Boffa Miskell

RESOURCE RECOVERY PARK DEVELOPMENT

VISUAL ILLUSTRATIONS

UPDATED JULY 2025

Resource Recovery Park Development

MAPS

Figure 1: Location of Visual Illustrations

VISUAL ILLUSTRATIONS

VS 1A: View from River Trail East Side Hutt River - Single Frame (Existing View)
VS 1B: View from River Trail East Side Hutt River - Single Frame (Proposed View)
VS 1C: View from River Trail East Side Hutt River - Single Frame (Proposed View with Mitigation Planting)

VS 2A: View from River Trail West Side Hutt River - Panoramas (Existing and Proposed Views)
VS 2B: View from River Trail West Side Hutt River - Panoramas (Existing and Proposed View with Mitigation Planting)

VS 3A: View from River Trail West Side Hutt River - Panoramas (Existing and Proposed Views)
VS 3B: View from River Trail West Side Hutt River - Panoramas (Existing and Proposed View with Mitigation Planting)

VS 4A: View from Mary Huse Grove - Single Frame (Existing View)
VS 4B: View from Mary Huse Grove - Single Frame (Proposed View - without mitigation)
VS 4C: View from Mary Huse Grove - Single Frame (Proposed View Post Construction)
VS 4D: View from Mary Huse Grove - Single Frame (Proposed View with Mitigation Planting at 5yrs)

VS 5A: View from Mary Huse Grove (North) - Single Frame (Existing View)
VS 5B: View from Mary Huse Grove (North) - Single Frame (Proposed View - without mitigation)
VS 5C: View from Mary Huse Grove (North) - Single Frame (Proposed View with Mitigation Planting at 5yrs)

VS 6A: View from Hebden Crescent - Single Frame (Existing View)
VS 6B: View from Hebden Crescent - Single Frame (Proposed View -without mitigation)
VS 6C: View from Hebden Crescent - Single Frame (Proposed View with Mitigation Planting)

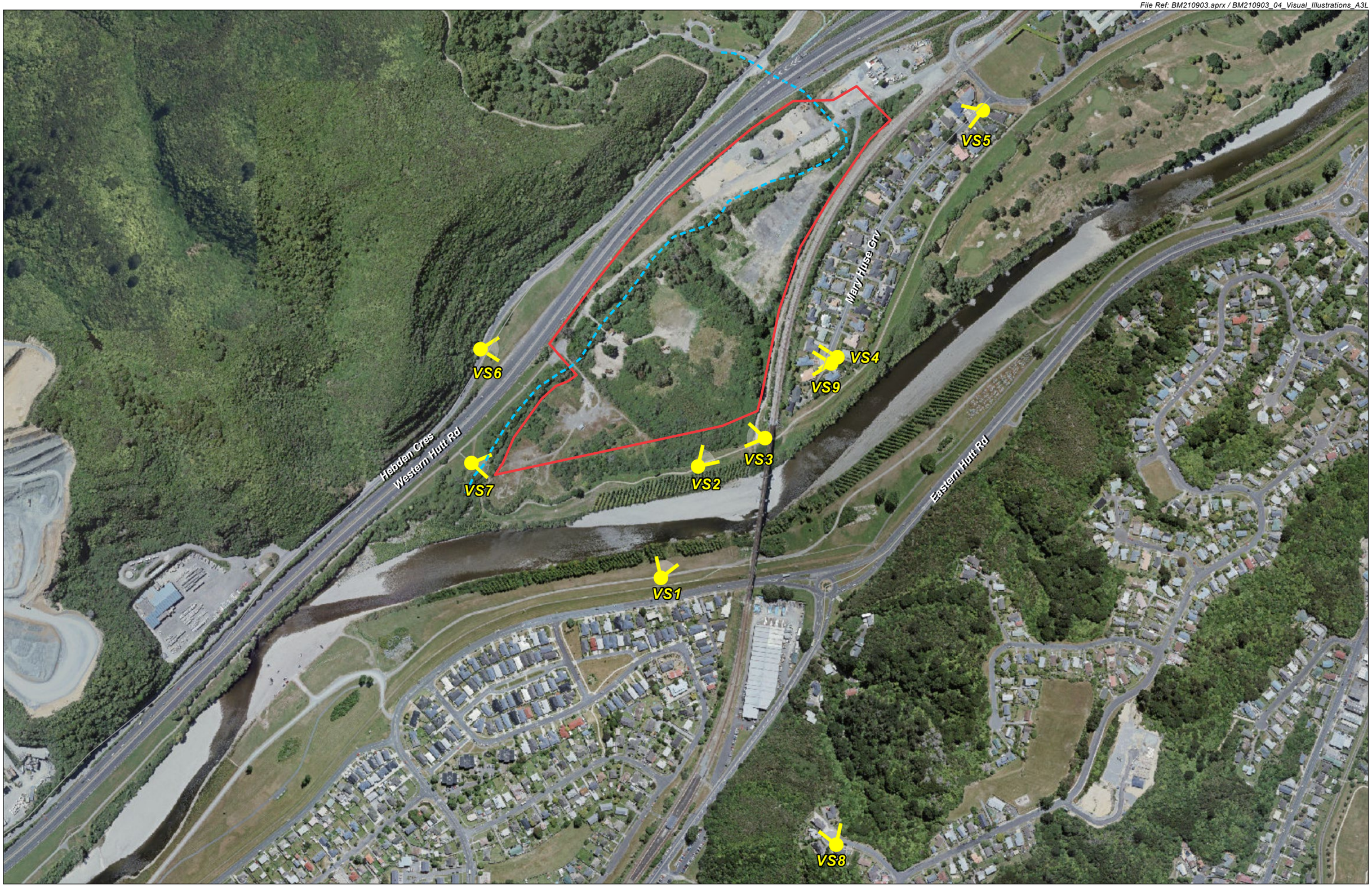
VS 7: View from River Trail West Side Hutt River - Panoramas (Existing and Proposed Views)

