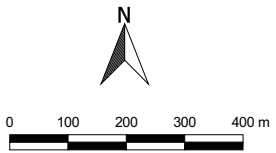


2 LINCOLN STREET
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Project No.:	610.13569
Date:	16/08/2015
Drawn by:	ALW
Scale:	1:13,000
Sheet Size:	@ A4
Projection:	GDA 1994 MGA Zone 56



- Proposed Design
- Noise Barrier
- Triggered Receivers**
- >2.0 dB Increase
- Residential
- Acquired Buildings
- Cumulative Limit
- Other Sensitive
- Low Noise Pavement
- Both

WestConnex Delivery Authority

WestConnex - M4 East

**Receivers Considered for
Noise Barriers
(Low Noise Pavement Included)**

The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.



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- Proposed Design
- Noise Barrier
- Triggered Receivers**
- >2.0 dB Increase
- Residential
- Acquired Buildings
- Cumulative Limit
- Other Sensitive
- Low Noise Pavement
- Both

WestConnex Delivery Authority

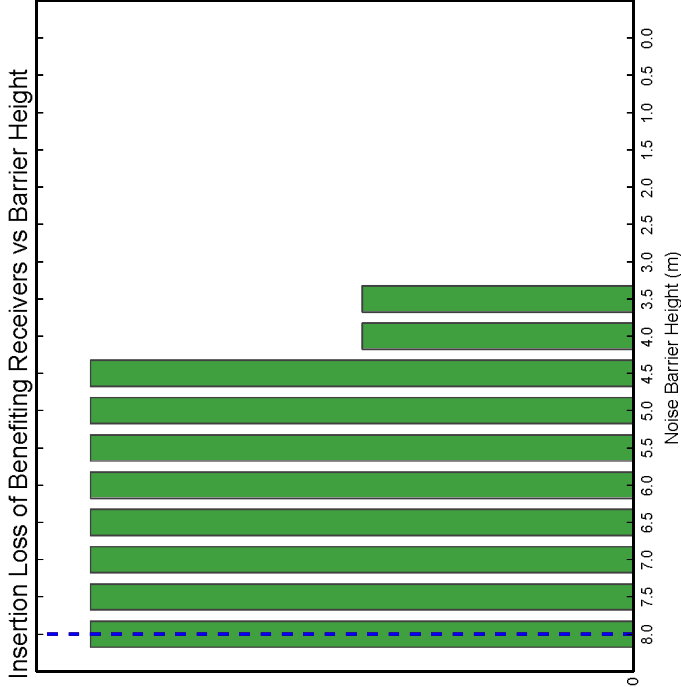
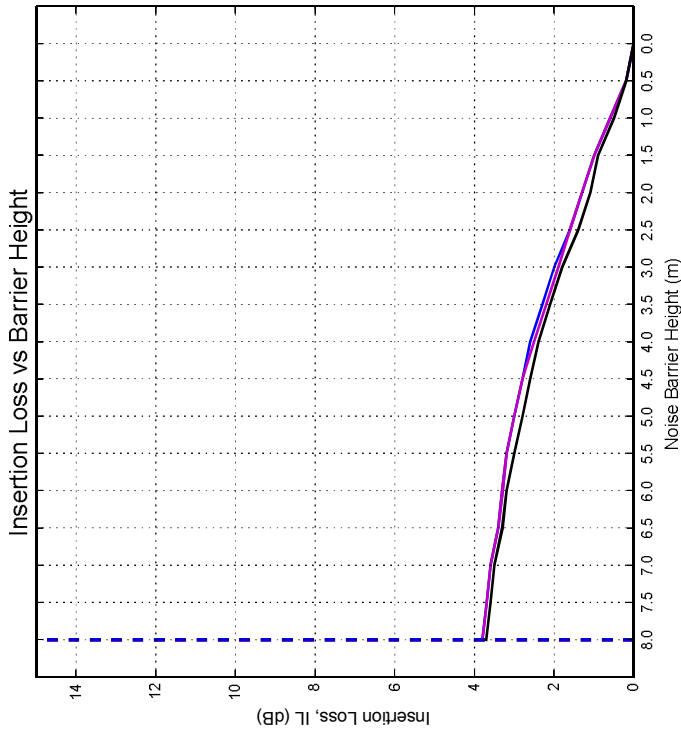
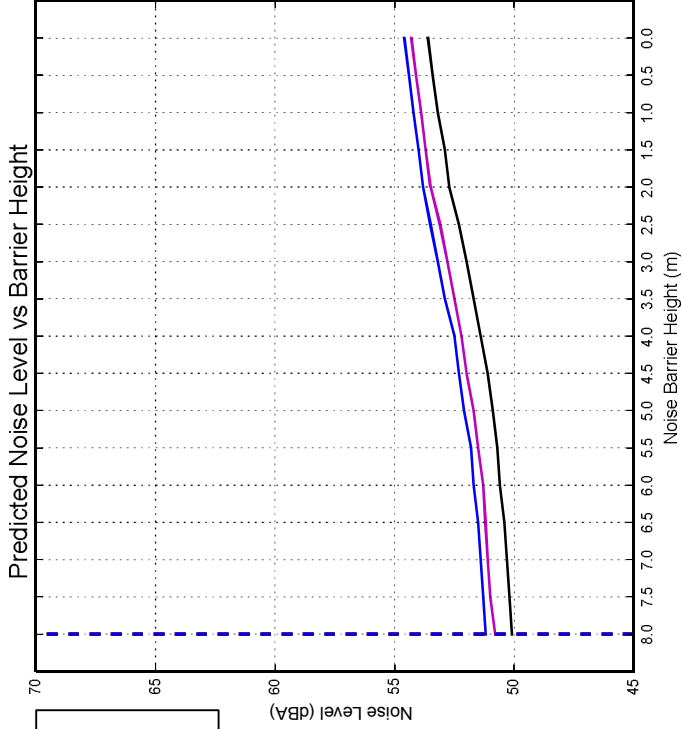
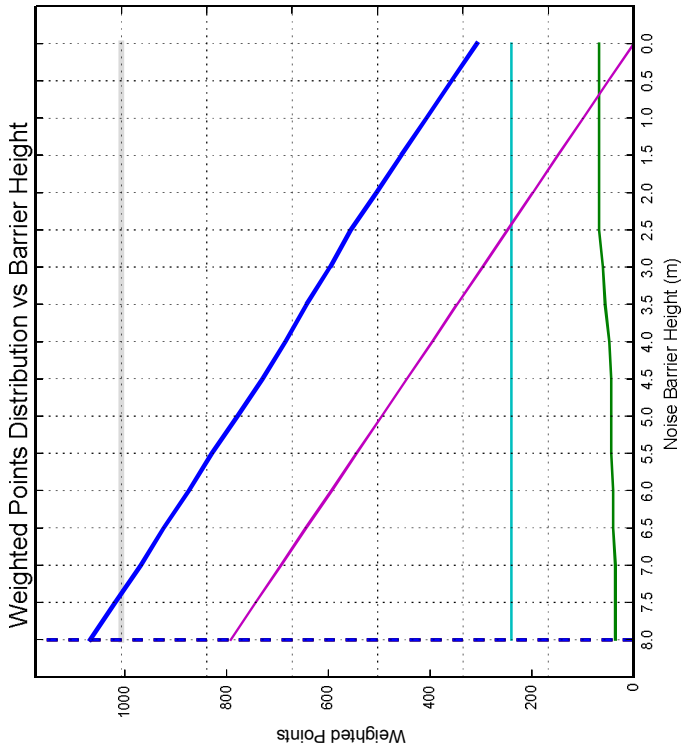
WestConnex - M4 East

**Receivers Considered for
Noise Barriers
(Low Noise Pavement Included)**

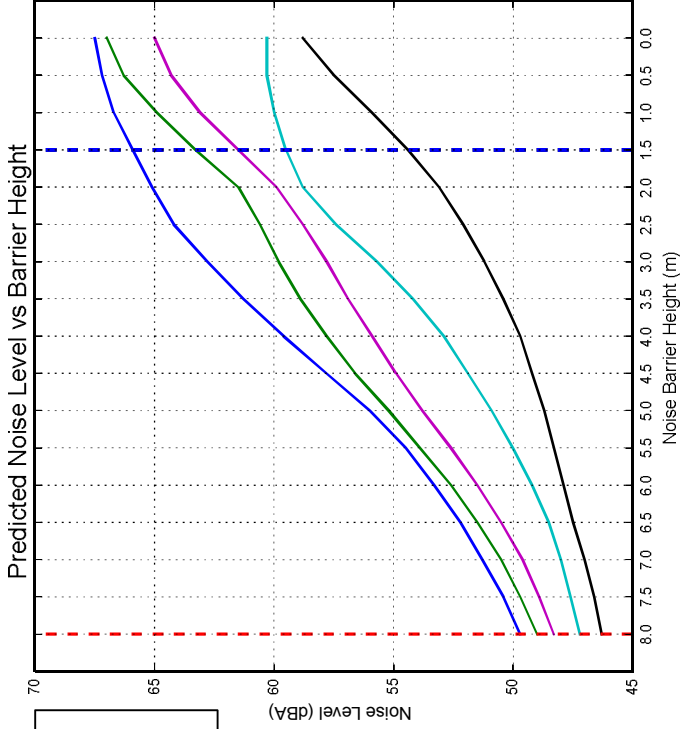
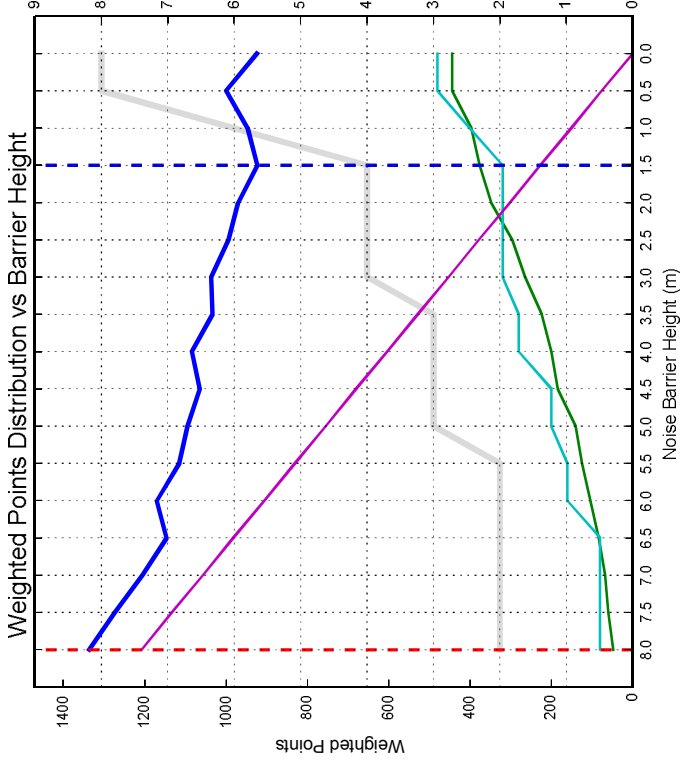
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Noise Barrier Optimisation: NW_CCRDPRTAL_01



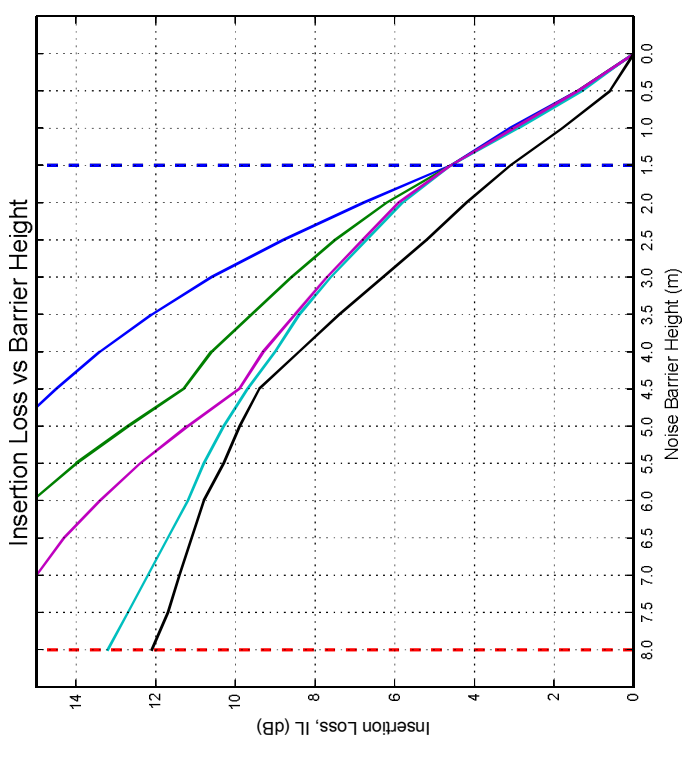
Noise Barrier Optimisation: NW_CONCORD_01A



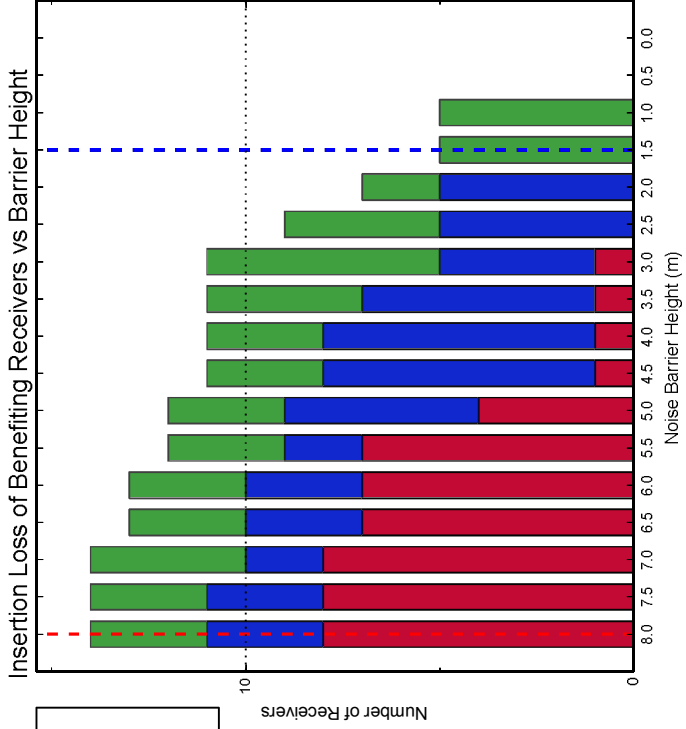
- Most Affected Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 1.5 m
- Optimised Design Height: 1.5 m

- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 8.0 m
- Initial Design Height: 1.5 m
- Optimised Design Height: 1.5 m
- Triggered Receivers

Benefiting Receivers: 14
 Triggered Receivers: 8
 Two Thirds Point: 4.0
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 151 m

