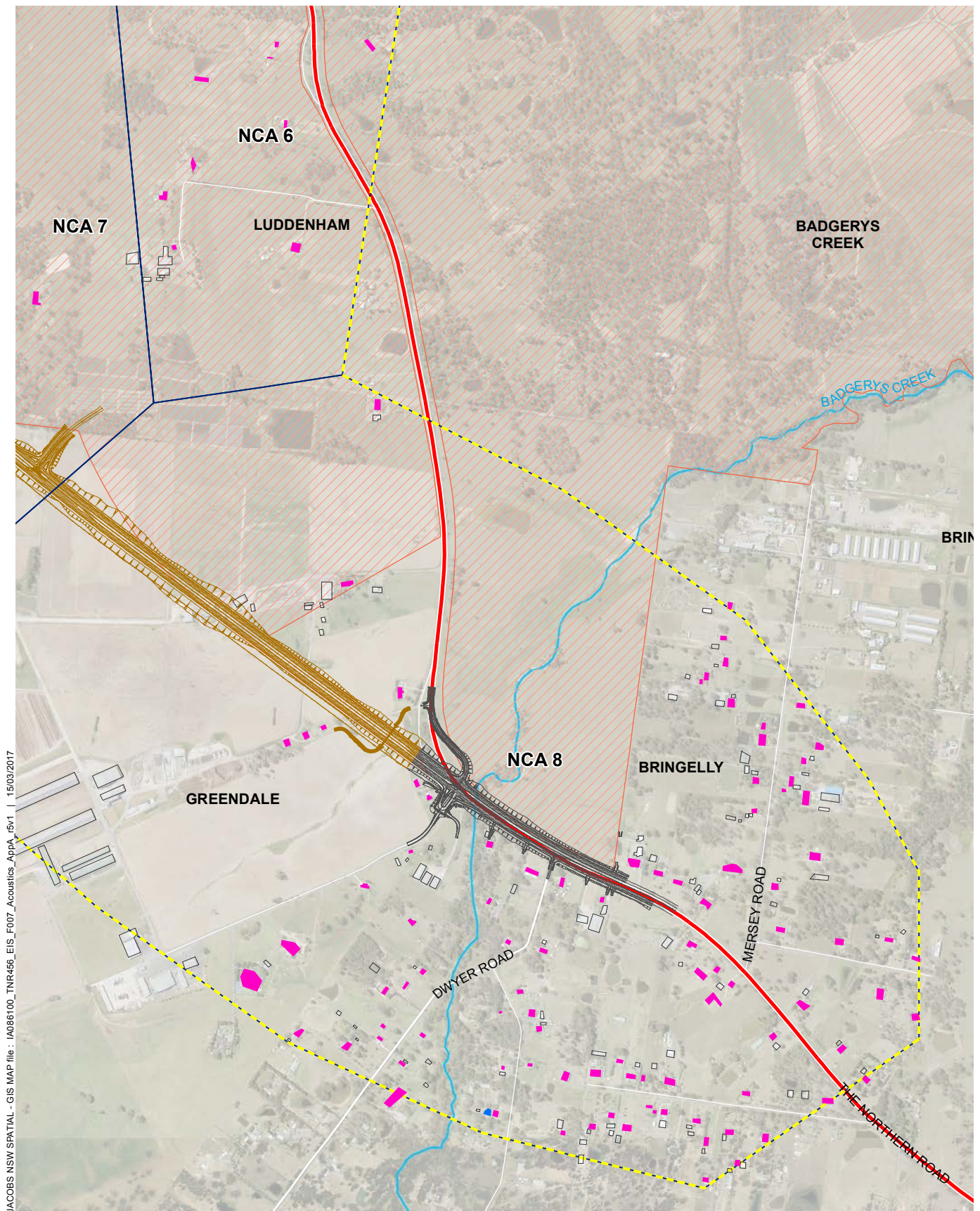


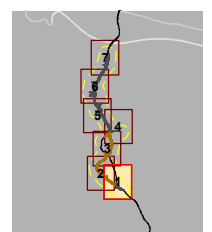
Appendix A. Noise sensitive receivers considered in this assessment

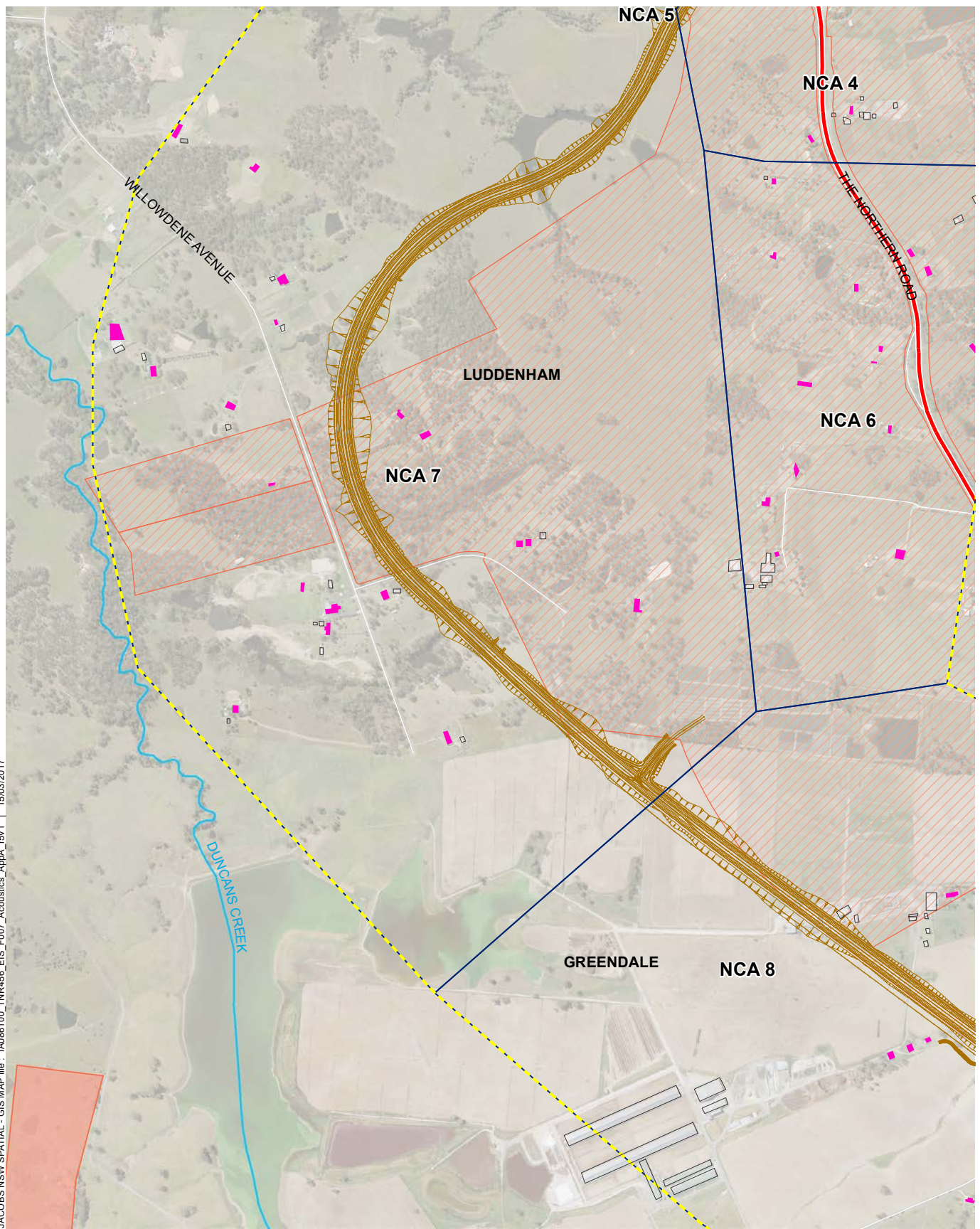


JACOBS NSW SPATIAL - GIS MAP file : IA086100_TNR456_EIS_F007_Acoustics_AppA_r5v1 | 15/03/2017

- | | |
|---|---|
| — The Northern Road (Existing) | Noise sensitive receivers |
| — Redeveloped road sections | (by land use) |
| — New road sections | Residential |
| Noise catchment areas | Educational |
| Western Sydney Airport site (Commonwealth Land) | Place of Worship |
| Defence Establishment | Active Recreation |
| Orchard Hills (Commonwealth Land) | Commercial |
| Commonwealth lands | Not acoustically sensitive |
| Study area | |