VS 8A: View from Aldersgate Grove - Single Frame (Existing View)
VS 8B: View from Aldersgate Grove - Single Frame (Proposed View - without mitigation)
VS 8C: View from Aldersgate Grove - Single Frame (Proposed View with Mitigation Planting)

VS 9A: View from Mary Huse Grove - Single Frame (Existing View)
VS 9B: View from Mary Huse Grove - Single Frame (Proposed View - without mitigation)
VS 9C: View from Mary Huse Grove - Single Frame (Proposed View with Mitigation Planting 5yrs)

FIGURES

Figure 2: Visual Illustrations - Methodology



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0 100 m

1:5,000 @ A3

Data Sources: Eagle Technology, Land Information New Zealand, GEBCO, Community maps contributors, BML

Projection: NZGD 2000 New Zealand Transverse Mercator

LEGEND

- Site Boundary
- Illustration Viewpoints
- Dry Creek

RESOURCE RECOVERY PARK DEVELOPMENT

Location of Visual Illustrations

Date: 22 January 2024 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager:Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

FIGURE

1

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Viewpoint Details

NZTM Easting	: 1 765 224 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 921 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 26.6m / 1.6m	Projection	: NA
Date of Photography	: 16:07pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS1: River Trail East Side Hutt River

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

1A

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Viewpoint Details

NZTM Easting	: 1 765 224 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 921 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 26.6m / 1.6m	Projection	: NA
Date of Photography	: 16:07pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS1: River Trail East Side Hutt River

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

1B

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Viewpoint Details

NZTM Easting	: 1 765 224 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 921 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 26.6m / 1.6m	Projection	: NA
Date of Photography	: 16:07pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS1: River Trail East Side Hutt River

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

1C

Existing View

Proposed View

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Viewpoint Details

NZTM Easting	: 1 765 278 mE	Horizontal Field of View	: 90°
NZTM Northing	: 5 441 082 mN	Vertical Field of View	: 30°
Elevation/Eye Height	: 28.6m / 1.6m	Projection	: Rectilinear
Date of Photography	: 2:22pm 4 September 2022 NZST	Image Reading Distance @ A3 is 20 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS2: River Trail West Side Hutt River

Date: 6 December 2022 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

2A

Existing View

Proposed View with Mitigation Planting (after 5 years)

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Viewpoint Details

NZTM Easting	: 1 765 278 mE
NZTM Northing	: 5 441 082 mN
Elevation/Eye Height	: 28.6m / 1.6m
Date of Photography	: 2:22pm 4 September 2022 NZST