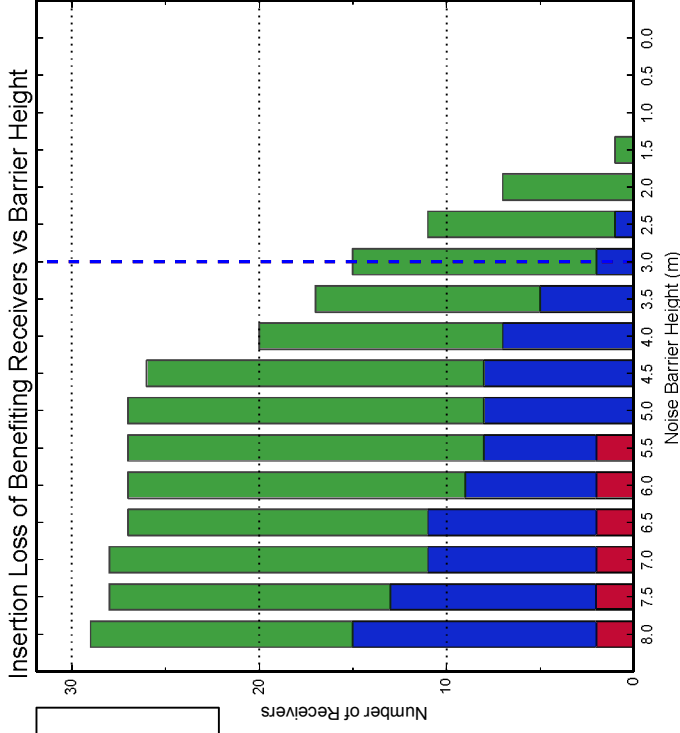
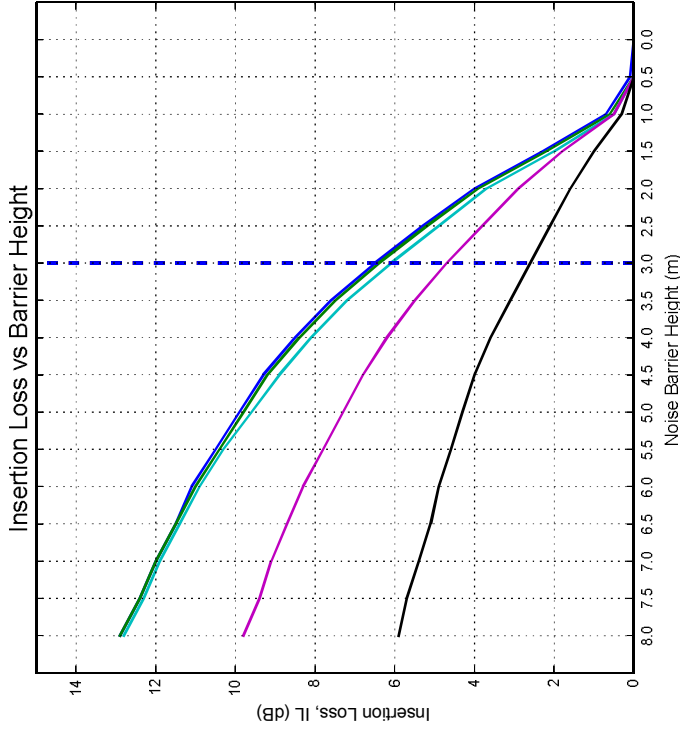
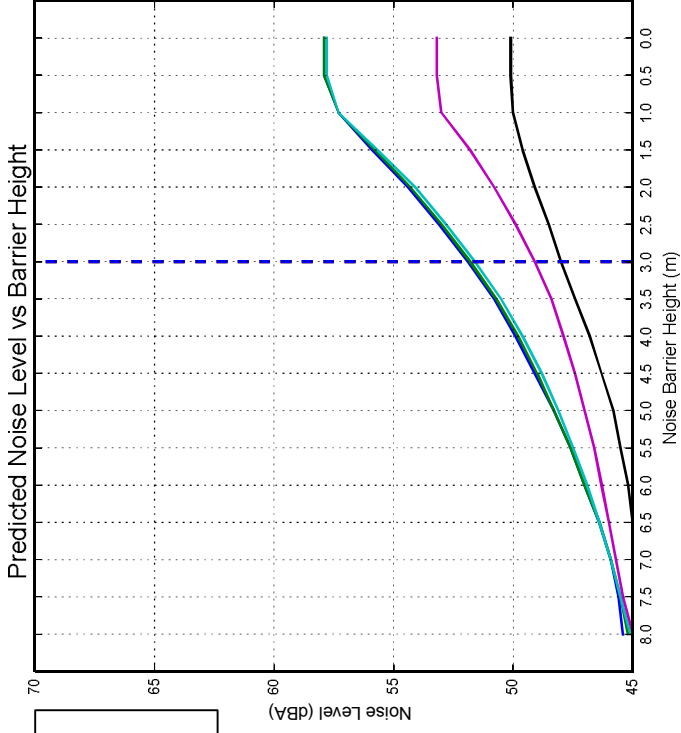
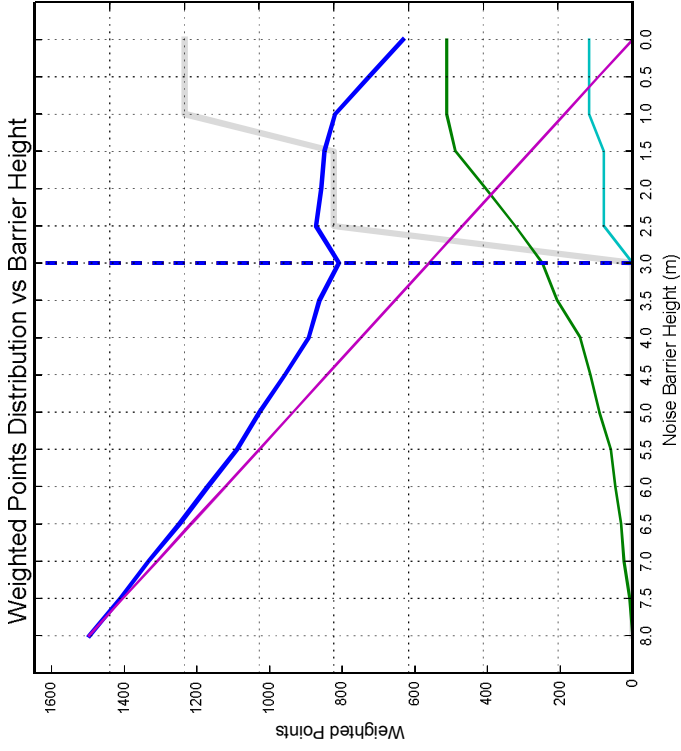


- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 1.5 m
- Optimised Design Height: 1.5 m



- IL > 2.0 dB
- IL > 5.0 dB
- IL > 10.0 dB

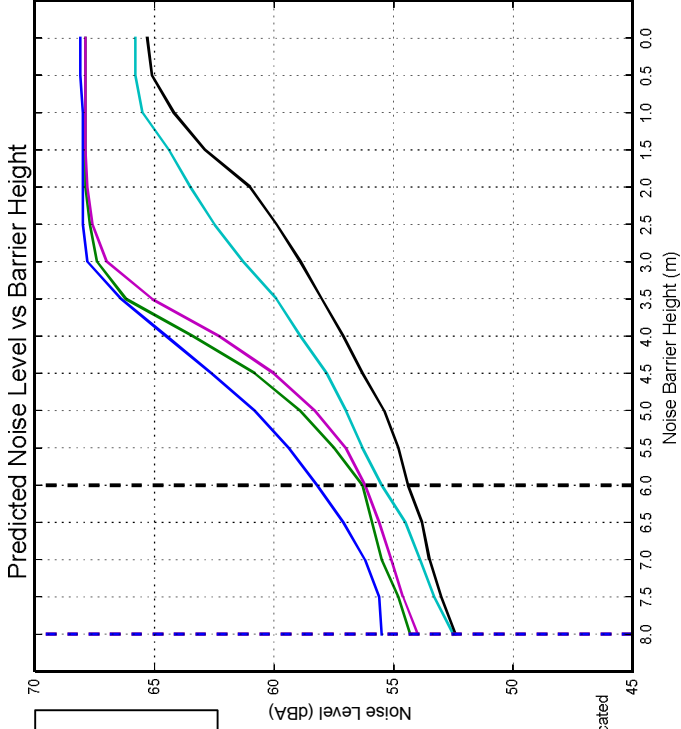
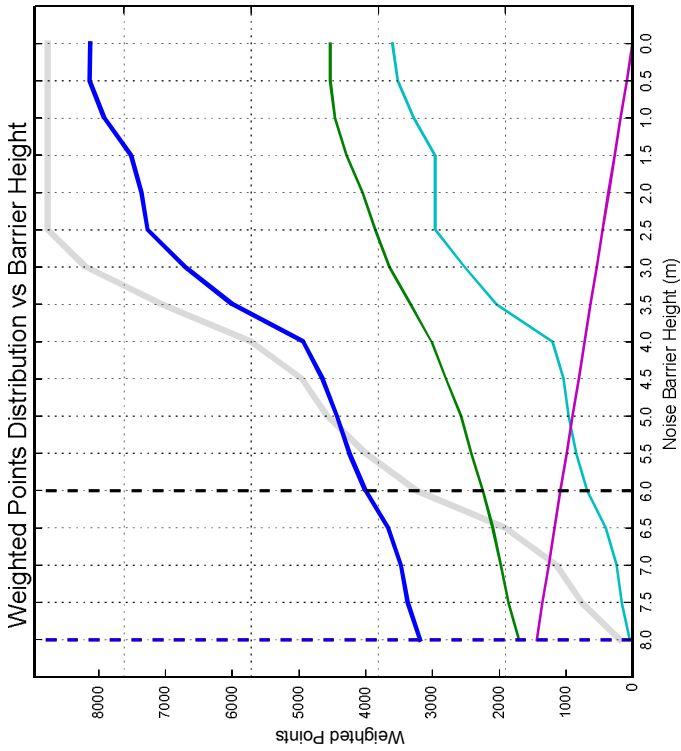
Noise Barrier Optimisation: NW_CONCORD_01B



Total Weighted Points: 1500
 WHO Exceedance Points: 1200
 RNP Exceedance Points: 1000
 Wall Area Points: 800
 Maximum Design Height: 3.0 m
 Initial Design Height: 3.0 m
 Optimised Design Height: 3.0 m
 Triggered Receivers: 3

Benefiting Receivers: 29
 Triggered Receivers: 3
 Two Thirds Point: 1.0
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 187 m

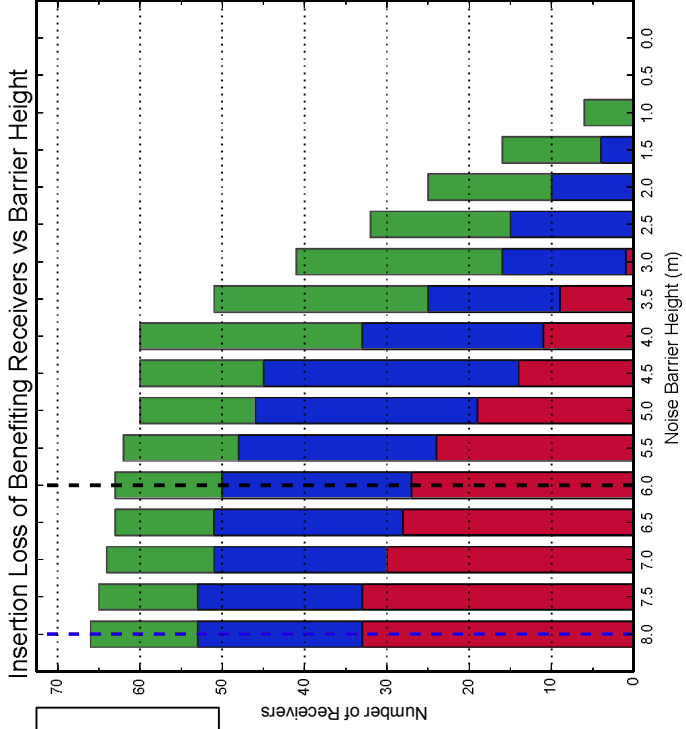
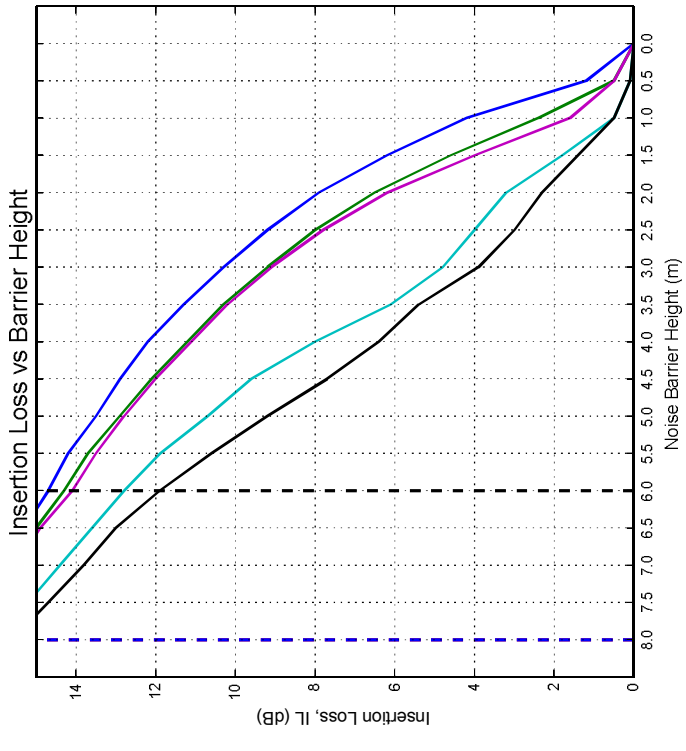
Noise Barrier Optimisation: NW_M4EB_01A-B



- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 8.0 m
- Initial Design Height: 6.0 m
- Optimised Design Height: 8.0 m
- Triggered Receivers

- Most Affected Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 6.0 m
- Optimised Design Height: 8.0 m