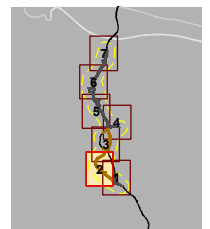
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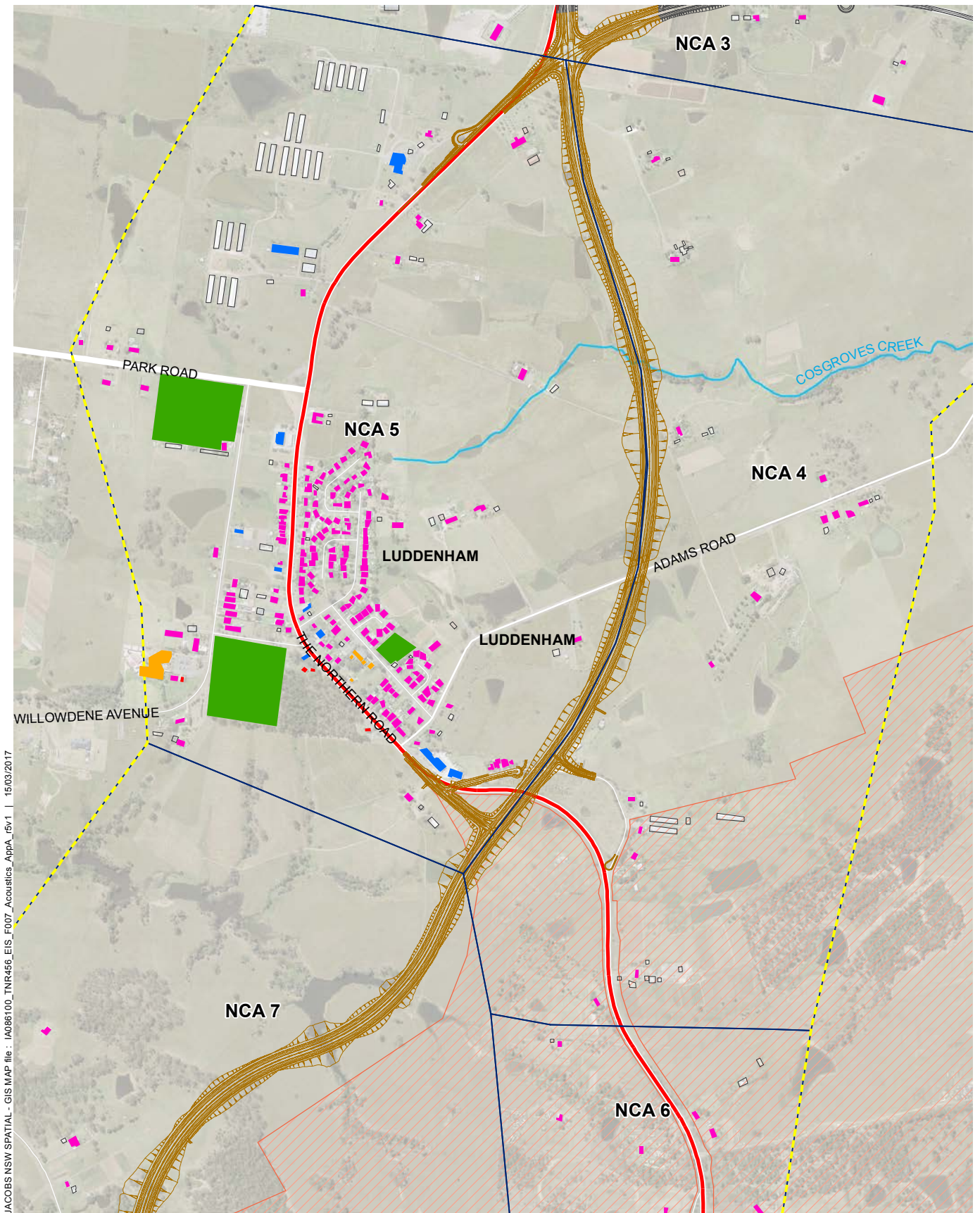




- | | |
|--|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| Noise catchment areas | Place of Worship |
| Western Sydney Airport site (Commonwealth Land) | Active Recreation |
| Defence Establishment | Commercial |
| Orchard Hills (Commonwealth Land) | Not acoustically sensitive |
| Commonwealth lands | |
| Study area | |

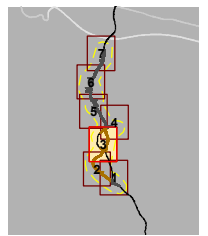
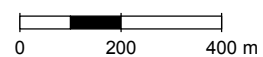
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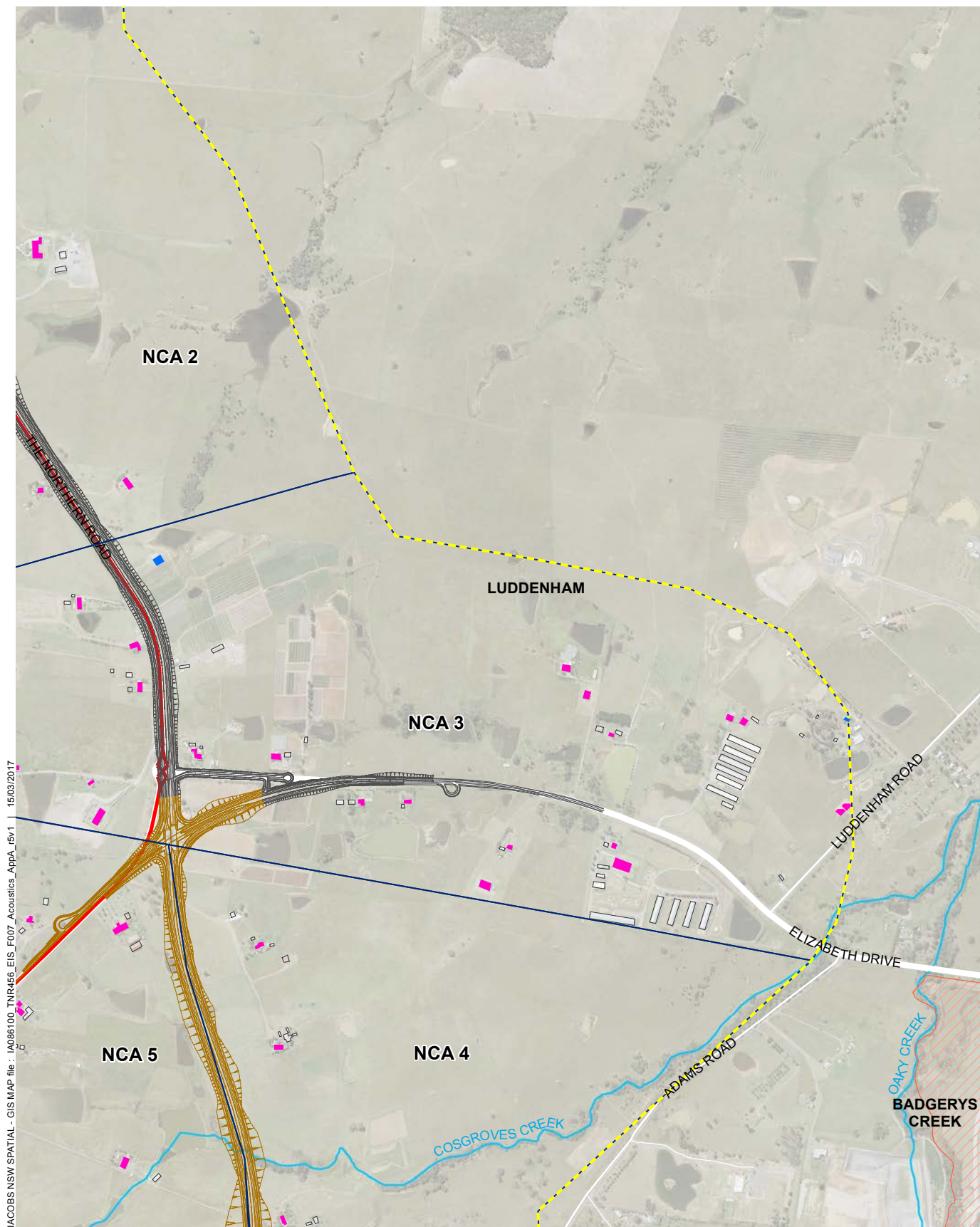




JACOBS NSW SPATIAL - GIS MAP file : JA086100_TNR456_EIS_F007_Acoustics_AppA_r5v1 | 15/03/2017

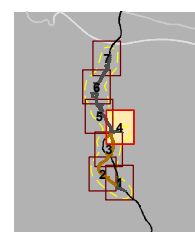
- | | |
|--|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| Noise catchment areas | Place of Worship |
| Western Sydney Airport site (Commonwealth Land) | Active Recreation |
| Defence Establishment | Commercial |
| Orchard Hills (Commonwealth Land) | Not acoustically sensitive |
| Commonwealth lands | |
| Study area | |