Horizontal Field of View	: 90°
Vertical Field of View	: 30°
Projection	: Rectilinear
Image Reading Distance @ A3 is 20 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS2: River Trail West Side Hutt River

Date: 6 December 2022 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

2B

Existing View

Proposed View

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Viewpoint Details

NZTM Easting	: 1 765 374 mE	Horizontal Field of View	: 90°
NZTM Northing	: 5 441 123 mN	Vertical Field of View	: 30°
Elevation/Eye Height	: 28.6m / 1.6m	Projection	: Rectilinear
Date of Photography	: 2:46pm 4 September 2022 NZST	Image Reading Distance @ A3 is 20 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS3: River Trail West Side Hutt River

Date: 6 December 2022 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

3A

Existing View

Proposed View with Mitigation Planting (after 5 years)

Boffa Miskell

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Viewpoint Details

NZTM Easting	: 1 765 374 mE	Horizontal Field of View	: 90°
NZTM Northing	: 5 441 123 mN	Vertical Field of View	: 30°
Elevation/Eye Height	: 28.6m / 1.6m	Projection	: Rectilinear
Date of Photography	: 2:46pm 4 September 2022 NZST	Image Reading Distance @ A3 is 20 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS3: River Trail West Side Hutt River

Date: 6 December 2022 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

3B

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Viewpoint Details

NZTM Easting	: 1 765 479 mE
NZTM Northing	: 5 441 240mN
Elevation/Eye Height	: 28.8m / 1.6m
Date of Photography	: 1.07pm 18 July 2025 NZST

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS4: Mary Huse Grove

Date: 24 July 2025 | Revision: 2

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

4A

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Viewpoint Details

NZTM Easting	: 1 765 479 mE
NZTM Northing	: 5 441 240mN
Elevation/Eye Height	: 28.8m / 1.6m
Date of Photography	: 1.07pm 18 July 2025 NZST

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS4: Mary Huse Grove

Date: 24 July 2025 | Revision: 2

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

4B

Proposed View with Mitigation Planting (at time of planting)

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Viewpoint Details

NZTM Easting	: 1 765 479 mE
NZTM Northing	: 5 441 240mN
Elevation/Eye Height	: 28.8m / 1.6m
Date of Photography	: 1.07pm 18 July 2025 NZST

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS4: Mary Huse Grove

Date: 24 July 2025 | Revision: 2

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

4C

Proposed View with Mitigation Planting (after 5 years)

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Viewpoint Details

NZTM Easting	: 1 765 479 mE
NZTM Northing	: 5 441 240mN
Elevation/Eye Height	: 28.8m / 1.6m
Date of Photography	: 1.07pm 18 July 2025 NZST

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS4: Mary Huse Grove

Date: 24 July 2025 | Revision: 2

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

4D

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Viewpoint Details

NZTM Easting	: 1 765 689 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 597 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 30.8m / 1.6m	Projection	: NA
Date of Photography	: 10:27am 29 March 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS5: Mary Huse Grove

Date: 24 July 2025 | Revision: 2

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

5A

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Viewpoint Details

NZTM Easting	: 1 765 689 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 597 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 30.8m / 1.6m	Projection	: NA
Date of Photography	: 10:27am 29 March 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS5: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

5B

Proposed View with Mitigation Planting (after 5 years)

Boffa Miskell

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Viewpoint Details

NZTM Easting	: 1 765 689 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 597 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 30.8m / 1.6m	Projection	: NA
Date of Photography	: 10:27am 29 March 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS5: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

5C

Existing View

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Viewpoint Details

NZTM Easting	: 1 764 963 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 252 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 33.7m / 1.6m	Projection	: NA
Date of Photography	: 3:20pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS6: Hebden Crescent

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

6A

Proposed View

Boffa Miskell

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Viewpoint Details

NZTM Easting	: 1 764 963 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 252 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 33.7m / 1.6m	Projection	: NA
Date of Photography	: 3:20pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS6: Hebden Crescent

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

6B

Proposed View with Mitigation Planting (after 5 years) - none visible

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Viewpoint Details

NZTM Easting	: 1 764 963 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 252 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 33.7m / 1.6m	Projection	: NA
Date of Photography	: 3:20pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS6: Hebden Crescent

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

6C

Existing View

Proposed View (Proposed Buildings not Visible)