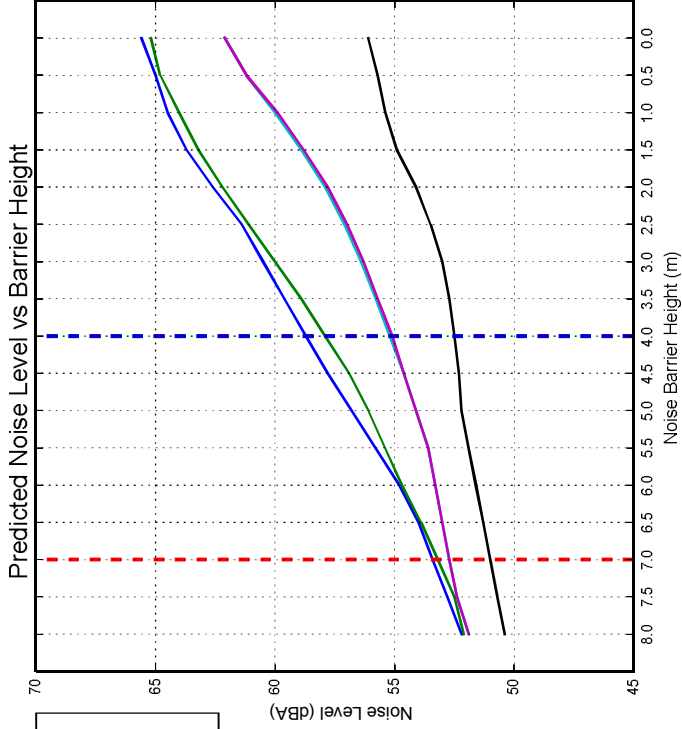
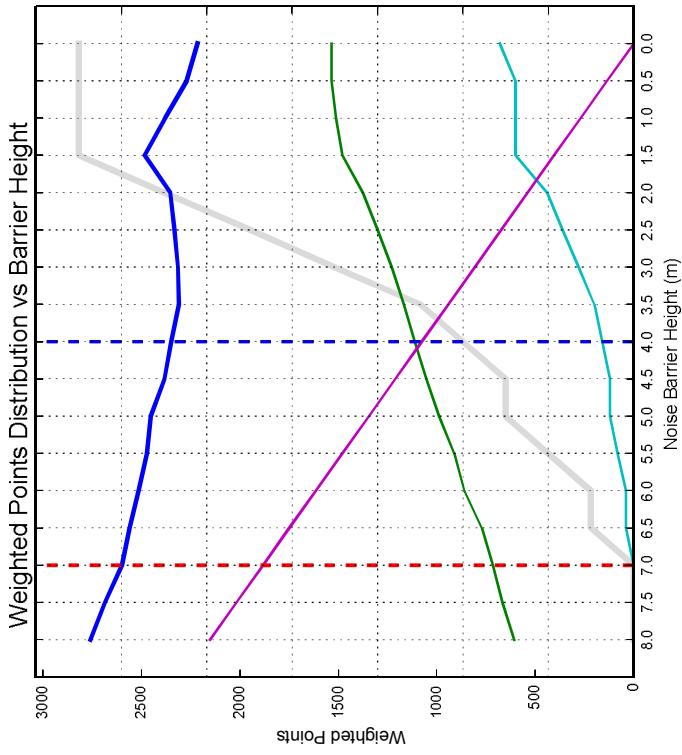
Benefiting Receivers: 66
 Triggered Receivers: 46
 Two Thirds Point: 16.0
 Existing Barrier Height: 6.0 m
 Barrier History: New, Retained / Relocated
 Barrier Length: 180 m



- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 6.0 m
- Optimised Design Height: 8.0 m

- IL > 2.0 dB
- IL > 5.0 dB
- IL > 10.0 dB

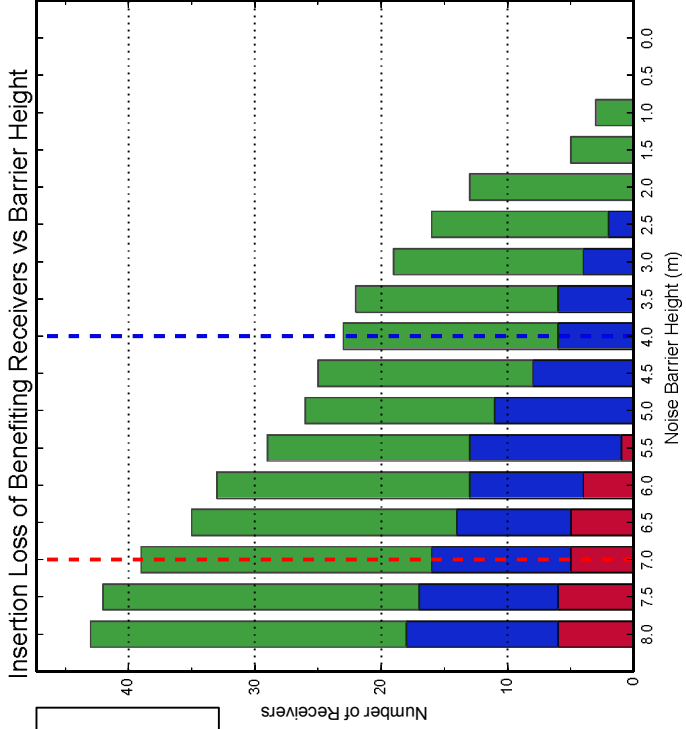
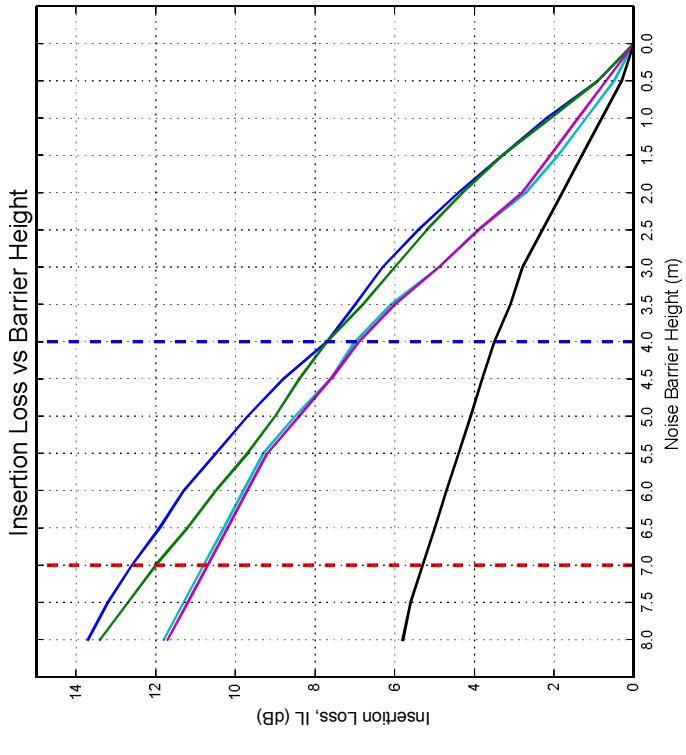
Noise Barrier Optimisation: NW_M4EB_01C-E



Total Weighted Points
 WHO Exceedance Points
 RNP Exceedance Points
 Barrier Area Points
 Maximum Design Height: 7.0 m
 Initial Design Height: 4.0 m
 Optimised Design Height: 4 m
 Triggered Receivers

Number of Receivers

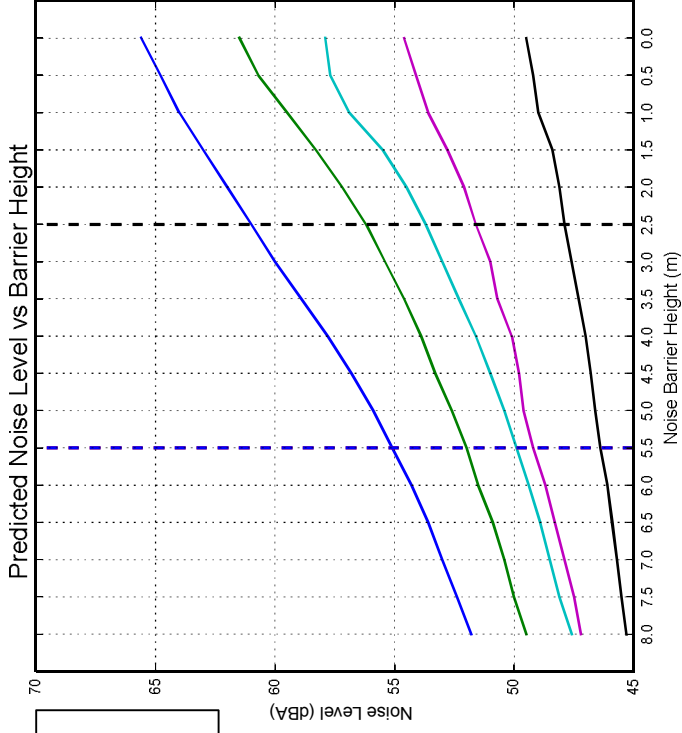
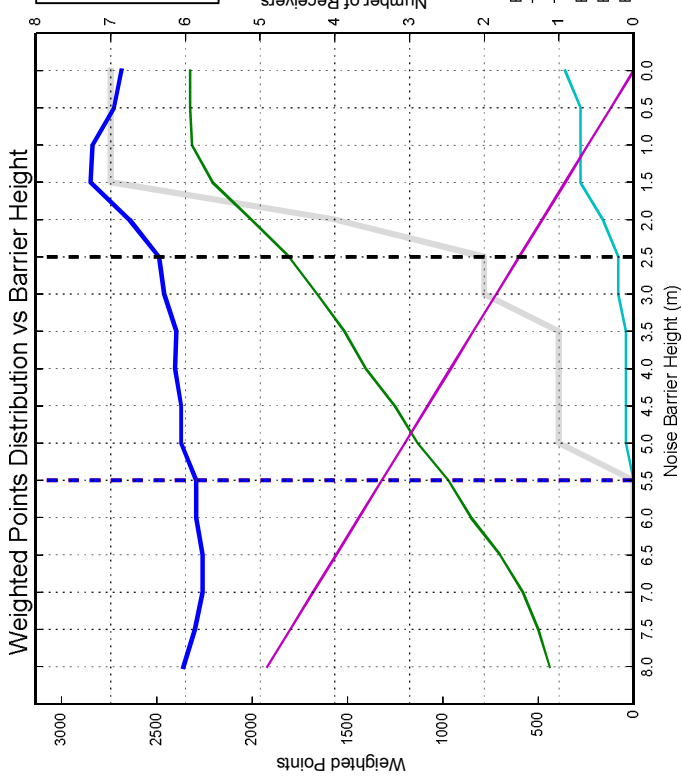
Benefiting Receivers: 43
 Triggered Receivers: 13
 Two Thirds Point: 4.3
 Existing Barrier Height: 2.1 to 6.0 m
 Barrier History: Retained, Relocated
 Barrier Length: 269 m



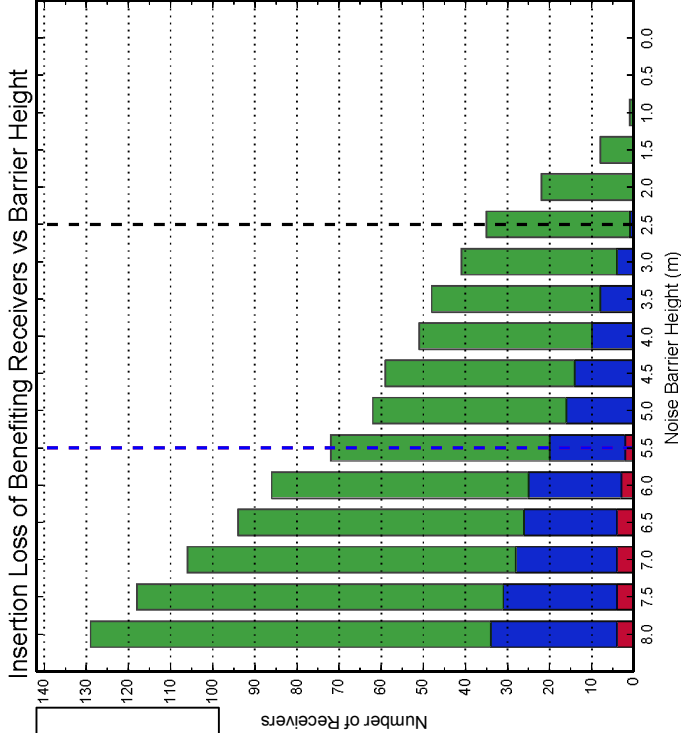
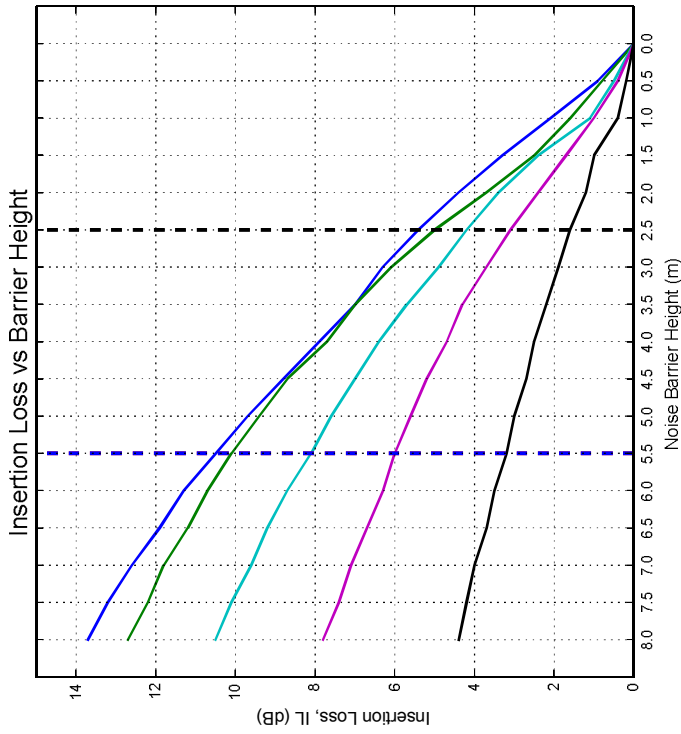
Most Benefiting Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 7.0 m
 Initial Design Height: 4.0 m
 Optimised Design Height: 4 m