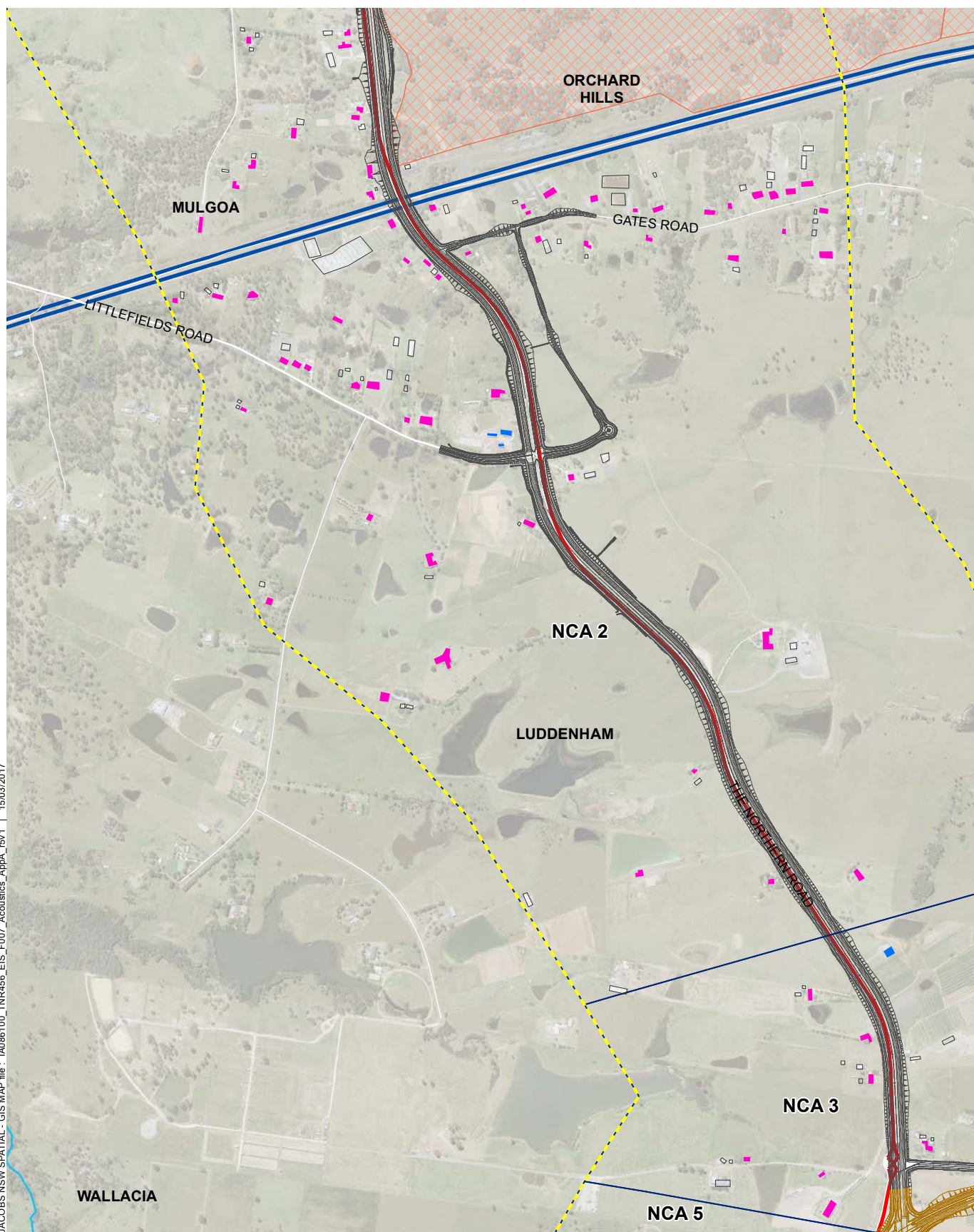




- | | |
|--|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| Noise catchment areas | Place of Worship |
| Western Sydney Airport site (Commonwealth Land) | Active Recreation |
| Defence Establishment | Commercial |
| Orchard Hills (Commonwealth Land) | Not acoustically sensitive |
| Commonwealth lands | |
| Study area | |

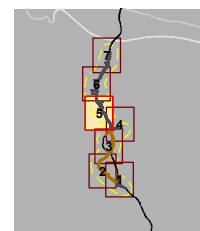
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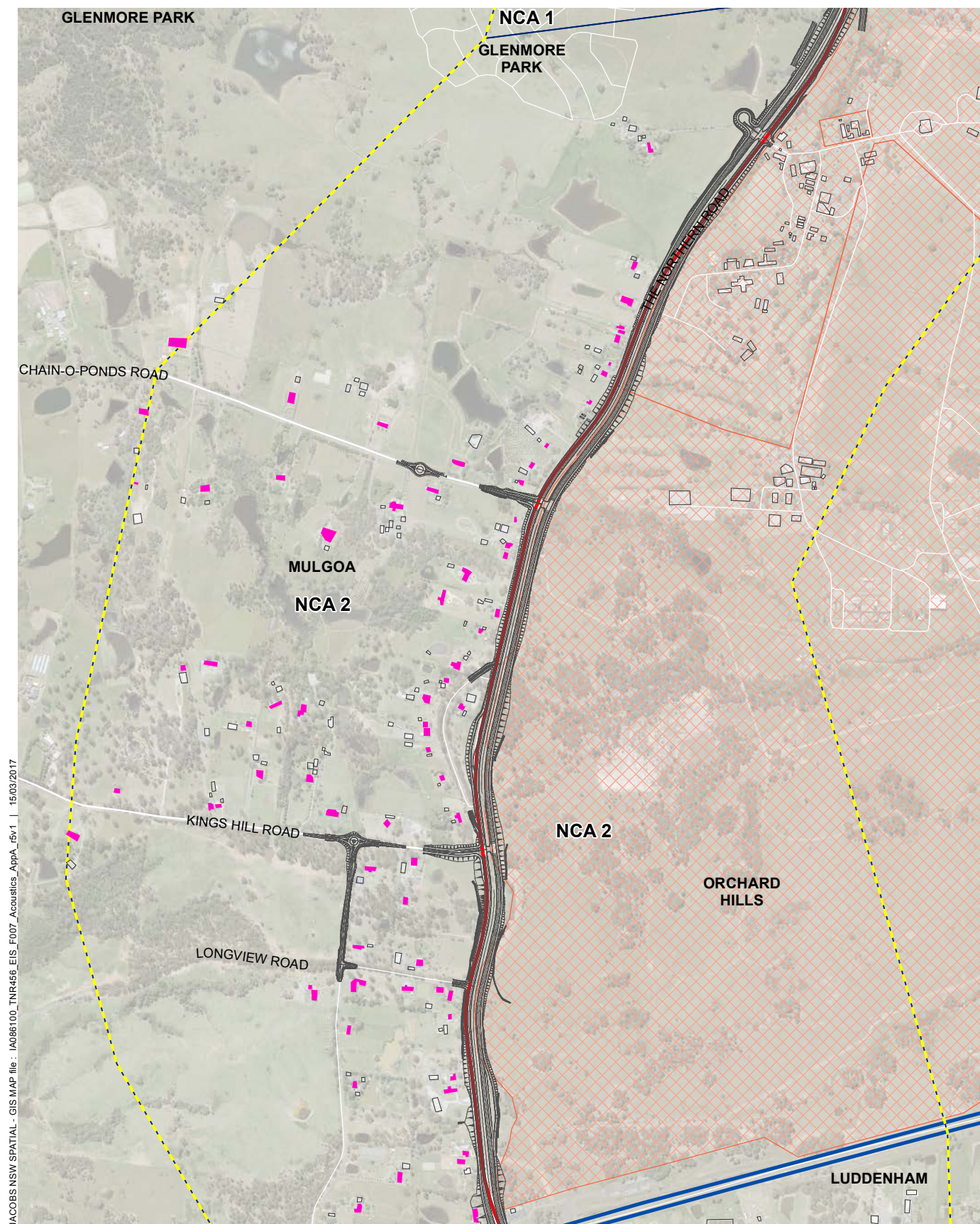




- | | |
|--|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| — WaterNSW supply pipelines | Place of Worship |
| Noise catchment areas | Active Recreation |
| Western Sydney Airport site (Commonwealth Land) | Commercial |
| Defence Establishment | Not acoustically sensitive |
| Orchard Hills (Commonwealth Land) | |
| Commonwealth lands | |
| Study area | |

0 200 400 m

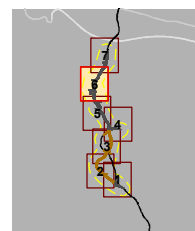


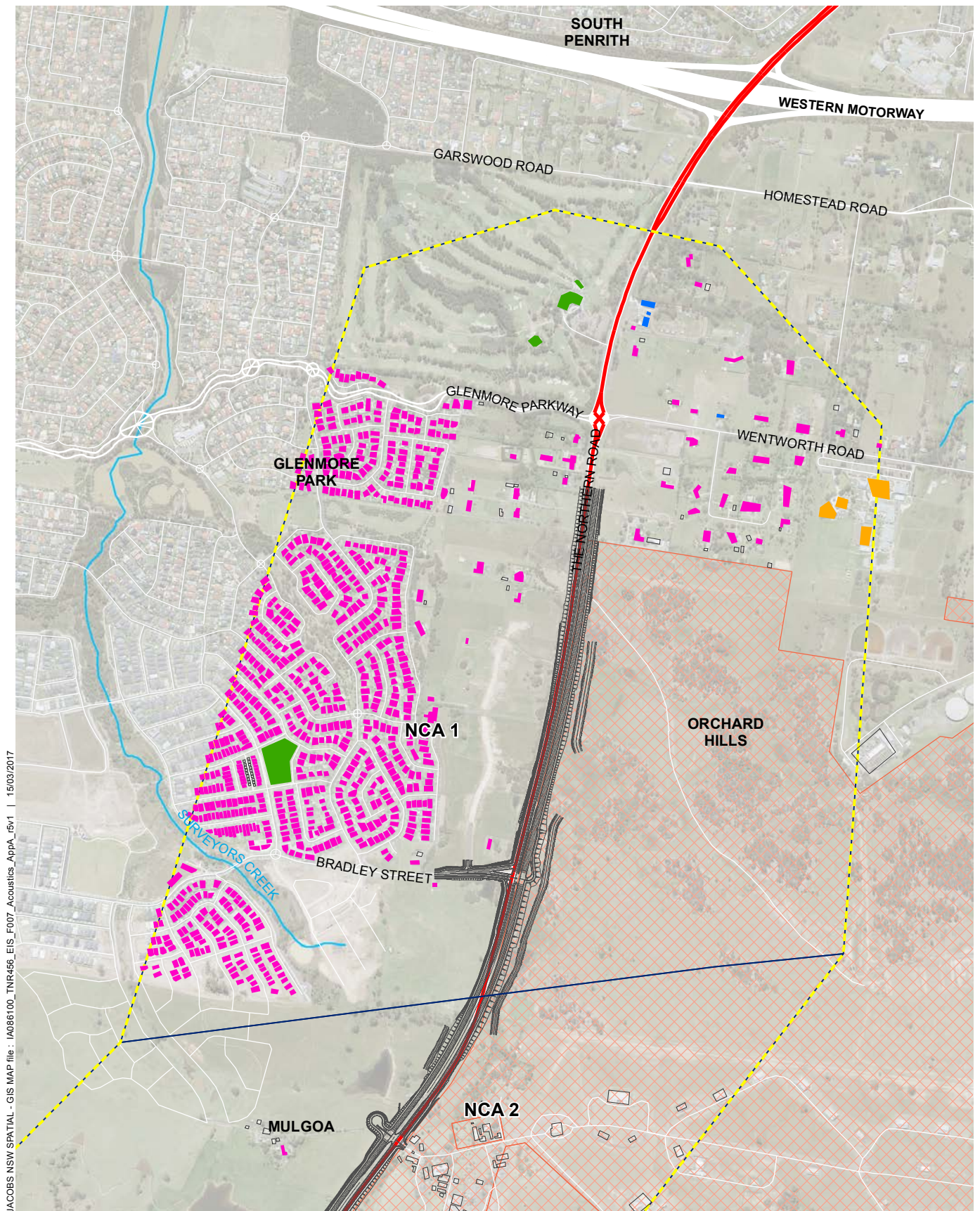


JACOBS NSW SPATIAL - GIS MAP file : I4086100_TNR456_EIS_F007_Acoustics_AppA_r5v1 | 15/03/2017