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Viewpoint Details

NZTM Easting	: 1 765 374 mE	Horizontal Field of View	: 90°
NZTM Northing	: 5 441 123 mN	Vertical Field of View	: 30°
Elevation/Eye Height	: 28.6m / 1.6m	Projection	: Rectilinear
Date of Photography	: 2:46pm 4 September 2022 NZST	Image Reading Distance @ A3 is 20 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS7: River Trail Looking North

Date: 6 December 2022 | Revision: 0

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bec.Ramsey@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

7

Existing View

Boffa Miskell

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Viewpoint Details

NZTM Easting	: 1 765 477 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 534 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 100.0m / 1.6m	Projection	: NA
Date of Photography	: 3:41pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS8: Aldersgate Grove

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

8A

Proposed View

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Viewpoint Details

NZTM Easting	: 1 765 477 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 534 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 100.0m / 1.6m	Projection	: NA
Date of Photography	: 3:41pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS8: Aldersgate Grove

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

8B

Proposed View with Mitigation Planting (after 5 years)

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Viewpoint Details

NZTM Easting	: 1 765 477 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 440 534 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 100.0m / 1.6m	Projection	: NA
Date of Photography	: 3:41pm 11 April 2022 NZST	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS8: Aldersgate Grove

Date: 22 January 2024 | Revision: 1

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: DIr | Checked: BRa

VS

8C

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Viewpoint Details

NZTM Easting	: 1 765 470 mE
NZTM Northing	: 5 441 238 mN
Elevation/Eye Height	: 28m / 1.6m
Date of Photography	: 10:00am 12 January 2024 NZDT

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS9: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

9A

Boffa Miskell

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Viewpoint Details

NZTM Easting	: 1 765 470 mE
NZTM Northing	: 5 441 238 mN
Elevation/Eye Height	: 28m / 1.6m
Date of Photography	: 10:00am 12 January 2024 NZDT

Horizontal Field of View	: 74°
Vertical Field of View	: 25°
Projection	: NA
Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS9: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

9B

Proposed View with Mitigation Planting (at time of planting)

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Viewpoint Details

NZTM Easting	: 1 765 470 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 238 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 28m / 1.6m	Projection	: NA
Date of Photography	: 10:00am 12 January 2024 NZDT	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS9: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

9C

Proposed View with Mitigation Planting (after 5 years)

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Viewpoint Details

NZTM Easting	: 1 765 470 mE	Horizontal Field of View	: 74°
NZTM Northing	: 5 441 238 mN	Vertical Field of View	: 25°
Elevation/Eye Height	: 28m / 1.6m	Projection	: NA
Date of Photography	: 10:00am 12 January 2024 NZDT	Image Reading Distance @ A3 is 25 cm	

Data Sources:

RESOURCE RECOVERY PARK DEVELOPMENT

VS9: Mary Huse Grove

Date: 30 July 2025 | Revision: 3

Plan prepared for Richard Burell by Boffa Miskell Limited

Project Manager: Bruno.Gilmour@boffamiskell.co.nz | Drawn: MBa | Checked: EMc

VS

9D

VISUAL ILLUSTRATIONS - METHODOLOGY

SITE VISIT & PHOTOGRAPHY

Site photographs were taken with a Canon digital SLR camera fitted with a 24-120mm focal length lens The lens was set at 24mm (74 degree field of view) to capture the maximum site context. A number of photos were taken at predetermined viewpoints, situated on public land. The locations of each viewpoint were fixed by GPS receiver built in to the camera.

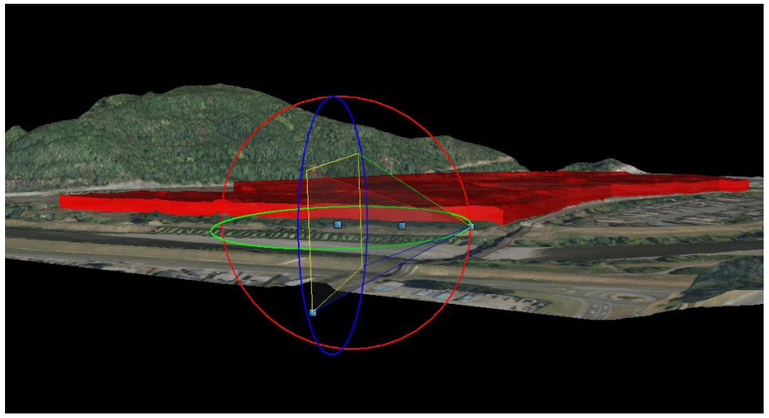
NZILA GUIDELINES & PANORAMA PREPARATION

The illustrations have been produced in accordance with the NZILA Best Practice Guidelines for Visual Simulations (BPG 10.2).