Number of Receivers

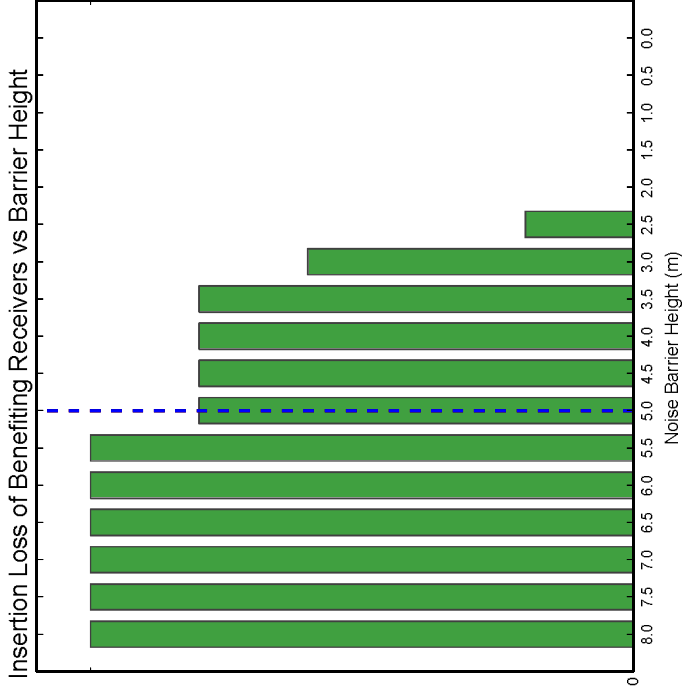
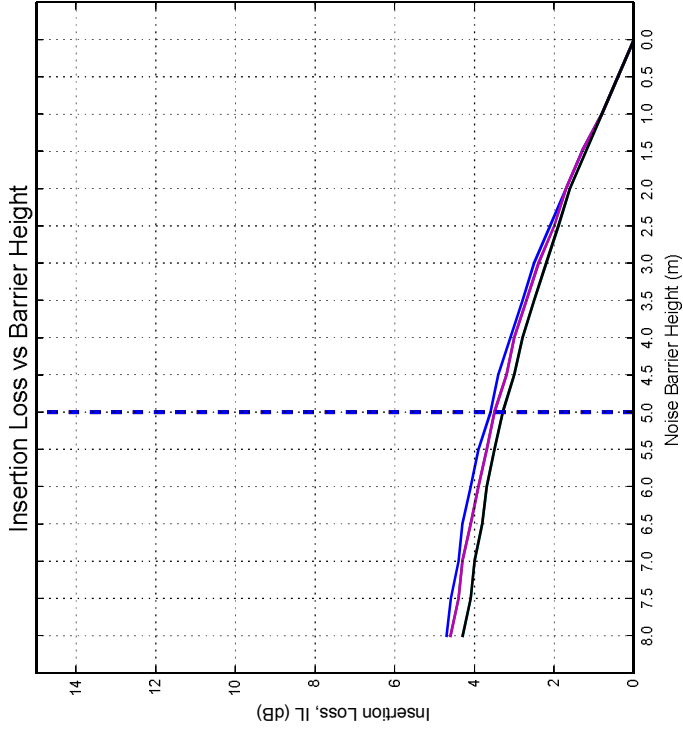
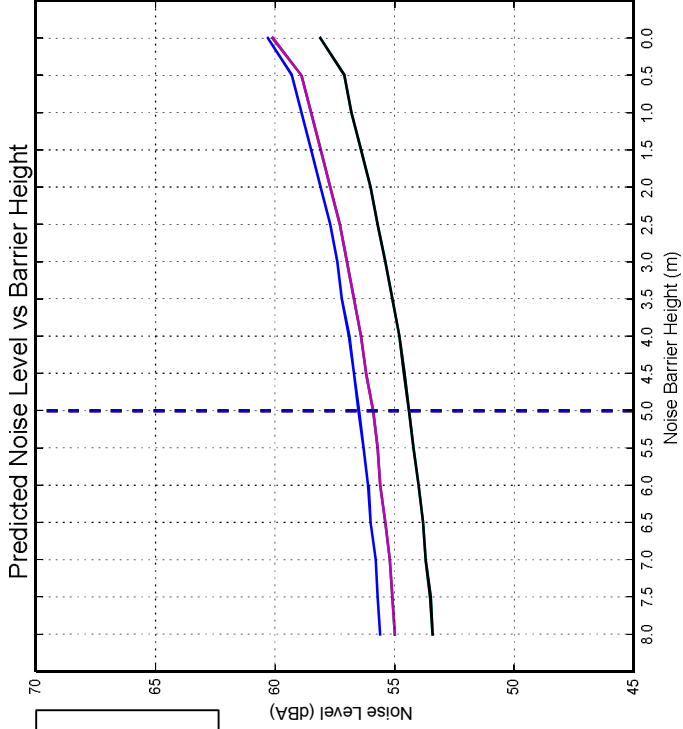
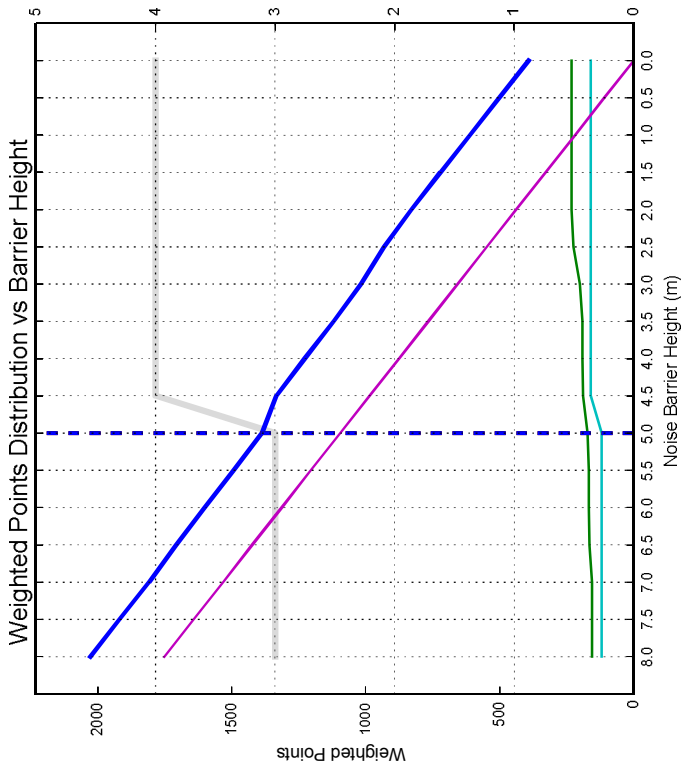
Noise Barrier Optimisation: NW_M4EB_01F



Benefiting Receivers: 129
 Triggered Receivers: 7
 Two Thirds Point: 2.3
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 240 m



Noise Barrier Optimisation: NW_M4WB_01

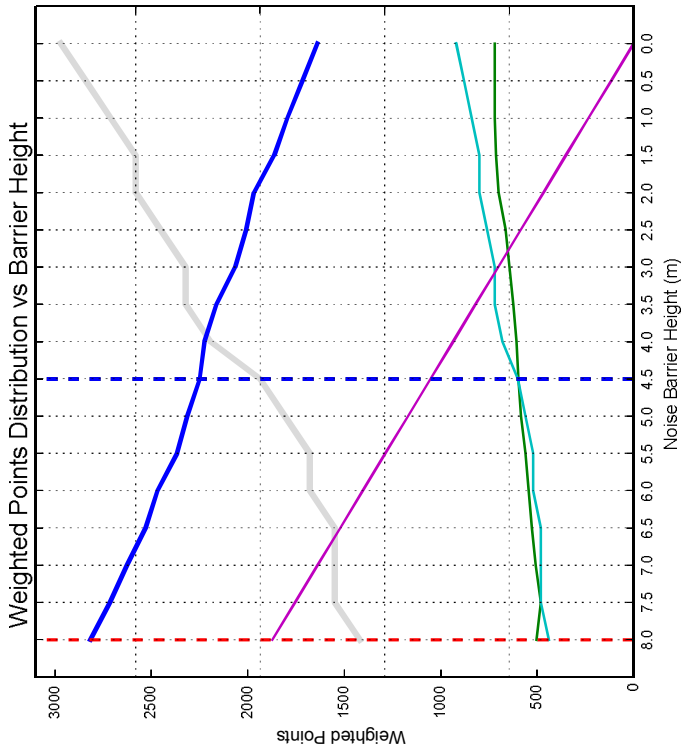


Total Weighted Points
 WHO Exceedance Points
 RNP Exceedance Points
 Wall Area Points
 Maximum Design Height: 5 m
 Initial Design Height: 5.0 m
 Optimised Design Height: 5.0 m
 Triggered Receivers

Number of Receivers
 Benefiting Receivers: 5
 Triggered Receivers: 4
 Two Thirds Point: 3.3
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 219 m

Most Benefiting Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 5 m
 Initial Design Height: 5.0 m
 Optimised Design Height: 5.0 m

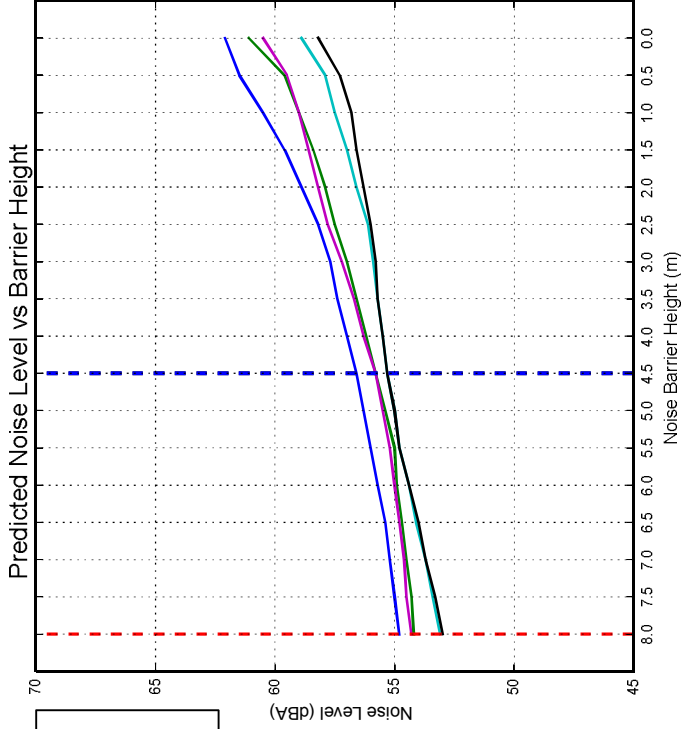
Noise Barrier Optimisation: NW_M4WB_02B



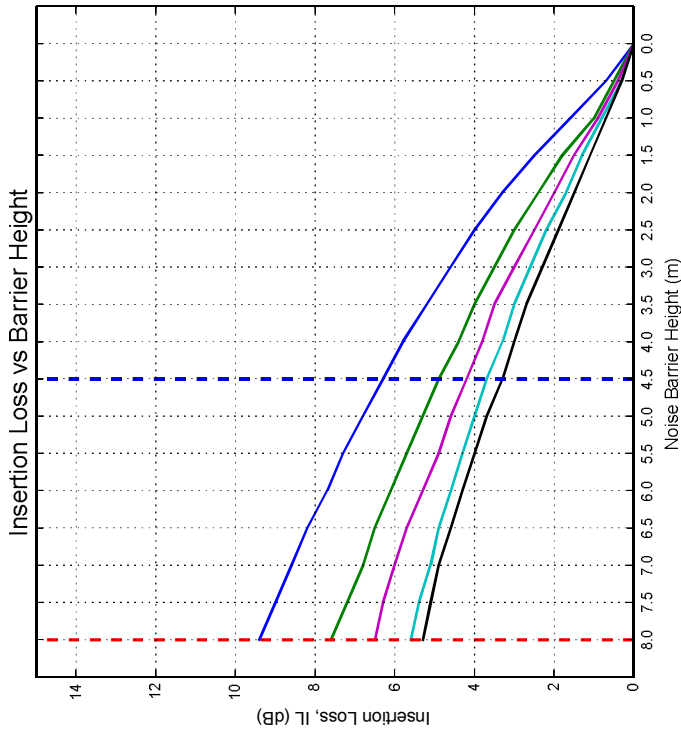
- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 8.0 m
- Initial Design Height: 4.5 m
- Optimised Design Height: 4.5 m
- Triggered Receivers

Number of Receivers

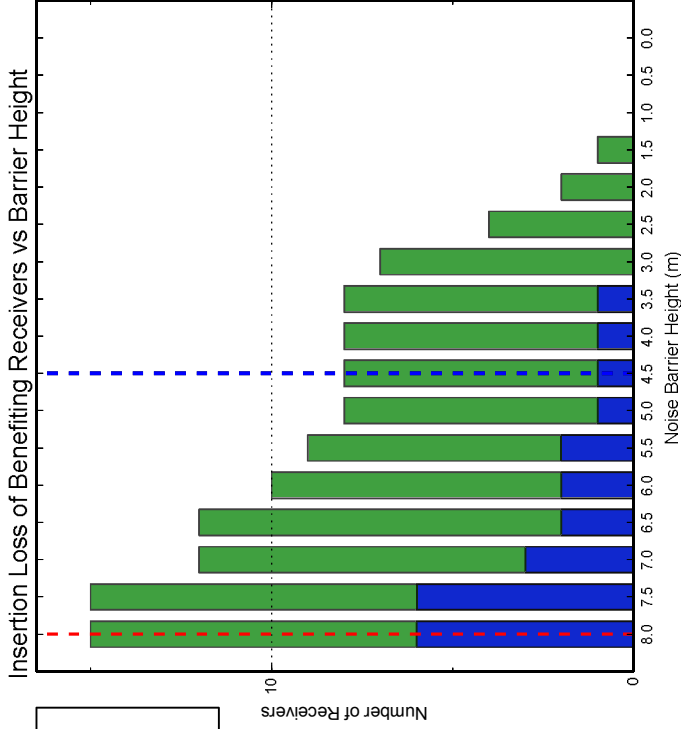
Benefiting Receivers: 15
 Triggered Receivers: 23
 Two Thirds Point: 15.0
 Existing Barrier Height: 3.0 to 4.2 m
 Barrier History: Retained
 Barrier Length: 234 m



- Most Affected Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 4.5 m
- Optimised Design Height: 4.5 m

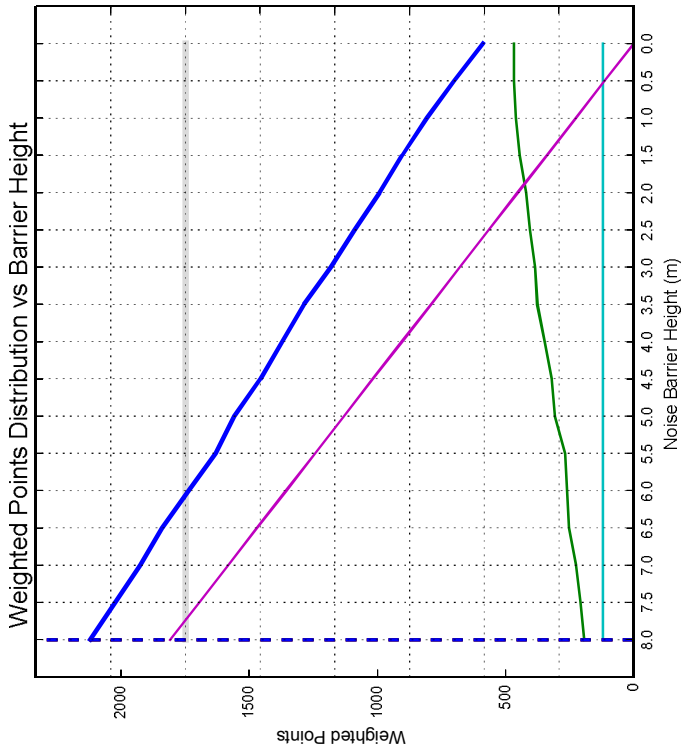


- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 4.5 m
- Optimised Design Height: 4.5 m