- | | |
|---|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| — WaterNSW supply pipelines | Place of Worship |
| Noise catchment areas | Active Recreation |
| Western Sydney Airport site (Commonwealth Land) | Commercial |
| Defence Establishment Orchard Hills (Commonwealth Land) | Not acoustically sensitive |
| Commonwealth lands | |
| Study area | |

0 200 400 m

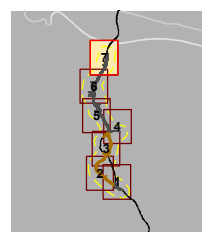




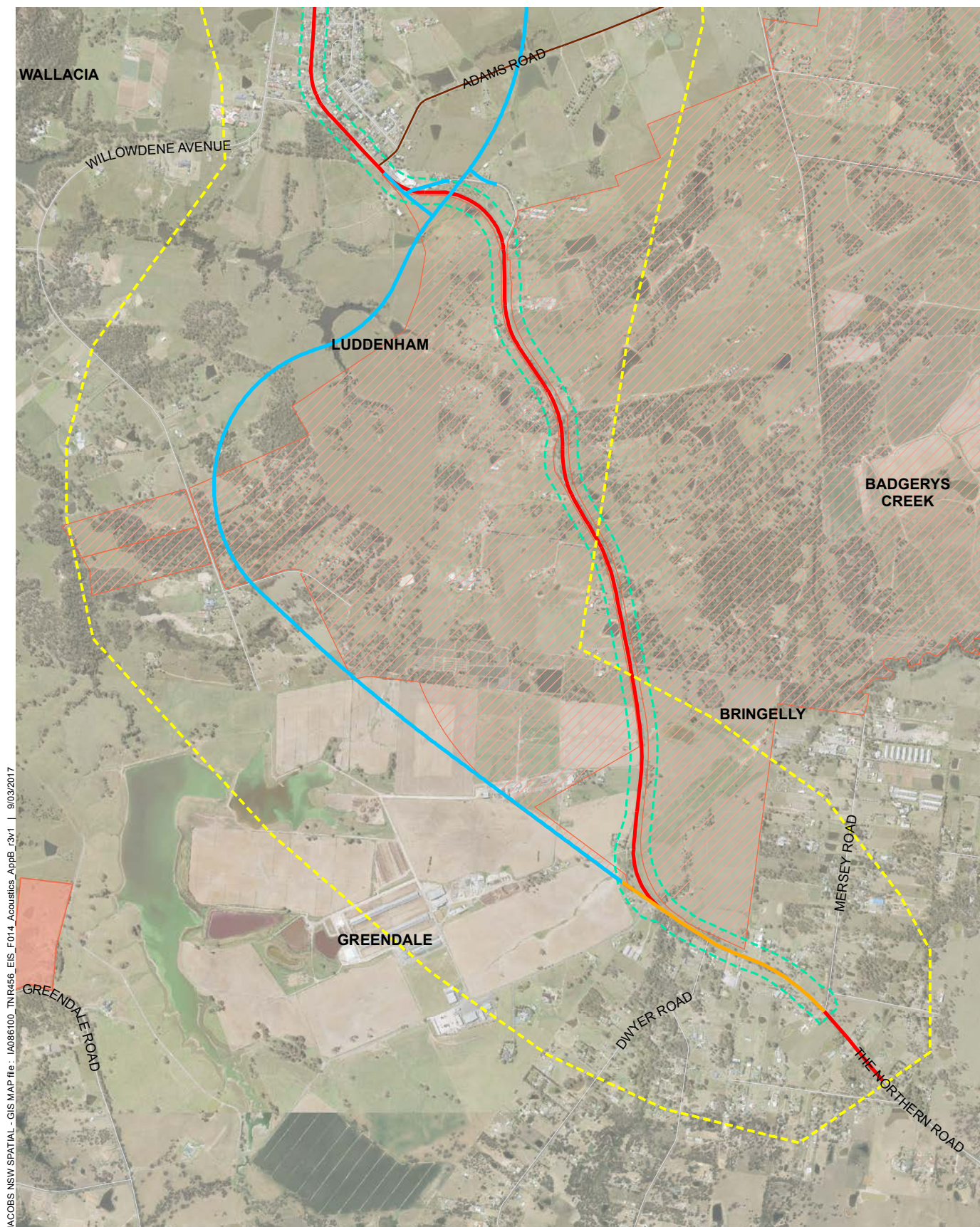
JACOBS NSW SPATIAL - GIS MAP file : JA086100_TNR456_EIS_F007_Acoustics_AppA_r5v1 | 15/03/2017

- | | |
|---|---|
| — The Northern Road (Existing) | Noise sensitive receivers (by land use) |
| — Redeveloped road sections | Residential |
| — New road sections | Educational |
| — Noise catchment areas | Place of Worship |
| Western Sydney Airport site (Commonwealth Land) | Active Recreation |
| Defence Establishment | Commercial |
| Orchard Hills (Commonwealth Land) | Not acoustically sensitive |
| Commonwealth lands | |
| Study area | |

0 200 400 m



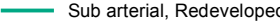
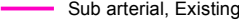
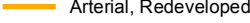
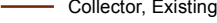
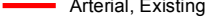
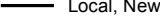
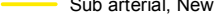
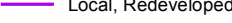
Appendix B. Road Functional Classes and Road Development Types Assessed

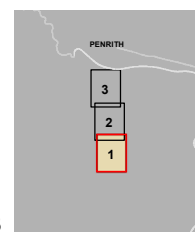
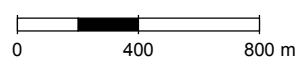


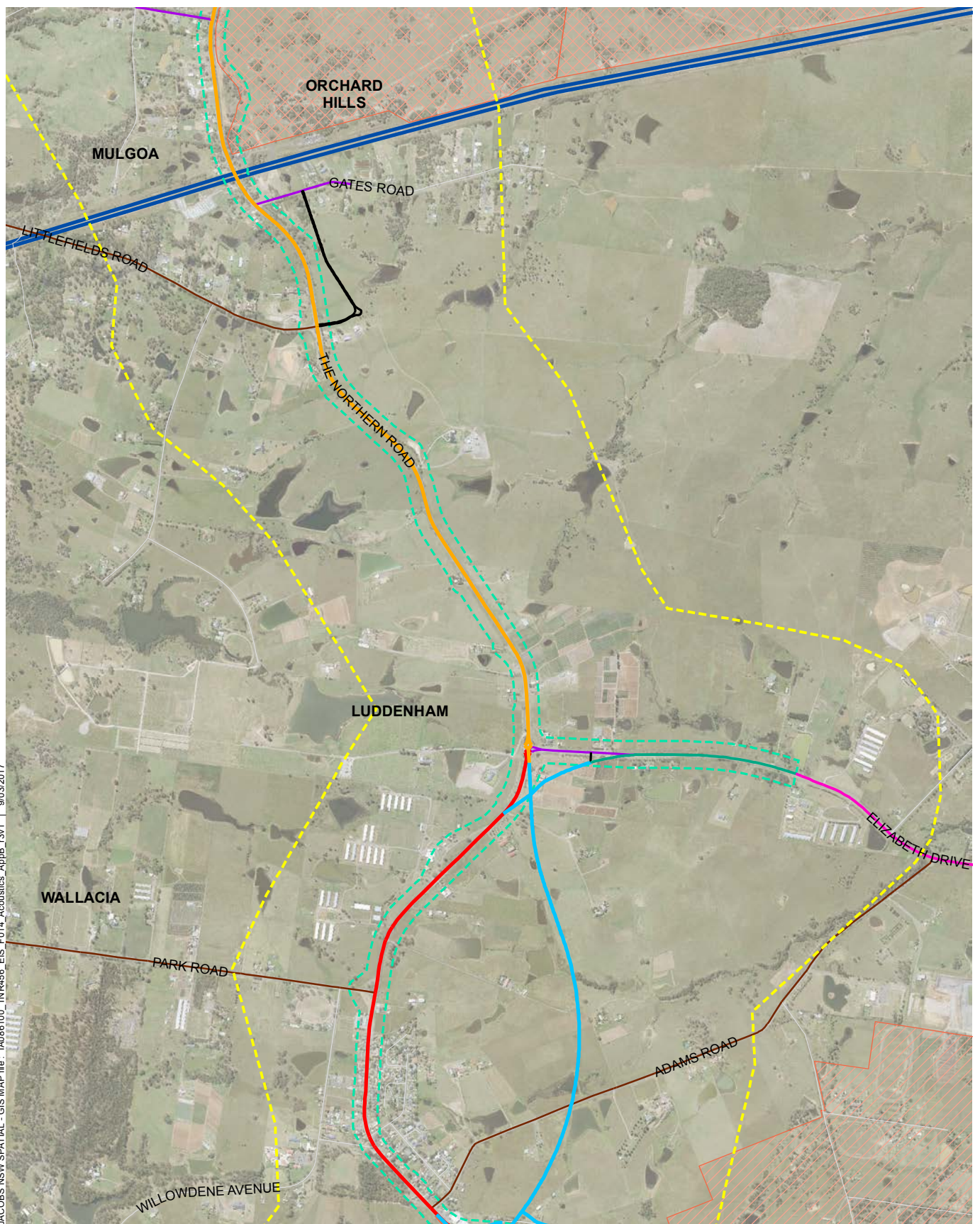
JACOBS NSW SPATIAL - GIS MAP file : I\A086100 TNR456 EIS_F014 Acoustics AppB_r3v1 | 9/03/2017

