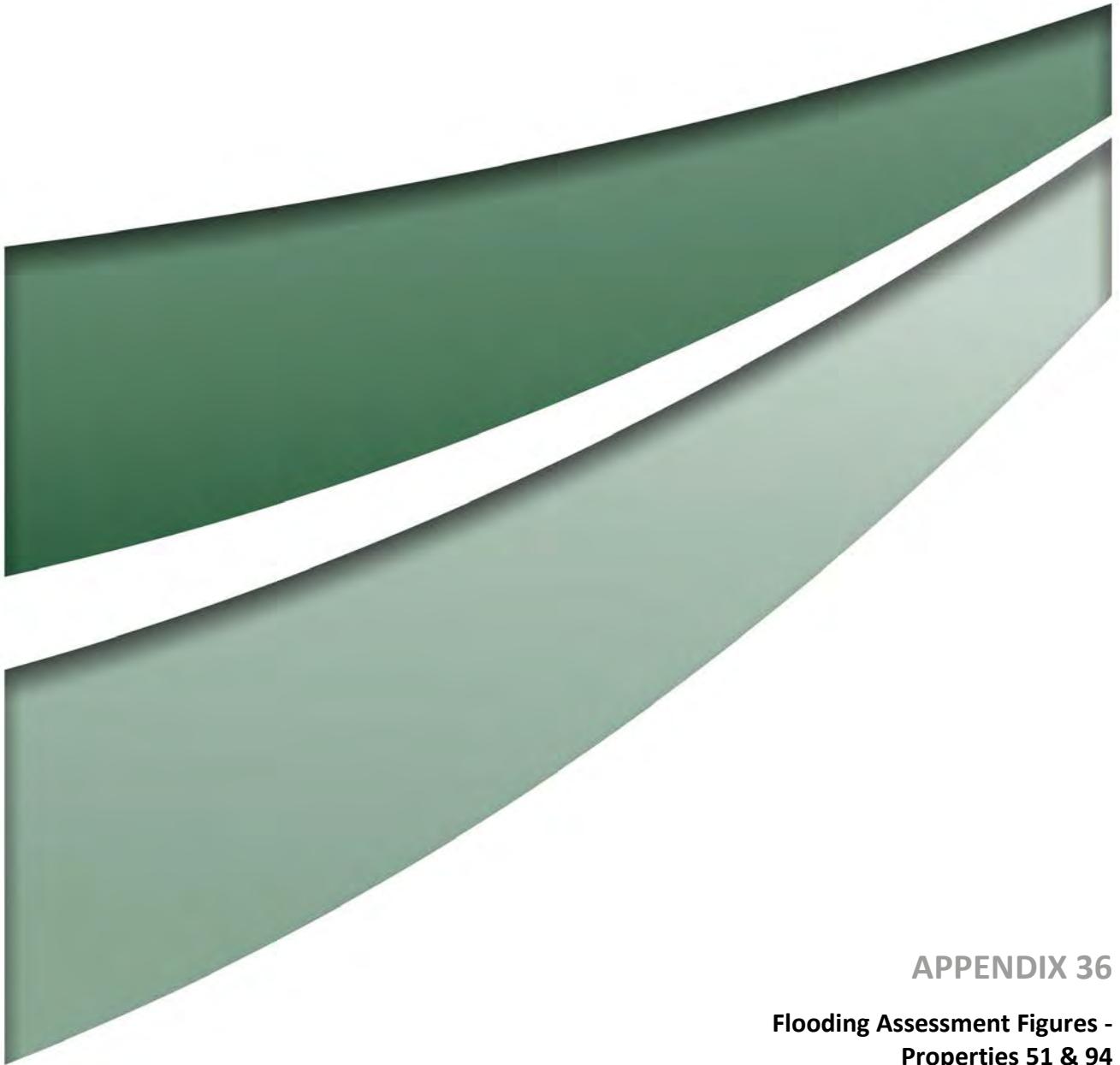
- Property 221
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 8

Property 221 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



APPENDIX 36

**Flooding Assessment Figures -
Properties 51 & 94**



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 51 & 94		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [>1.900]

File Name (A3): R02/Appendix36/3685_493.dgn
20160831 14.13

FIGURE 1

Property 51 & 94 - 100 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 51 & 94		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		Range [0.700 : 0.900]
			Range [0.900 : 1.100]
			Range [1.100 : 1.300]
			Range [1.300 : 1.500]
			Range [1.500 : 1.700]
			Range [1.700 : 1.900]
			Range [>1.900]

File Name (A3): R02/Appendix36/3685_494.dgn
20160831 14.14

FIGURE 2

Property 51 & 94 - 100 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 51 & 94
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 3

Property 51 & 94 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

- | Legend | |
|--|--------------------|
| | Property 51 & 94 |
| | Longwall Locations |
| | Dwelling |
| | Other Structure |
| | Cadastral Boundary |
- | Hazard Category | |
|---|--|
| | Low Hazard - Unclassified hazard |
| | Low Hazard - Vehicles unstable |
| | High Hazard - Wading unsafe |
| | High Hazard - Damage to light structures |

File Name (A3): R02/Appendix36/3685_496.dgn
 20160831 14.19

FIGURE 4
 Property 51 & 94 - 100 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 24A)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 51 & 94	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [>1.900]

File Name (A3): R02/Appendix36/3685_497.dgn
20160831 14.20

FIGURE 5

Property 51 & 94 - 1 Year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 51 & 94	 Range [0.001 : 0.100]	 Range [1.100 : 1.300]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.300 : 1.500]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.500 : 1.700]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.700 : 1.900]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [>1.900]

File Name (A3): R02/Appendix36/3685_498.dgn
20160831 14.22

FIGURE 6

Property 51 & 94 - 1 Year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

Legend	
	Property 51 & 94
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 7
 Property 51 & 94 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 51 & 94
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 8

Property 51 & 94 - 1 Year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)