- IL > 2.0 dB
- IL > 5.0 dB
- IL > 10.0 dB

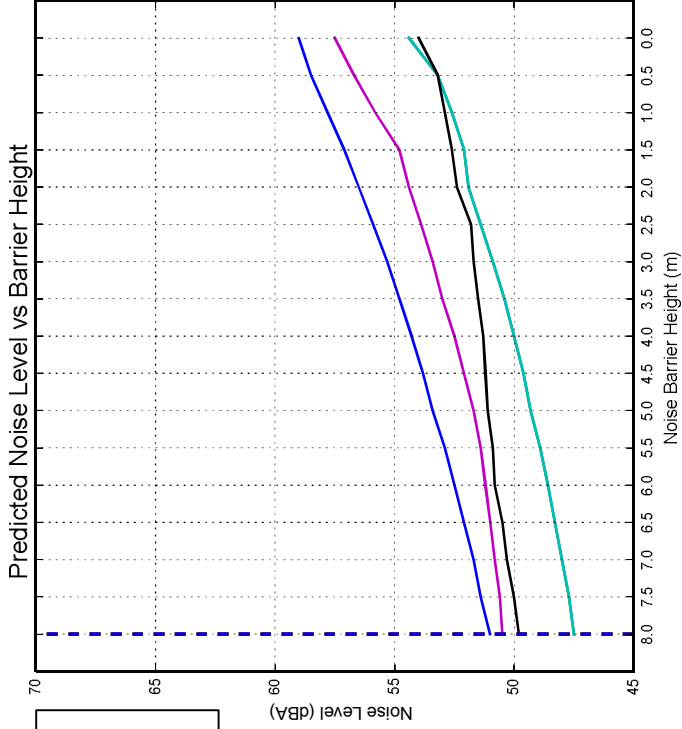
Noise Barrier Optimisation: NW_M4WB_02C



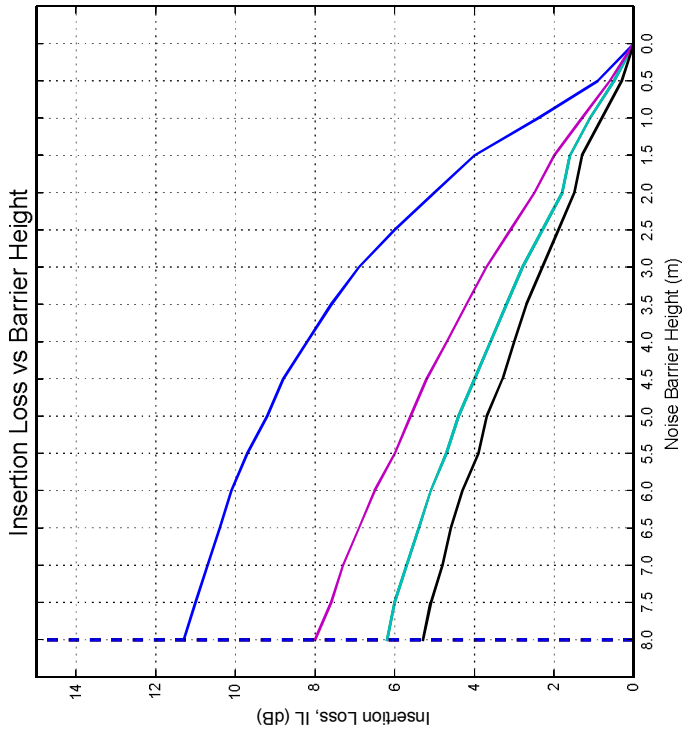
- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 8.0 m
- Initial Design Height: 8.0 m
- Optimised Design Height: 8.0 m
- Triggered Receivers

Number of Receivers

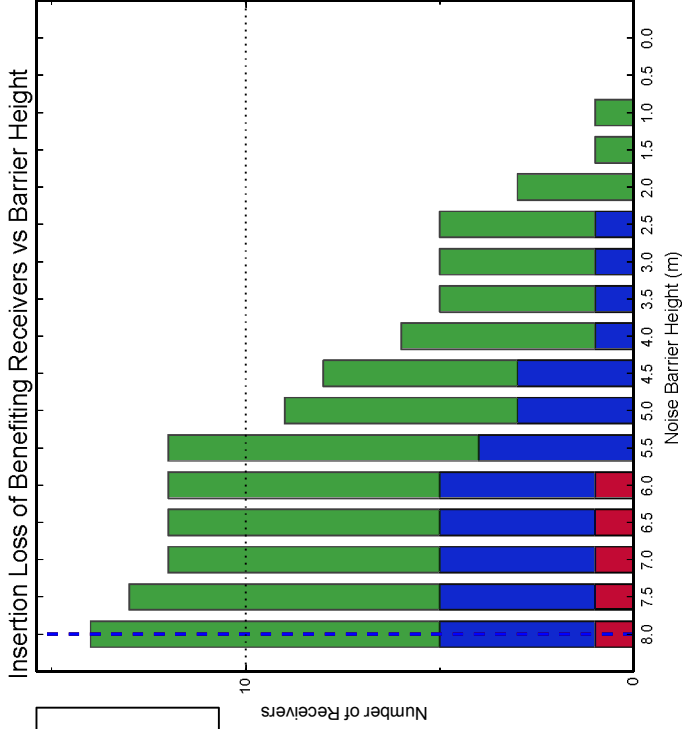
Benefiting Receivers: 14
 Triggered Receivers: 3
 Two Thirds Point: 0
 Existing Barrier Height: 4.2 m
 Barrier History: Relocated
 Barrier Length: 226 m



- Most Affected Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 8.0 m
- Optimised Design Height: 8.0 m

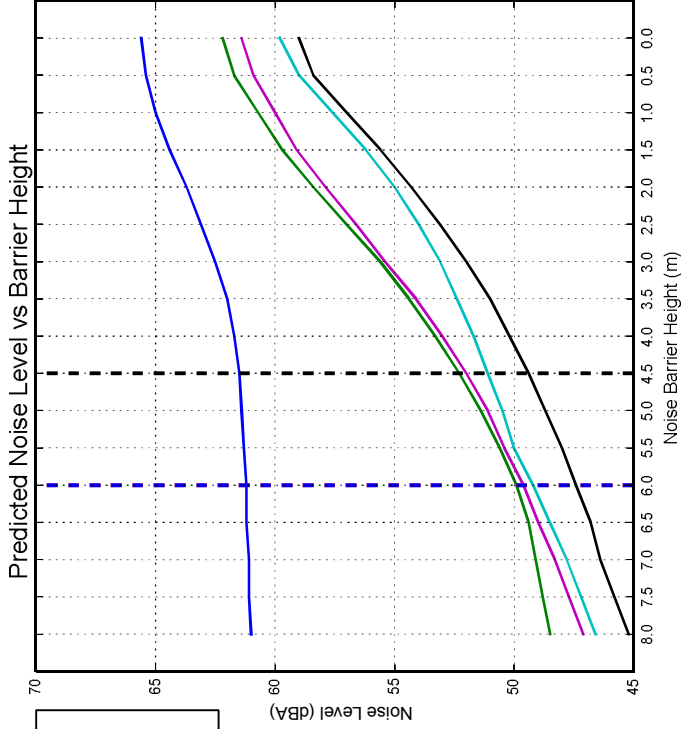
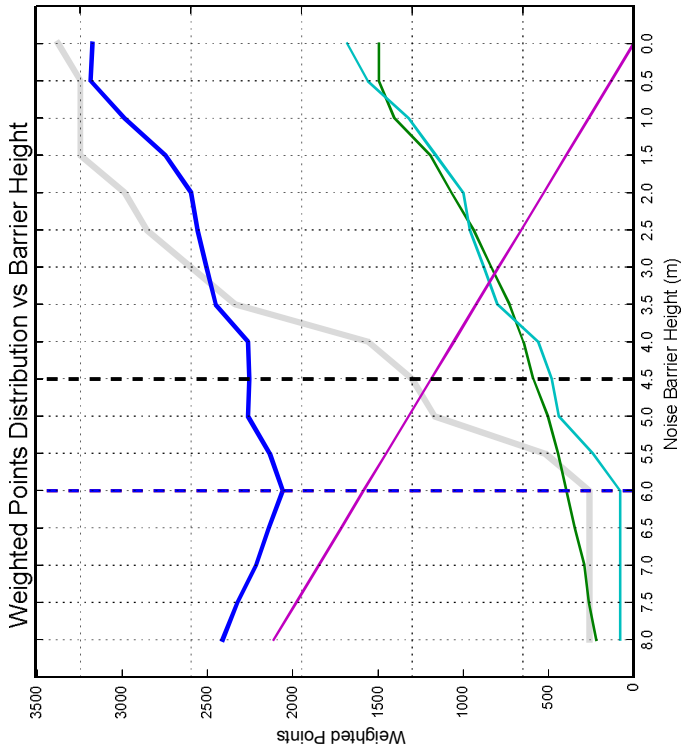


- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 8.0 m
- Optimised Design Height: 8.0 m



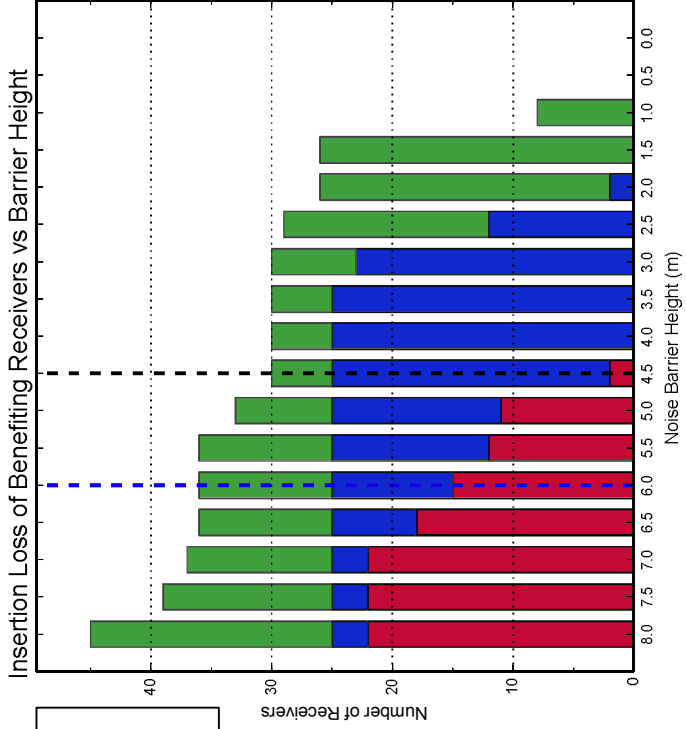
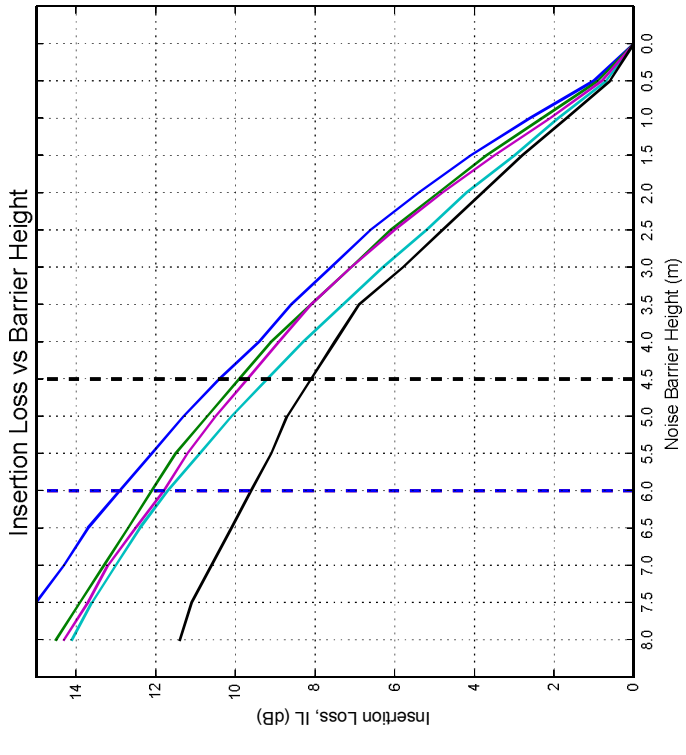
- IL > 2.0 dB
- IL > 5.0 dB
- IL > 10.0 dB

Noise Barrier Optimisation: NW_PARRA_01A



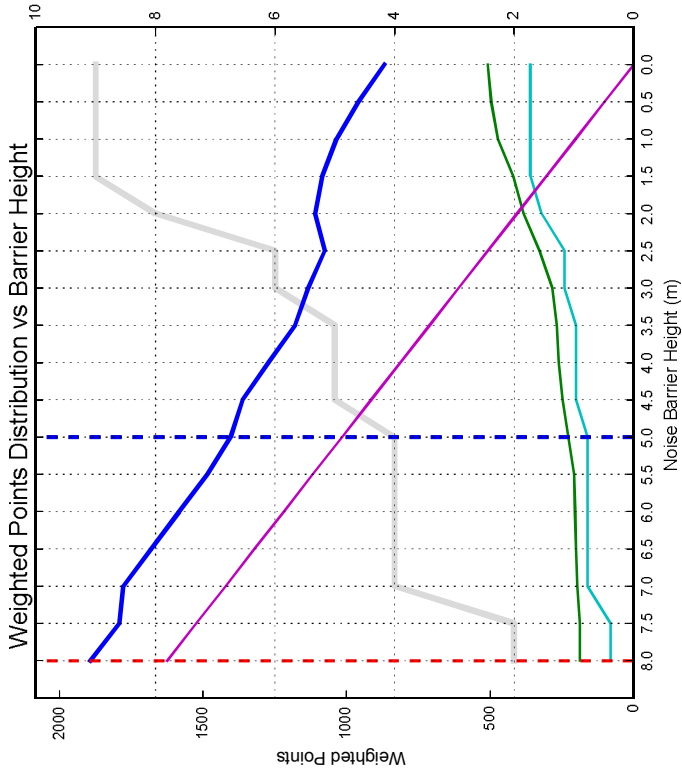
- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 6 m
- Initial Design Height: 4.5 m
- Optimised Design Height: 6.0 m
- Triggered Receivers

Benefiting Receivers: 45
 Triggered Receivers: 26
 Two Thirds Point: 10.0
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 264 m



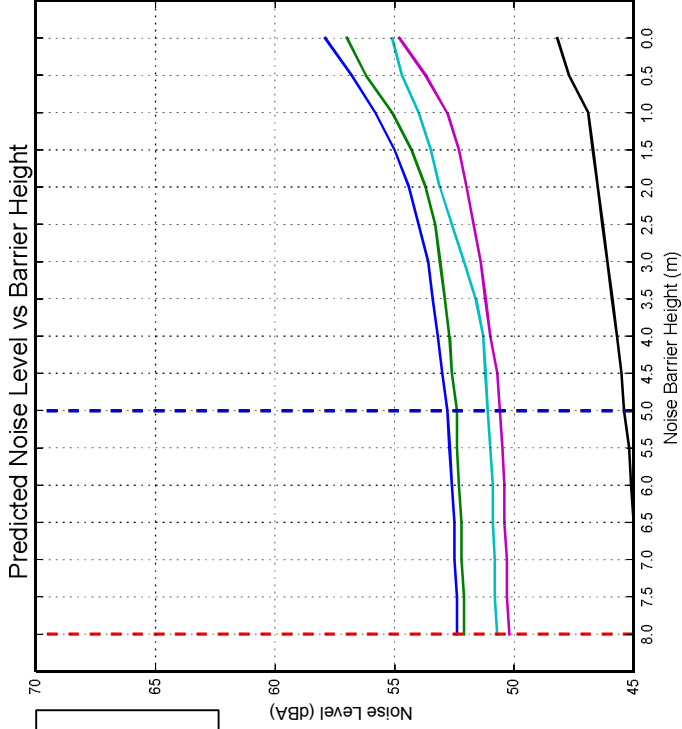
- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 6 m
- Initial Design Height: 4.5 m
- Optimised Design Height: 6.0 m