-  Western Sydney Airport site (Commonwealth Land)
-  Defence Establishment Orchard Hills (Commonwealth Land)
-  Commonwealth lands
-  Study area
-  NCG tolerance band

Functional class, Development type

- | | |
|---|--|
|  Freeway, Existing |  Sub arterial, Redeveloped |
|  Arterial, New |  Sub arterial, Existing |
|  Arterial, Redeveloped |  Collector, Existing |
|  Arterial, Existing |  Local, New |
|  Sub arterial, New |  Local, Redeveloped |



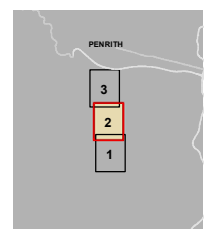


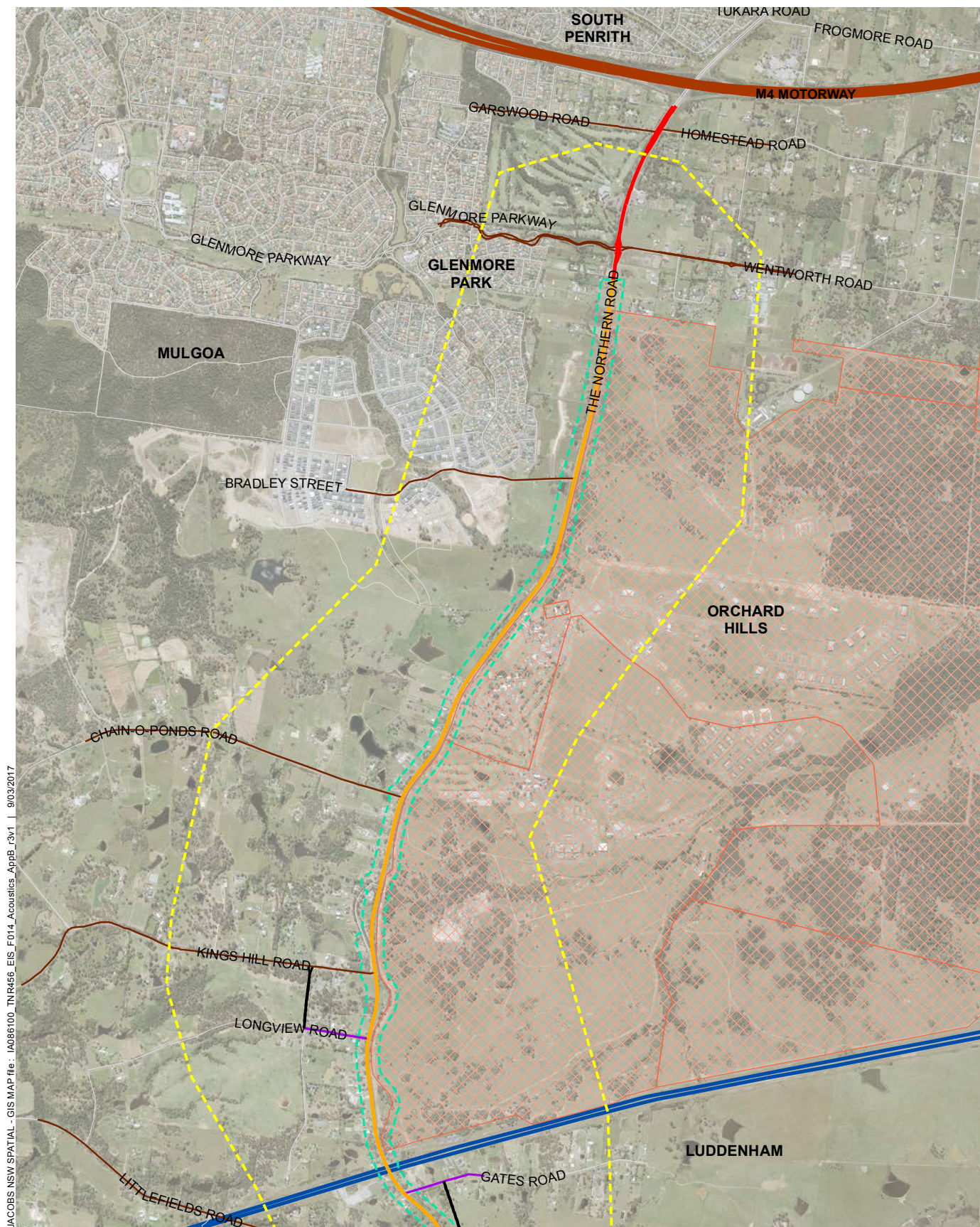
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands
- Study area
- NCG tolerance band
- WaterNSW supply pipelines

Functional class, Development type

- | | |
|-----------------------|---------------------------|
| Freeway, Existing | Sub arterial, Redeveloped |
| Arterial, New | Sub arterial, Existing |
| Arterial, Redeveloped | Collector, Existing |
| Arterial, Existing | Local, New |
| Sub arterial, New | Local, Redeveloped |

0 400 800 m





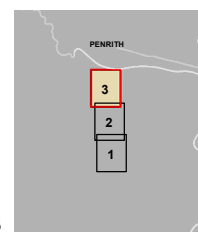
JACOBS NSW SPATIAL - GIS MAP file: IA086100 TNR456 EIS_F014_Acoustics_AppB_r3v1 | 9/03/2017

- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands
- Study area
- NCG tolerance band
- WaterNSW supply pipelines

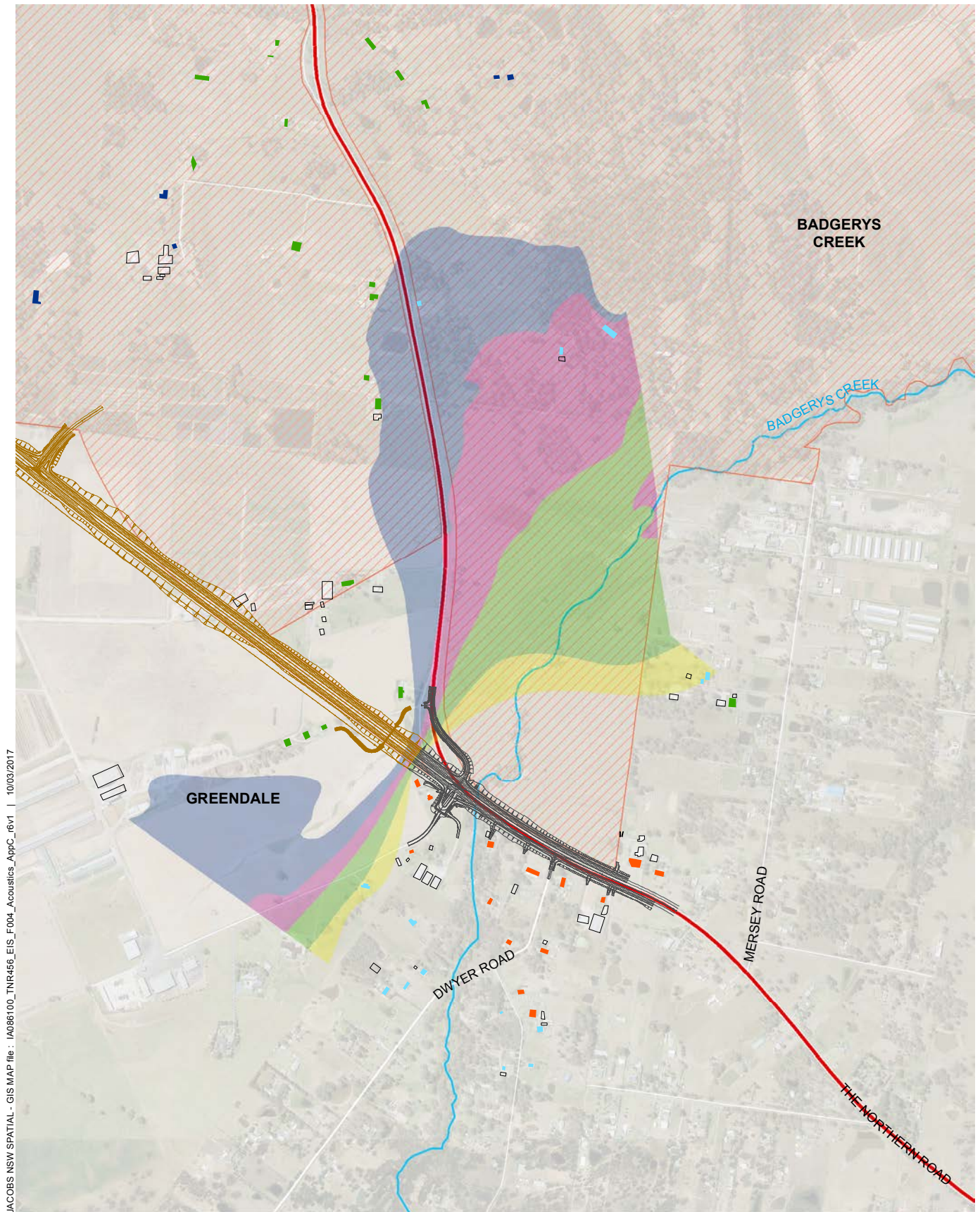
Functional class, Development type

- | | |
|-----------------------|---------------------------|
| Freeway, Existing | Sub arterial, Redeveloped |
| Arterial, New | Sub arterial, Existing |
| Arterial, Redeveloped | Collector, Existing |
| Arterial, Existing | Local, New |
| Sub arterial, New | Local, Redeveloped |