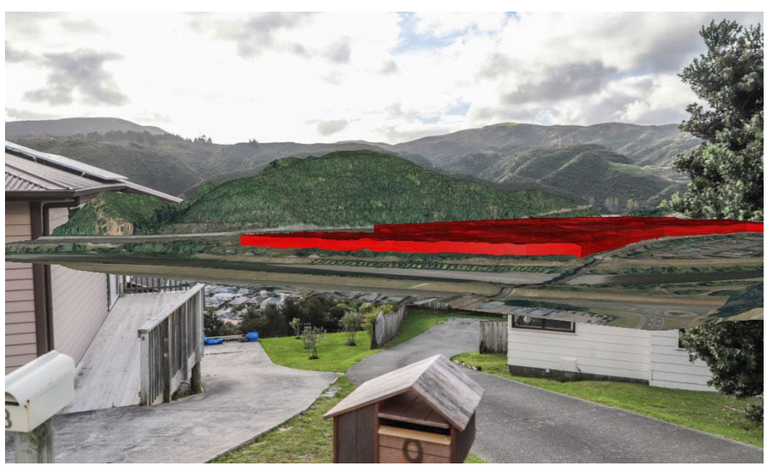
Camera lenses of different focal lengths capture images with differing fields of view. As can be seen below (derived from Fig 9 of the NZILA BPG), a photo taken with a 24mm lens will provide a horizontal field of view of 74° - using a 50mm lens will provide a "cropped" 40° version of the same view.

COMPOSITING

Virtual camera views were then created in 3D modelling software, and a combination of 3D contour data, Lidar and 3D engineering drawings turned on in each of these views.



These were then matched to the corresponding photograph, using identifiable features in the landscape and the characteristics of the camera to match the two together. The illustrations were then assembled using graphic design software.



RECOMMENDED IMAGE READING DISTANCE

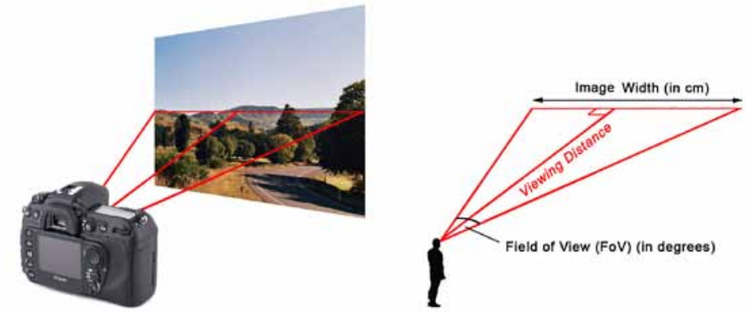
Viewing distance depends on the field of view of the image as well as the printed size. It is calculated for each view.

Views which have a field of view of 74° (24mm lens) should be viewed from a distance of 25 cm when printed at A3 where the reproduced width of the image is 375mm.

Views which have a field of view of 40° (50mm lens) should be viewed from a distance of 50 cm when printed at A3 where the reproduced width of the image is 365mm.

For other combinations of focul length and printed size the image reading distance is calculated for that image.

This will ensure that each illustration is viewed as if standing on-site at the actual camera location, and is in accordance with Section 7.11 of the NZILA BPG (reproduced below). Users are encouraged to print these pages on A3 transparency, go to the viewpoint and hold at the specified reading distance in order to verify the methodology.



Geometry of Image Reading Distance

About Boffa Miskell

Boffa Miskell is a leading New Zealand professional services consultancy with offices in Auckland, Hamilton, Tauranga, Wellington, Christchurch, Dunedin and Queenstown. We work with a wide range of local and international private and public sector clients in the areas of planning, urban design, landscape architecture, landscape planning, ecology, biosecurity, cultural heritage, graphics and mapping. Over the past four decades we have built a reputation for professionalism, innovation and excellence. During this time we have been associated with a significant number of projects that have shaped New Zealand's environment.

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