Noise Barrier Optimisation: NW_PARRA_01B

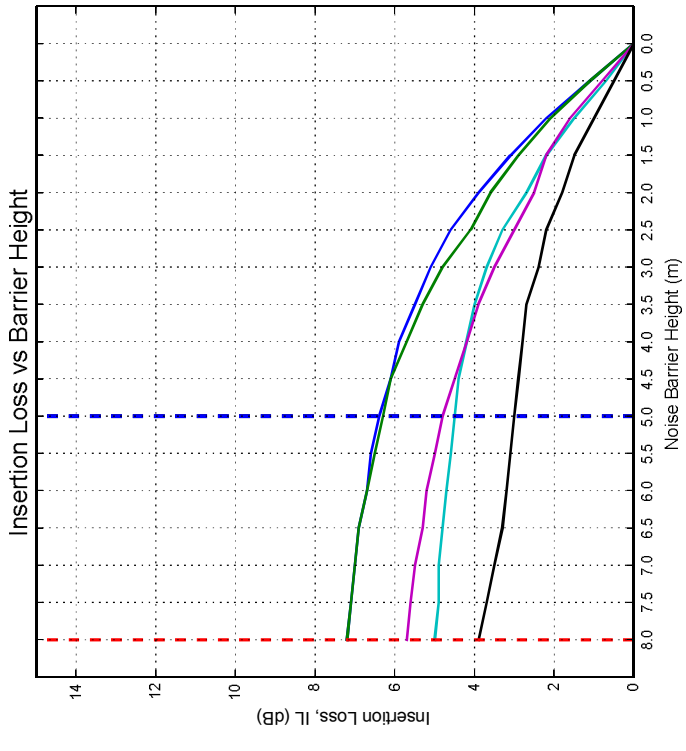


- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 8.0 m
- Initial Design Height: 5.0 m
- Optimised Design Height: 5.0 m
- Triggered Receivers

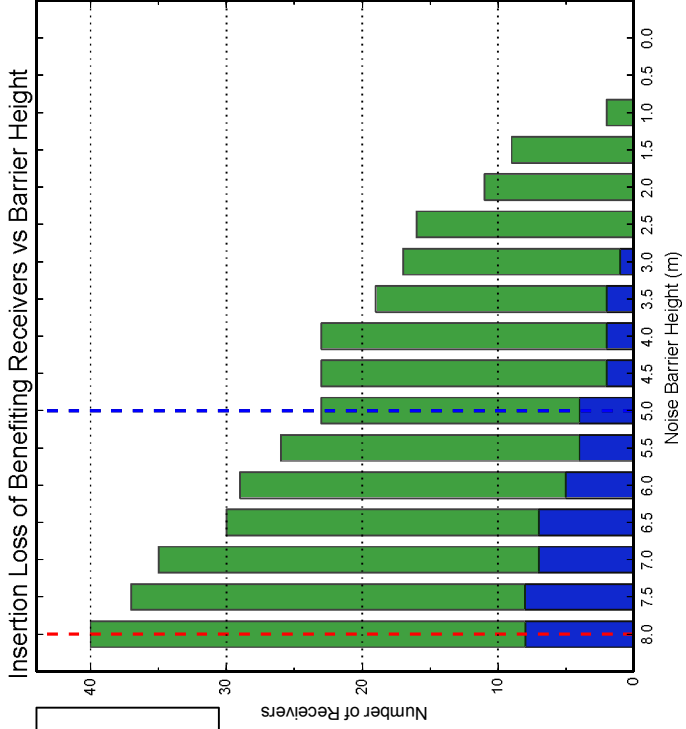
Benefiting Receivers: 40
 Triggered Receivers: 9
 Two Thirds Point: 4.3
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 203 m



- Most Affected Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 5.0 m
- Optimised Design Height: 5.0 m

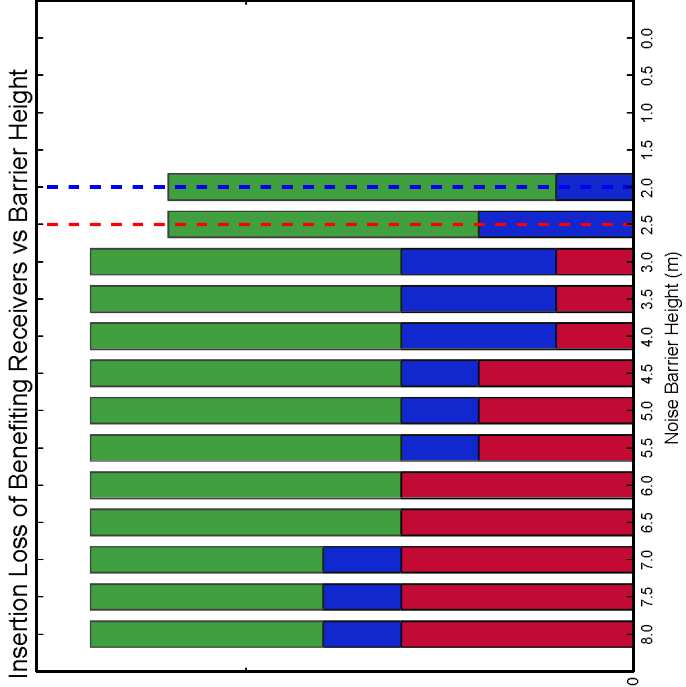
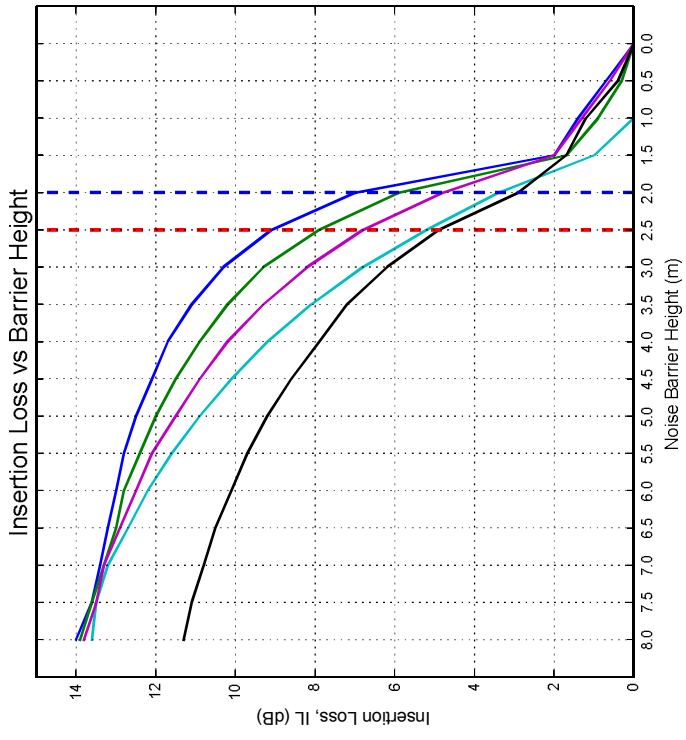
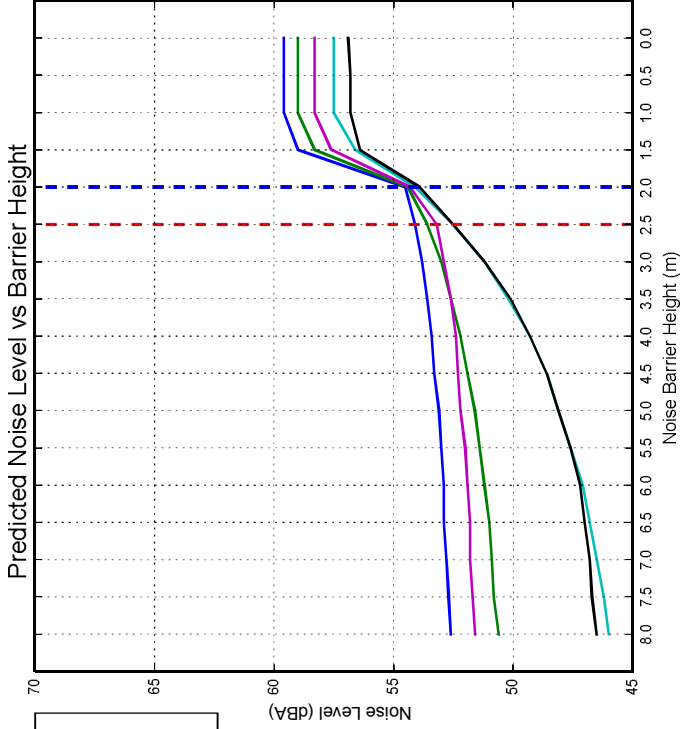
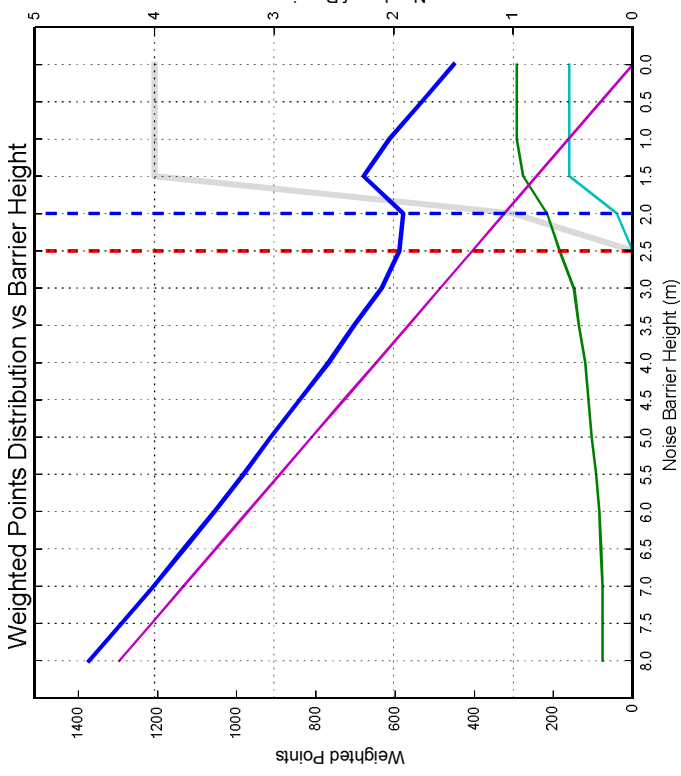


- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 8.0 m
- Initial Design Height: 5.0 m
- Optimised Design Height: 5.0 m



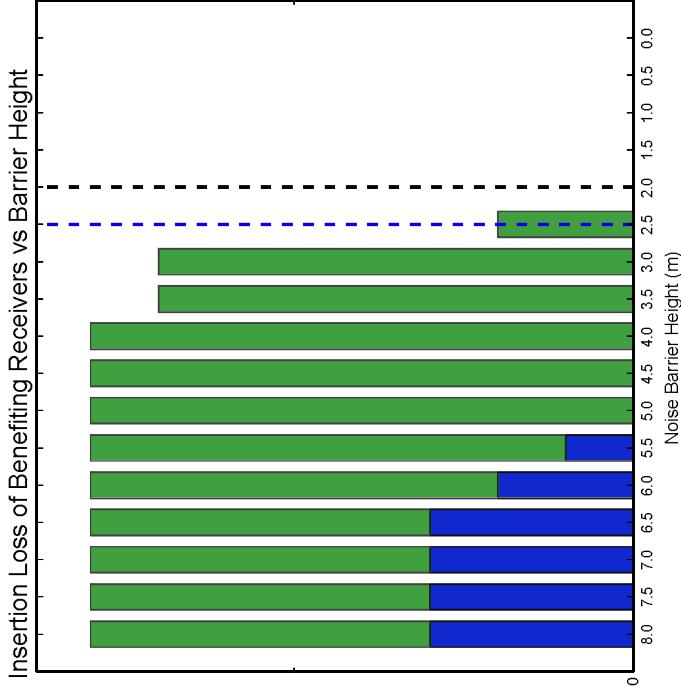
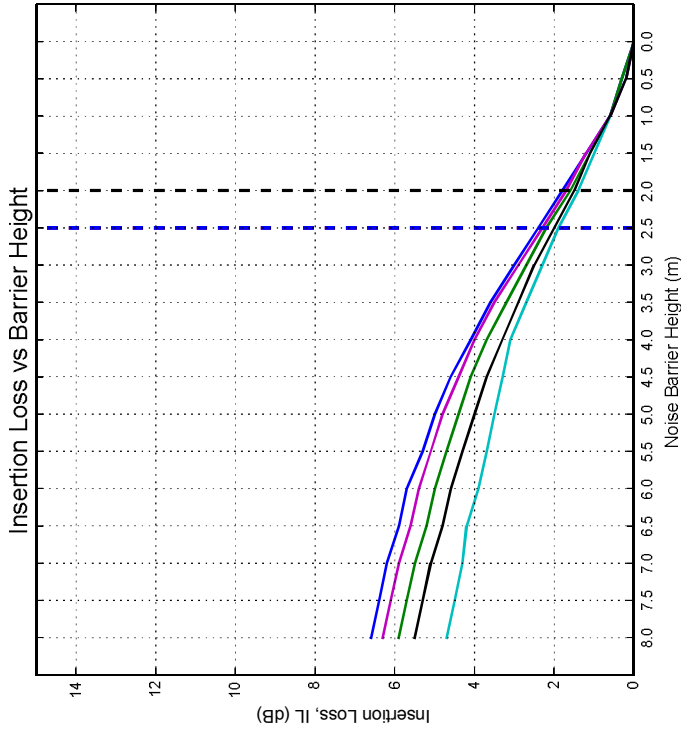
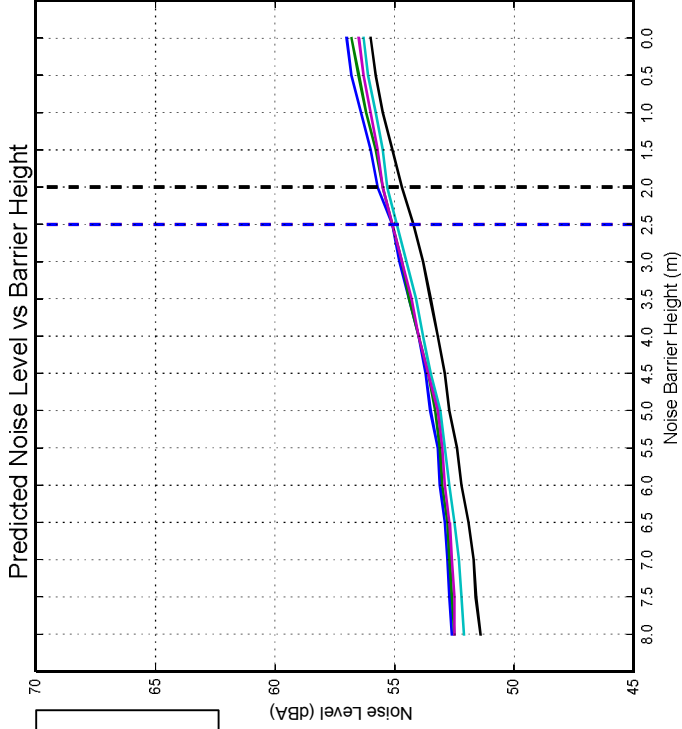
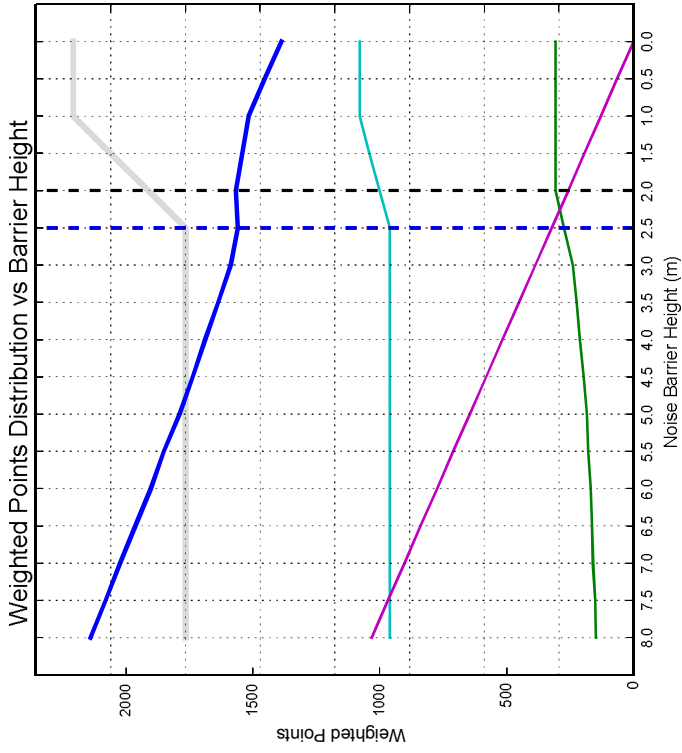
- IL > 2.0 dB
- IL > 5.0 dB
- IL > 10.0 dB