0 400 800 m



Appendix C. Controlling NCG operational noise criteria for residential receivers

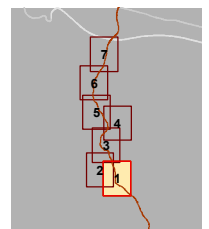
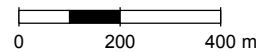


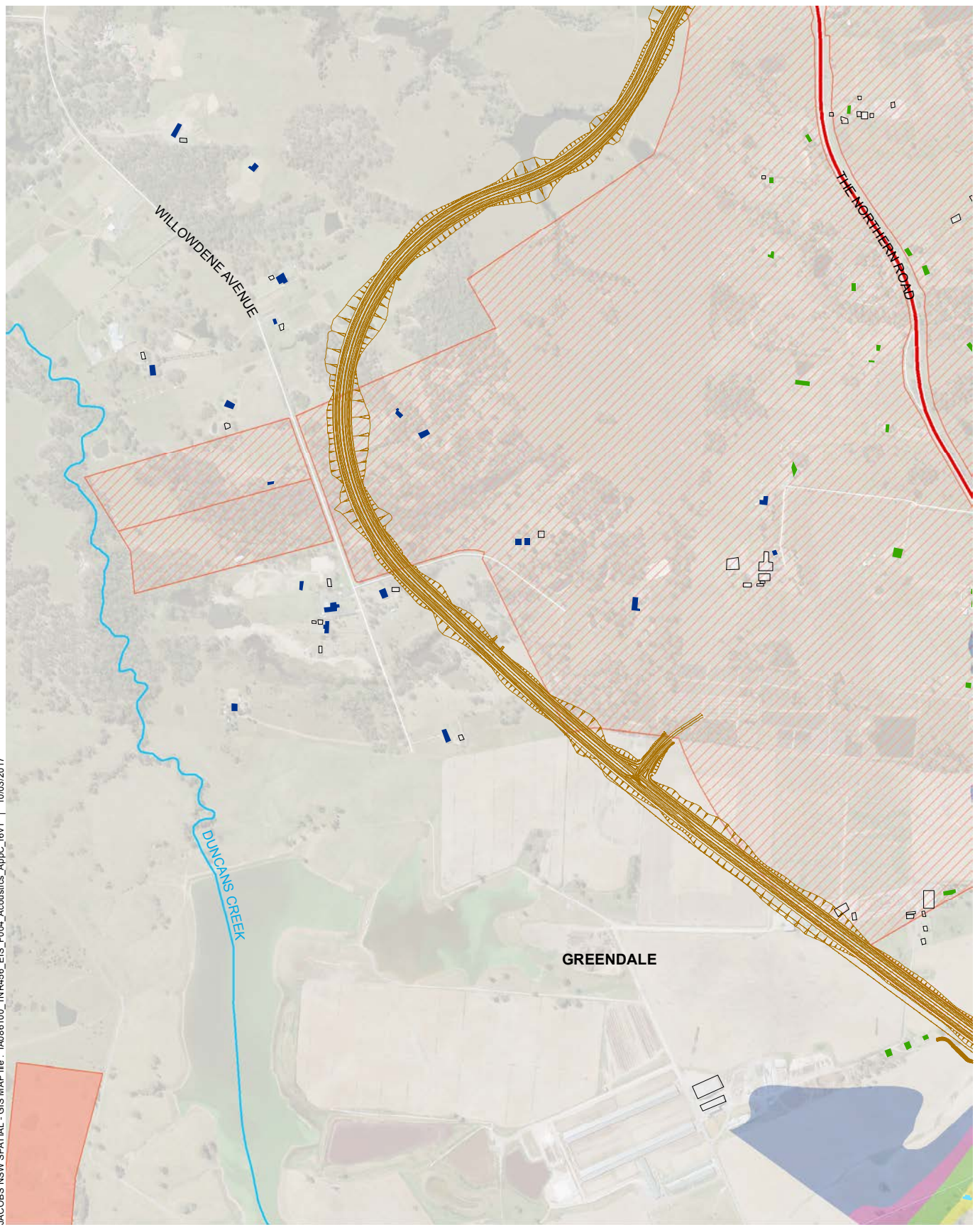
JACOBS NSW SPATIAL - GIS MAP file : IA086100_TNR456_EIS_F004_Acoustics_AppC_r6v1 | 10/03/2017

- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- ▨ Western Sydney Airport site (Commonwealth Land)
- ▨ Defence Establishment Orchard Hills (Commonwealth Land)
- ▨ Commonwealth lands

- Noise criteria determined by:
- Relative increase criteria
 - New road criteria
 - Redeveloped road criteria
 - Transition zone criteria
 - Non-residential receiver

- Transition zone contours
- Day 56 dBA / Night 51 dBA
 - Day 57 dBA / Night 52 dBA
 - Day 58 dBA / Night 53 dBA
 - Day 59 dBA / Night 54 dBA

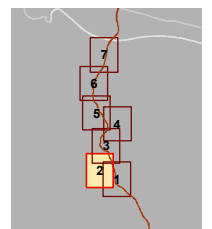
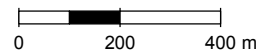


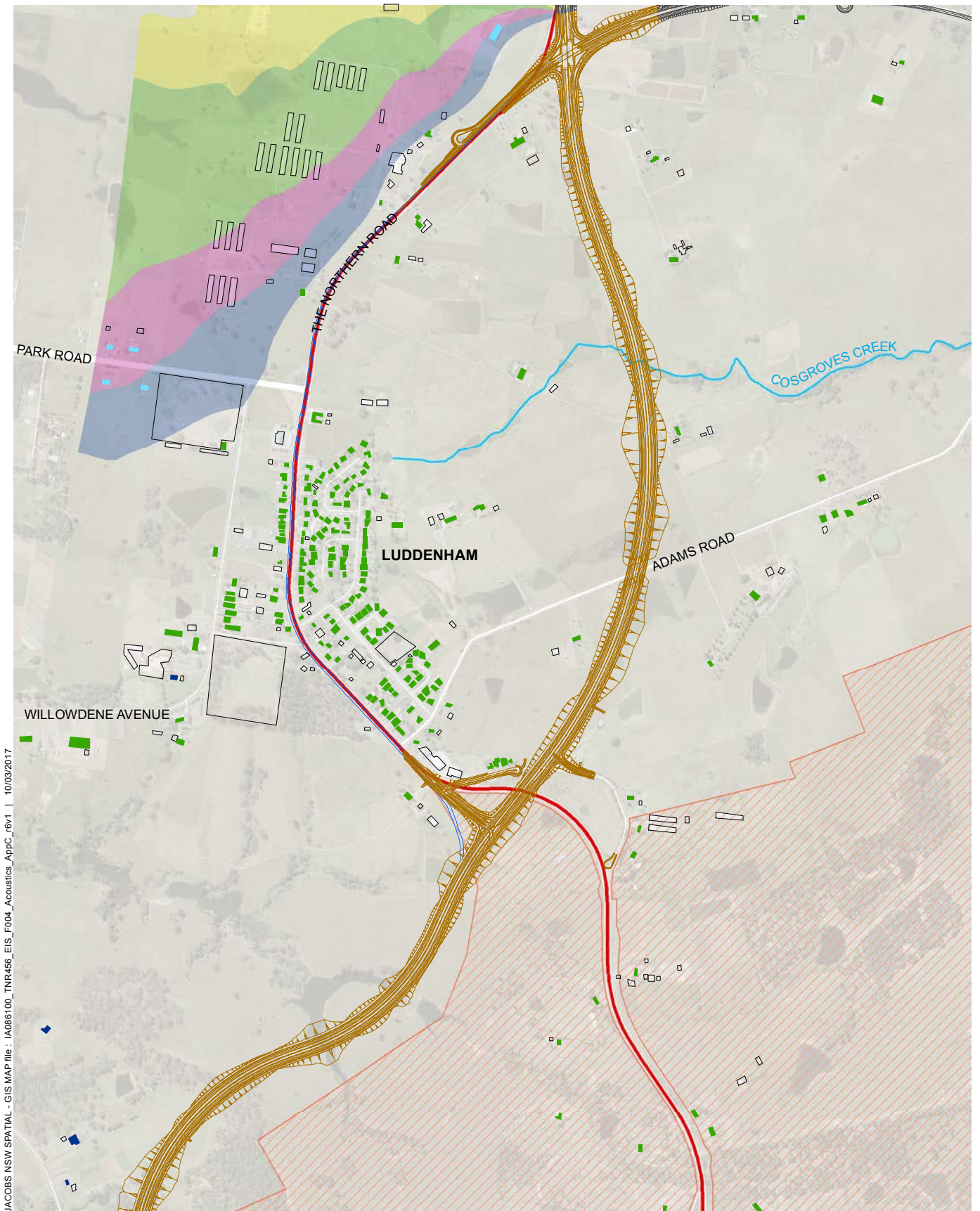


- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands

- Noise criteria determined by:
- Relative increase criteria
 - New road criteria
 - Redeveloped road criteria
 - Transition zone criteria
 - Non-residential receiver