Noise Barrier Optimisation: NW_PARRA_02A-B



Benefiting Receivers: 7
 Triggered Receivers: 4
 Two Thirds Point: 1.3
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 162 m

Noise Barrier Optimisation: NW_SYDNEY_01

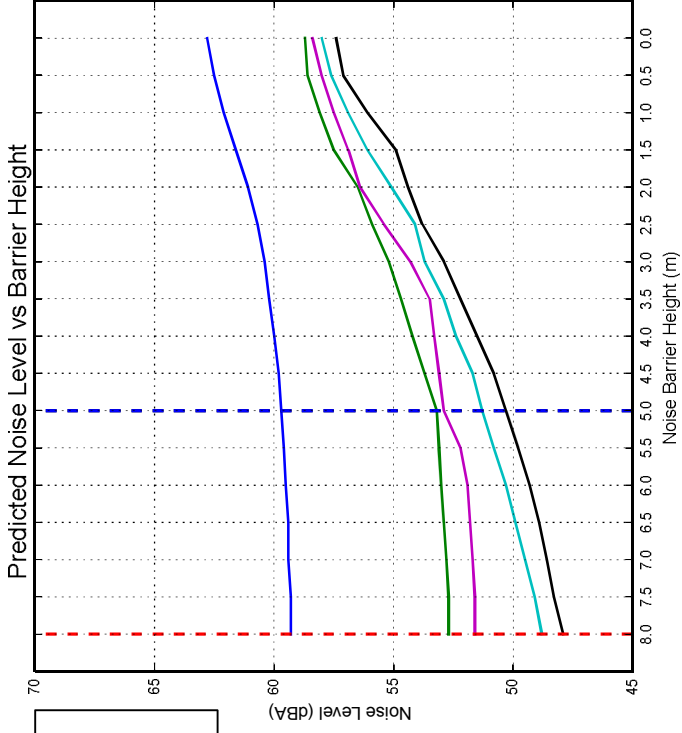
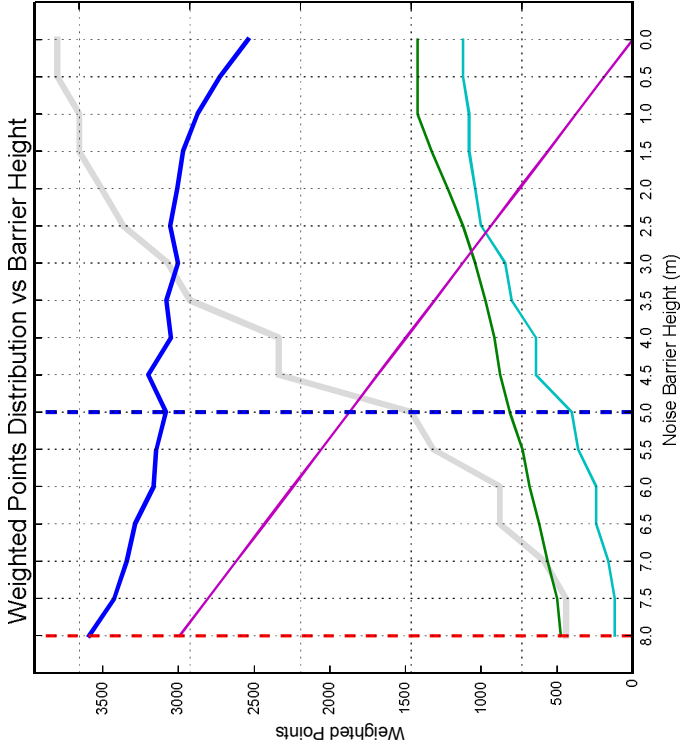


- Total Weighted Points
- WHO Exceedance Points
- RNP Exceedance Points
- Wall Area Points
- Maximum Design Height: 2.5 m
- Initial Design Height: 2.0 m
- Optimised Design Height: 2.5 m
- Triggered Receivers

Benefiting Receivers: 8
 Triggered Receivers: 15
 Two Thirds Point: 13.0
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 129 m

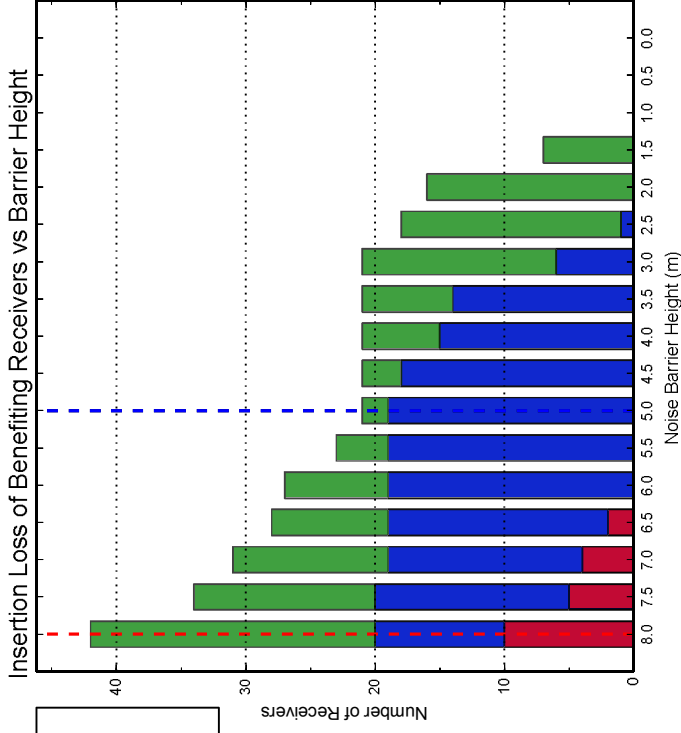
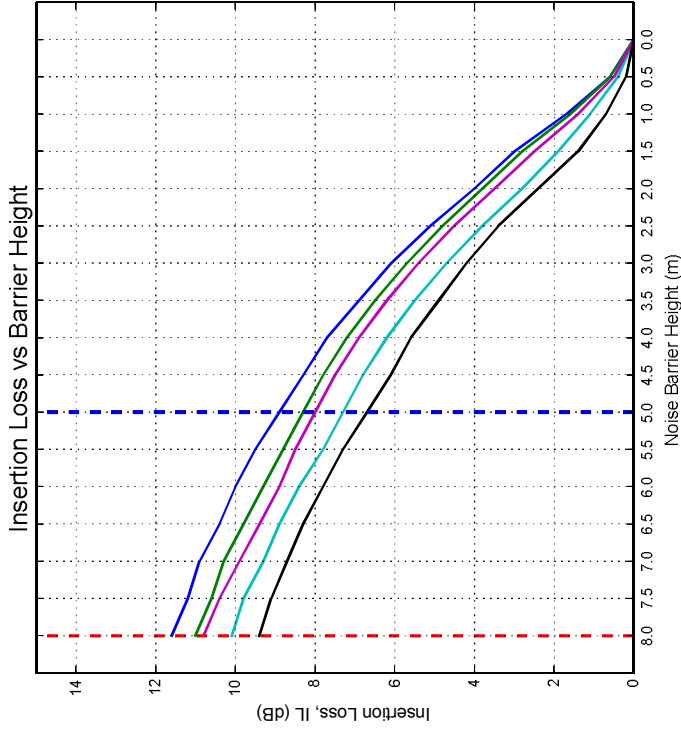
- Most Benefiting Receiver
- 90th %ile of Triggered Receivers
- 66th %ile of Triggered Receivers
- 90th %ile of All Receivers
- 66th %ile of All Receivers
- Maximum Design Height: 2.5 m
- Initial Design Height: 2.0 m
- Optimised Design Height: 2.5 m

Noise Barrier Optimisation: NW_WATTLE_01A



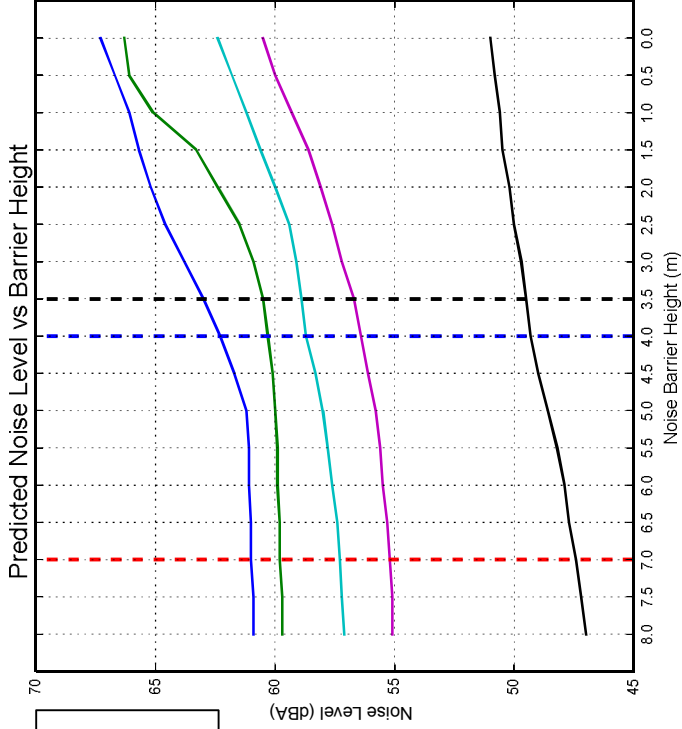
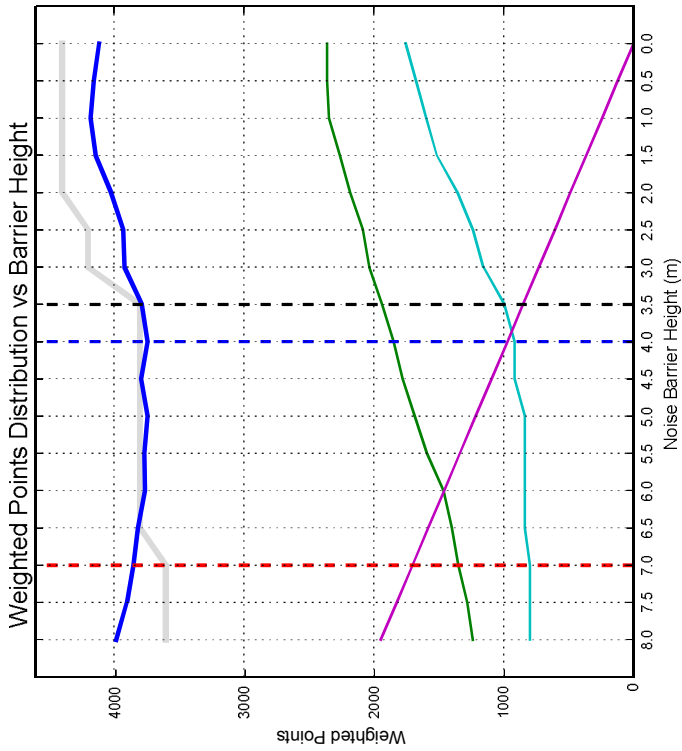
Total Weighted Points: 25
 WHO Exceedance Points: 20
 RNP Exceedance Points: 15
 Wall Area Points: 10
 Maximum Design Height: 8.0 m
 Initial Design Height: 5.0 m
 Optimised Design Height: 5.0 m
 Triggered Receivers: 5

Benefiting Receivers: 42
 Triggered Receivers: 26
 Two Thirds Point: 10.7
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 374 m



Most Benefiting Receiver: 42
 90th %ile of Triggered Receivers: 26
 66th %ile of Triggered Receivers: 10.7
 90th %ile of All Receivers: 5.0
 66th %ile of All Receivers: 0.0
 Maximum Design Height: 8.0 m
 Initial Design Height: 5.0 m
 Optimised Design Height: 5.0 m

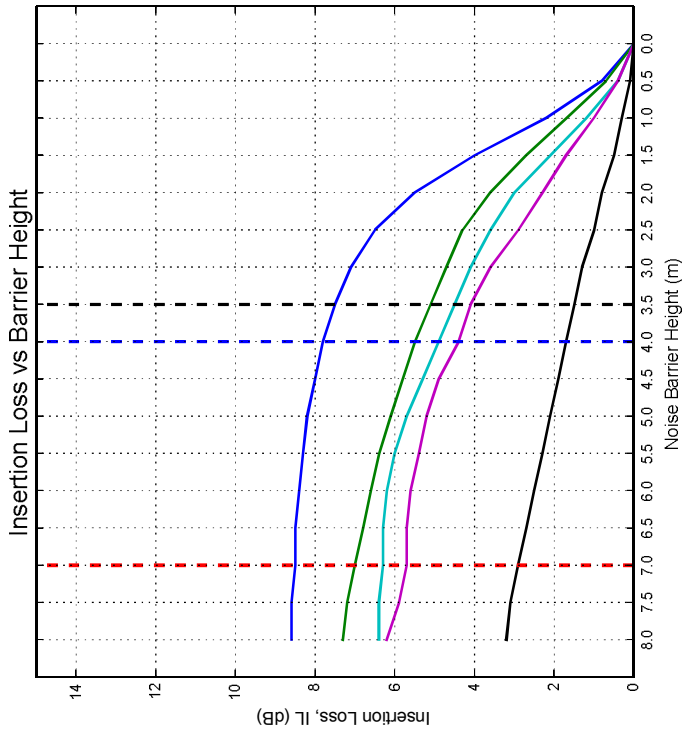
Noise Barrier Optimisation: NW_WATTLE_01B-F