- Transition zone contours
- Day 56 dBA / Night 51 dBA
 - Day 57 dBA / Night 52 dBA
 - Day 58 dBA / Night 53 dBA
 - Day 59 dBA / Night 54 dBA





JACOBS NSW SPATIAL - GIS MAP file : IA086100_TNR456_EIS_F004_Acoustics_AppC_rv1 | 10/03/2017

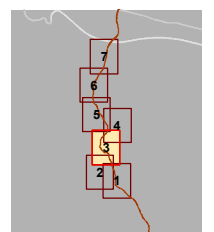
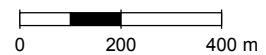
- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands

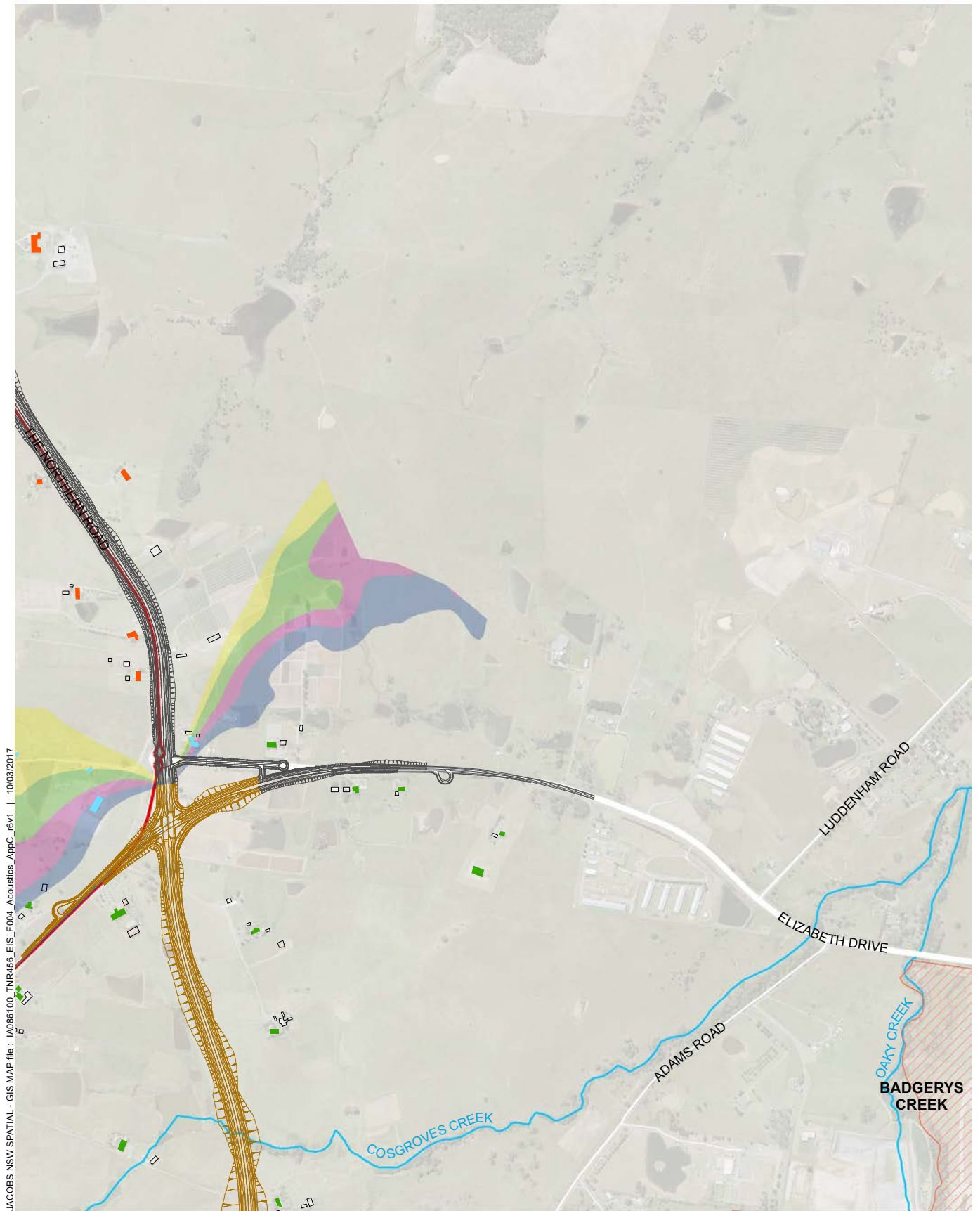
Noise criteria determined by:

- Relative increase criteria
- New road criteria
- Redeveloped road criteria
- Transition zone criteria
- Non-residential receiver

Transition zone contours

- Day 56 dBA / Night 51 dBA
- Day 57 dBA / Night 52 dBA
- Day 58 dBA / Night 53 dBA
- Day 59 dBA / Night 54 dBA



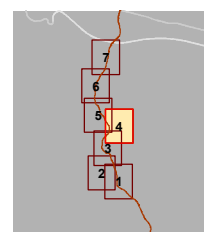
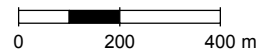


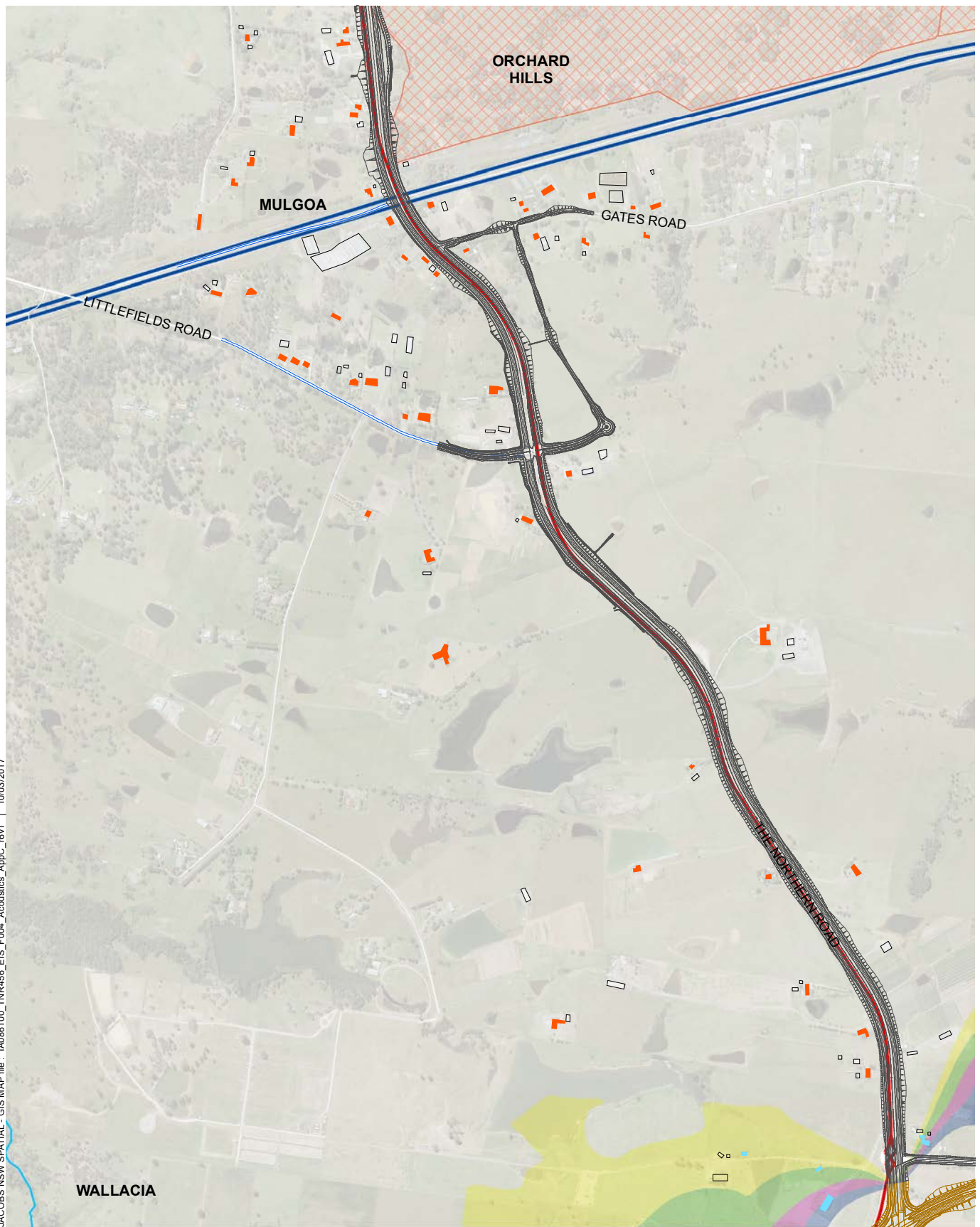
JACOBS NSW SPATIAL - GIS MAP file : IA086100_TNR456_EIS_F004_Acoustics_AppC_r6v1 | 10/03/2017

- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands
- WaterNSW supply pipelines

- Noise criteria determined by:
- Relative increase criteria
 - New road criteria
 - Redeveloped road criteria
 - Transition zone criteria
 - Non-residential receiver

- Transition zone contours
- Day 56 dBA / Night 51 dBA
 - Day 57 dBA / Night 52 dBA
 - Day 58 dBA / Night 53 dBA
 - Day 59 dBA / Night 54 dBA

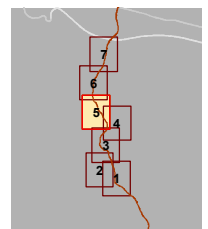
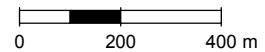


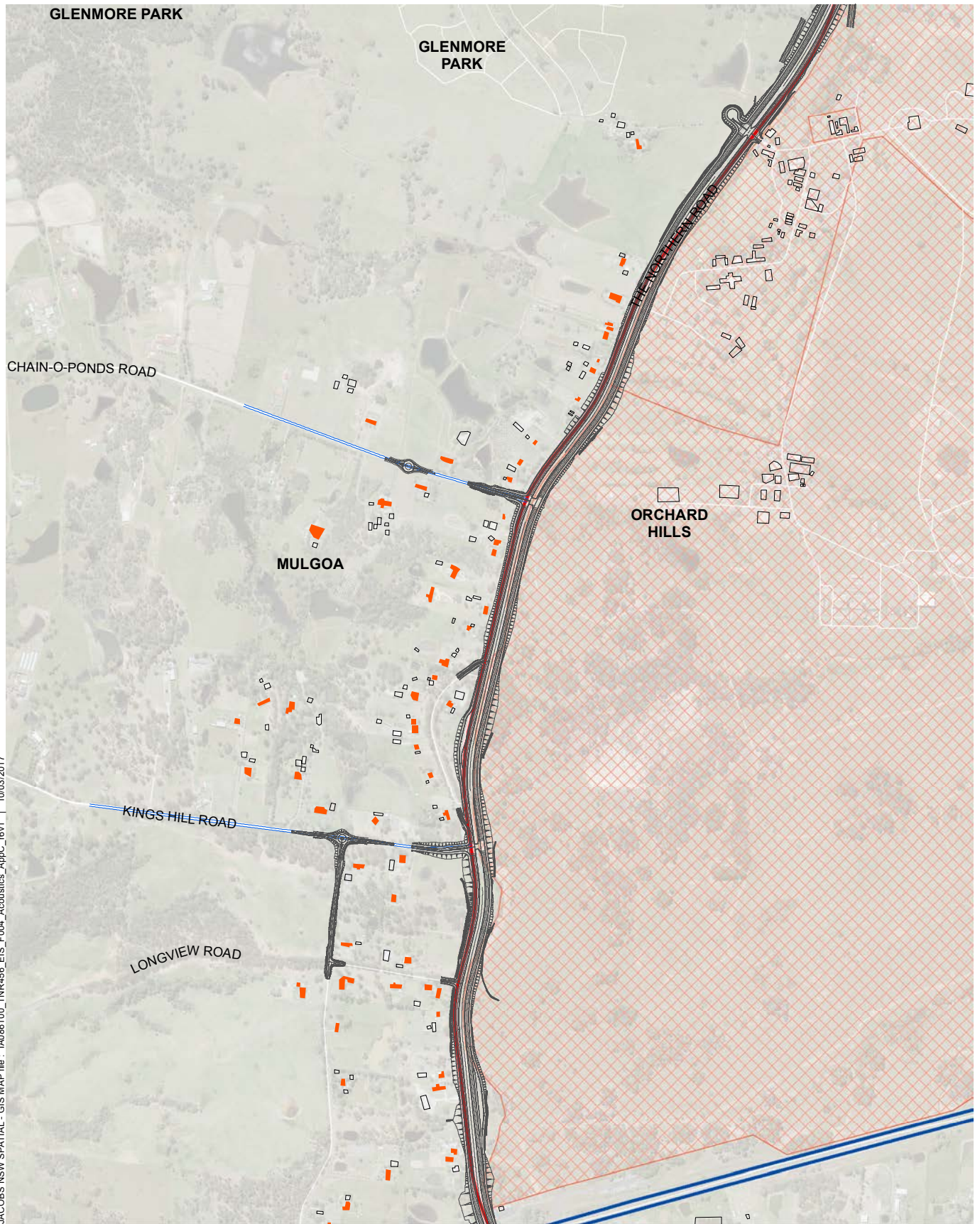


- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- ▨ Western Sydney Airport site (Commonwealth Land)
- ▨ Defence Establishment Orchard Hills (Commonwealth Land)
- ▨ Commonwealth lands
- WaterNSW supply pipelines

- Noise criteria determined by:
- Relative increase criteria
 - New road criteria
 - Redeveloped road criteria
 - Transition zone criteria
 - Non-residential receiver

- Transition zone contours
- Day 56 dBA / Night 51 dBA
 - Day 57 dBA / Night 52 dBA
 - Day 58 dBA / Night 53 dBA
 - Day 59 dBA / Night 54 dBA





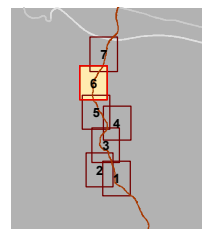
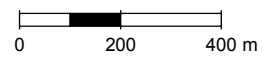
- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- ▨ Western Sydney Airport site (Commonwealth Land)
- ▩ Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands
- WaterNSW supply pipelines

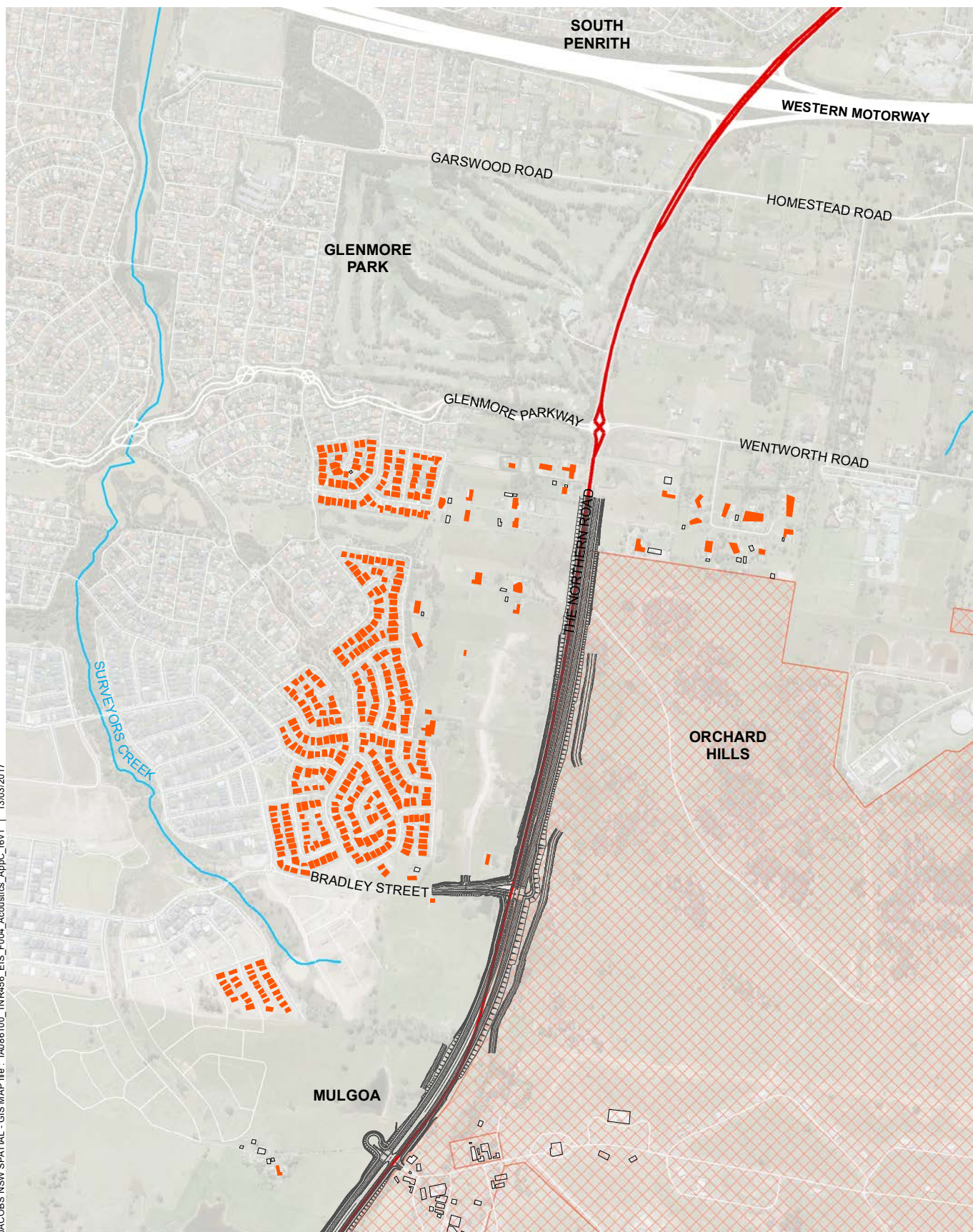
Noise criteria determined by:

- Relative increase criteria
- New road criteria
- Redeveloped road criteria
- Transition zone criteria
- Non-residential receiver

Transition zone contours

- Day 56 dBA / Night 51 dBA
- Day 57 dBA / Night 52 dBA
- Day 58 dBA / Night 53 dBA
- Day 59 dBA / Night 54 dBA





- The Northern Road (Existing)
- Redeveloped road sections
- New road sections
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth lands

Noise criteria determined by:

- Relative increase criteria
- New road criteria
- Redeveloped road criteria
- Transition zone criteria
- Non-residential receiver

Transition zone contours

- Day 56 dBA / Night 51 dBA
- Day 57 dBA / Night 52 dBA
- Day 58 dBA / Night 53 dBA
- Day 59 dBA / Night 54 dBA