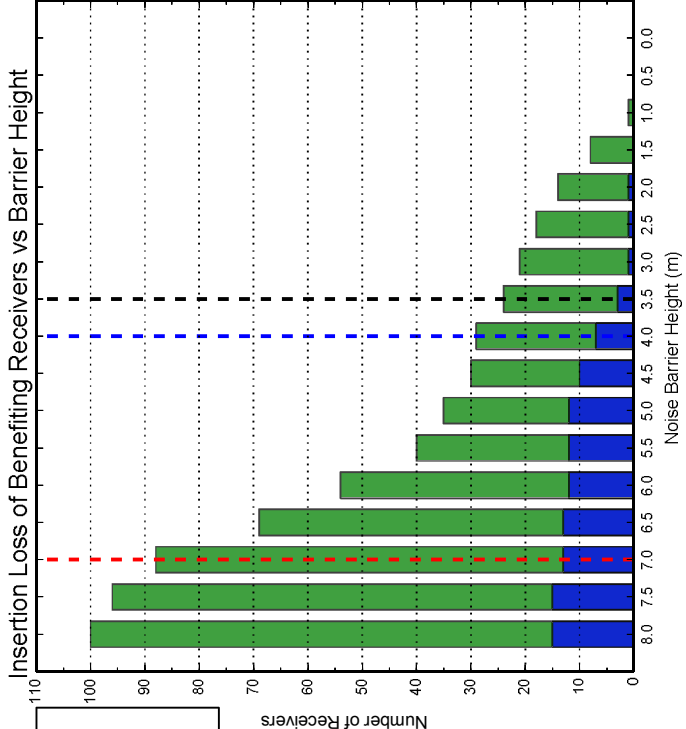
Most Affected Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 7 m
 Initial Design Height: 3.5 m
 Optimised Design Height: 4.0 m

Total Weighted Points
 WHO Exceedance Points
 RNP Exceedance Points
 Wall Area Points
 Maximum Design Height: 7 m
 Initial Design Height: 3.5 m
 Optimised Design Height: 4.0 m
 Triggered Receivers

Benefiting Receivers: 100
 Triggered Receivers: 22
 Two Thirds Point: 19.3
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 244 m

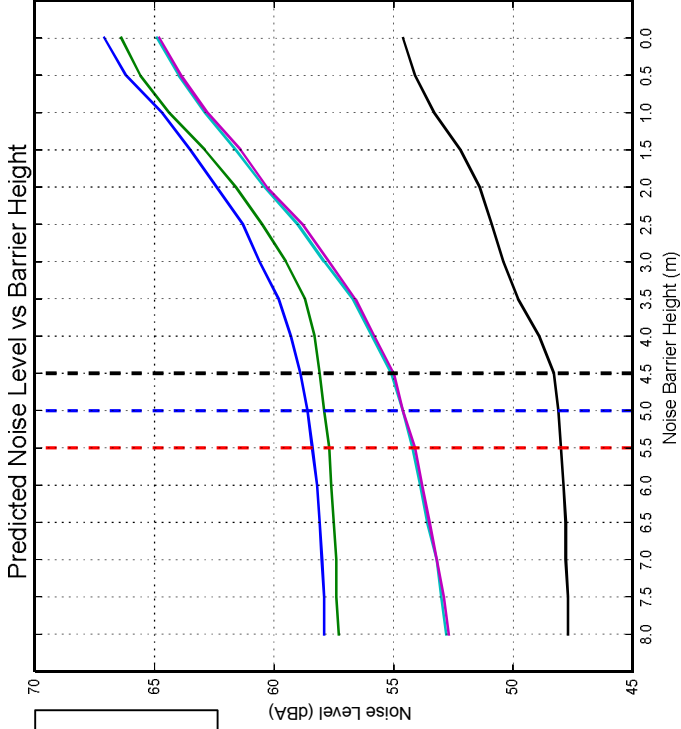
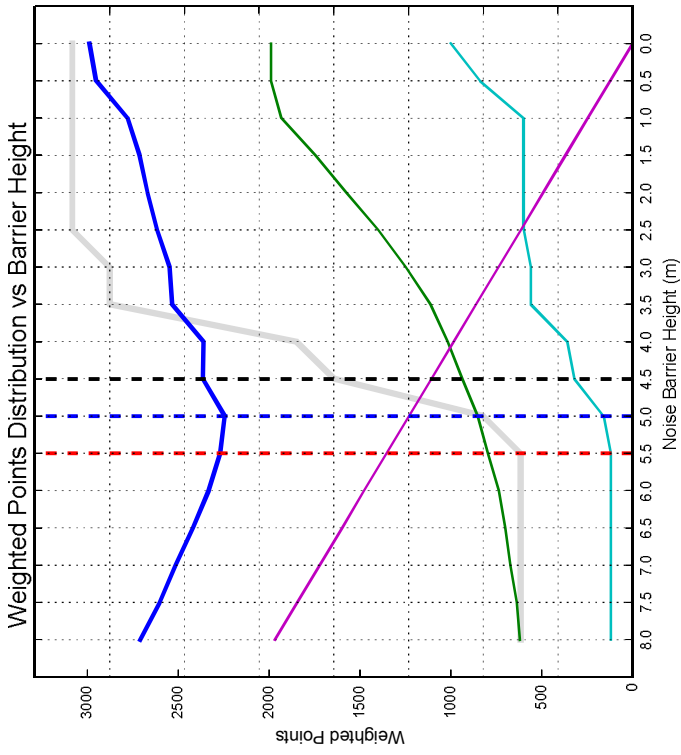


Most Benefiting Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 7 m
 Initial Design Height: 3.5 m
 Optimised Design Height: 4.0 m



IL > 2.0 dB
 IL > 5.0 dB
 IL > 10.0 dB

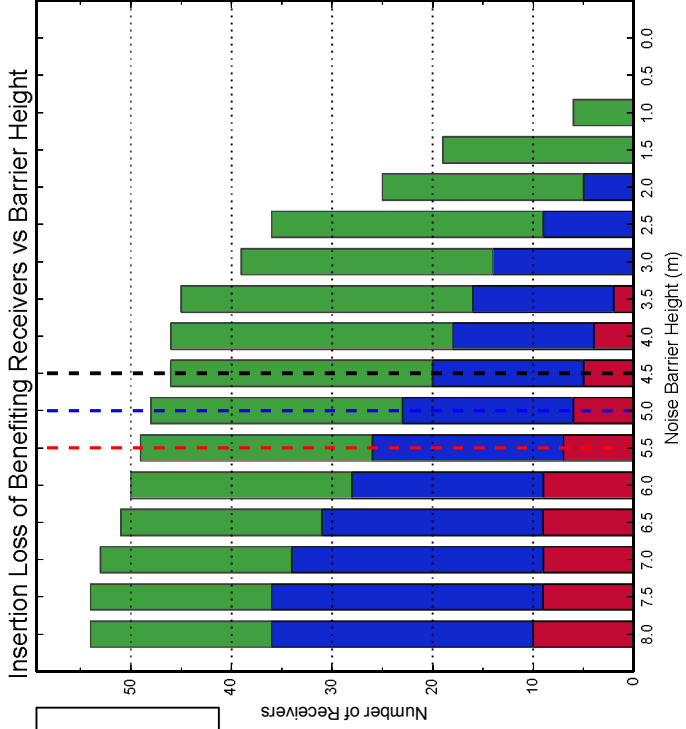
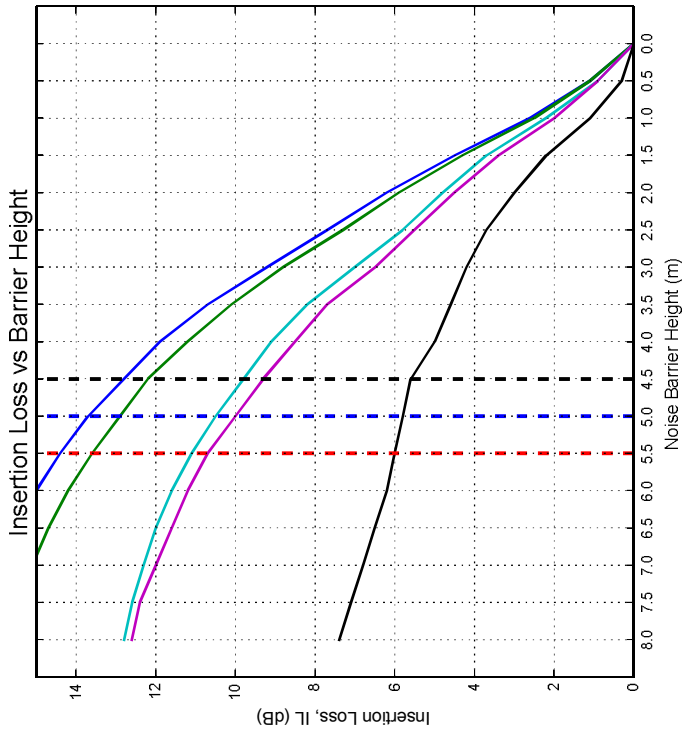
Noise Barrier Optimisation: NW_WATTLE_01G



Most Affected Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 5.5 m
 Initial Design Height: 4.5 m
 Optimised Design Height: 5.0 m

Total Weighted Points
 WHO Exceedance Points
 RNP Exceedance Points
 Wall Area Points
 Maximum Design Height: 5.5 m
 Initial Design Height: 4.5 m
 Optimised Design Height: 5.0 m
 Triggered Receivers

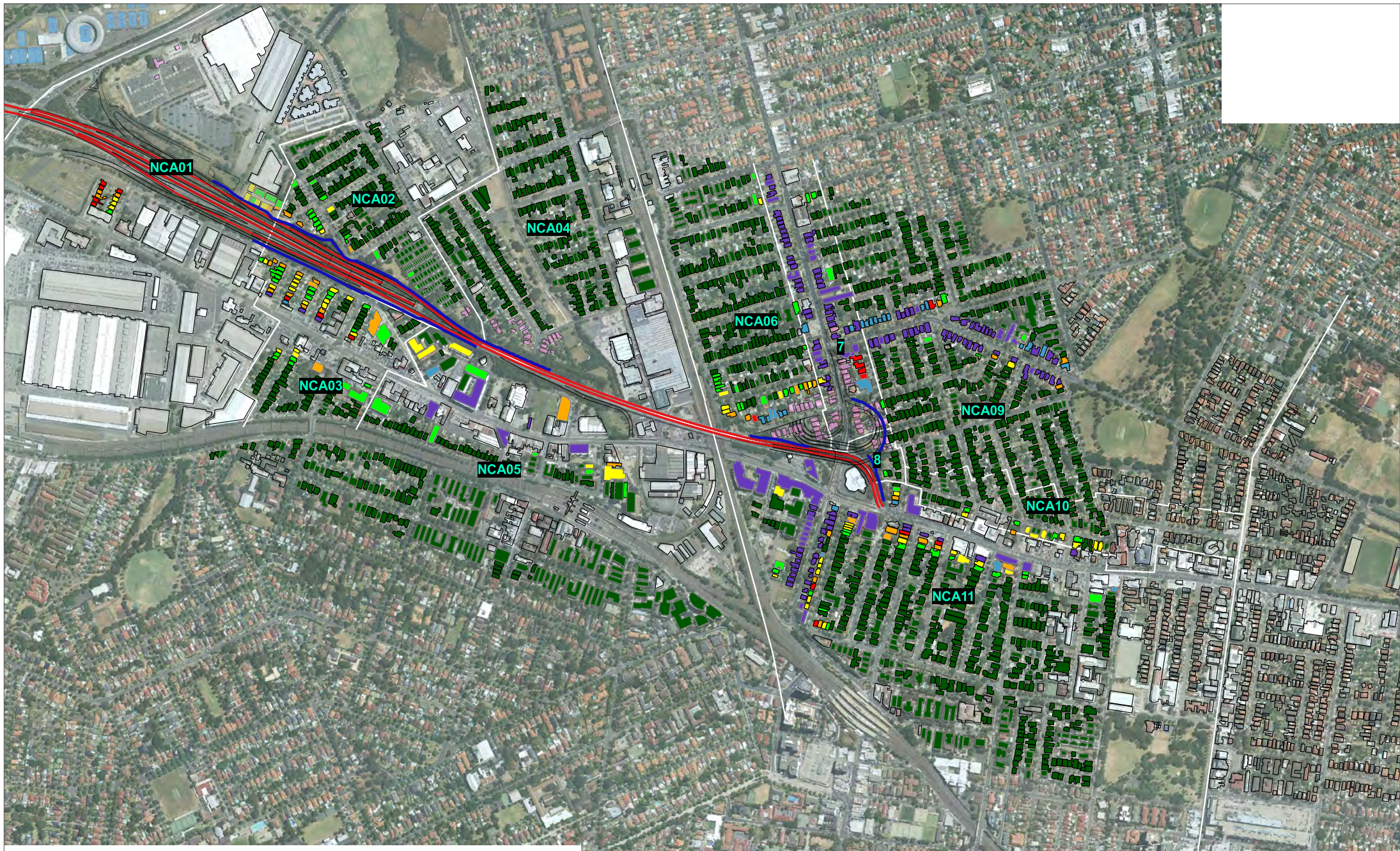
Benefiting Receivers: 54
 Triggered Receivers: 15
 Two Thirds Point: 7.0
 Existing Barrier Height: 0.0 m
 Barrier History: New
 Barrier Length: 246 m



IL > 2.0 dB
 IL > 5.0 dB
 IL > 10.0 dB

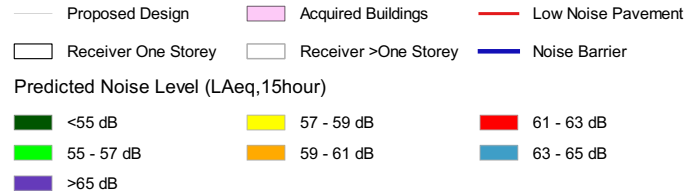
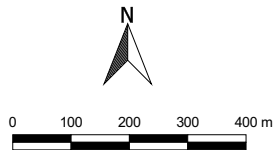
Most Benefiting Receiver
 90th %ile of Triggered Receivers
 66th %ile of Triggered Receivers
 90th %ile of All Receivers
 66th %ile of All Receivers
 Maximum Design Height: 5.5 m
 Initial Design Height: 4.5 m
 Optimised Design Height: 5.0 m

Residential Noise Predictions - Final Build



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LANE COVE
NSW 2066
AUSTRALIA
T: +61 2 9427 8100
www.slrconsulting.com

Project No.:	610.13569
Date:	16/08/2015
Drawn by:	ALW
Scale:	1:13,000
Sheet Size:	@ A4
Projection:	GDA 1994 MGA Zone 56



WestConnex Delivery Authority

WestConnex - M4 East

**Residential Noise Predictions
2021, Daytime
Build (With Mitigation)**

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