

# SOUTHWEST WASTEWATER TREATMENT PLANT NOR PROJECT

LANDSCAPE AND VISUAL ASSESSMENT  
GRAPHIC SUPPLEMENT

AUGUST 2023



# SOUTHWEST WASTEWATER TREATMENT PLANT NOR PROJECT

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## FIGURES

FIGURE 1: Auckland Unitary Plan Zoning

FIGURE 2: Viewpoint Locations

## VISUAL SIMULATIONS

VP1: View from outside the entrance to 147 of McLarin Road (40 ° Single Frame)

VS2: View from 454 Glenbrook Beach Road  
(Existing 90° Panorama)

VS2A: View from 454 Glenbrook Beach Road  
(Proposed Stage 1 & 2 Without Planting 90° Panorama Vs Proposed Stage 3 Without Planting 90° Panorama)

VS2B: View from 454 Glenbrook Beach Road  
(Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting 90° Panorama)

VS3: View from Glenbrook Beach Road at the South-Western corner of the site (Existing 90° Panorama)

VS3A: View from Glenbrook Beach Road at the South-Western corner of the site  
(Proposed Stage 1 & 2 Without Planting 90° Panorama Vs Proposed Stage 3 Without Planting 90° Panorama)

VS3B: View from Glenbrook Beach Road at the South-Western corner of the site  
(Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting 90° Panorama)

VP4: View from entrance to 126 Glenbrook Beach Road (40 ° Single Frame)

VP5: View from entrance to 131 Percy Millen Drive (40 ° Single Frame)

VS6A: View from Glenbrook Beach Road opposite the residential property at 339A Glenbrook Beach Road  
(Existing 90° Panorama)

VS6B: View from Glenbrook Beach Road opposite the residential property at 339A Glenbrook Beach Road  
(Proposed Stage 1 & 2 Without Planting 90° Panorama Vs Proposed Stage 3 Without Planting 90° Panorama)

VS6C: View from Glenbrook Beach Road opposite the residential property at 339A Glenbrook Beach Road  
(Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting 90° Panorama)

# SOUTHWEST WASTEWATER TREATMENT PLANT NoR PROJECT

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## VISUAL SIMULATIONS

VS7: View from the North-Western corner of site from Glenbrook Beach Road  
(Existing 90° Panorama)

VS7A: View from the North-Western corner of site from Glenbrook Beach Road  
(Proposed Stage 1 & 2 Without Planting 90° Panorama Vs Proposed Stage 3 Without Planting 90°  
Panorama)

VS7B: View from the North-Western corner of site from Glenbrook Beach Road  
( (Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting  
90° Panorama)

VS8: View from 393A Glenbrook Beach Road  
(Existing 90° Panorama)

VS8A: View from 393A Glenbrook Beach Road  
(Proposed Stage 2 Without Planting 90° Panorama Vs Proposed Stage 2 Without Planting 90°  
Panorama)

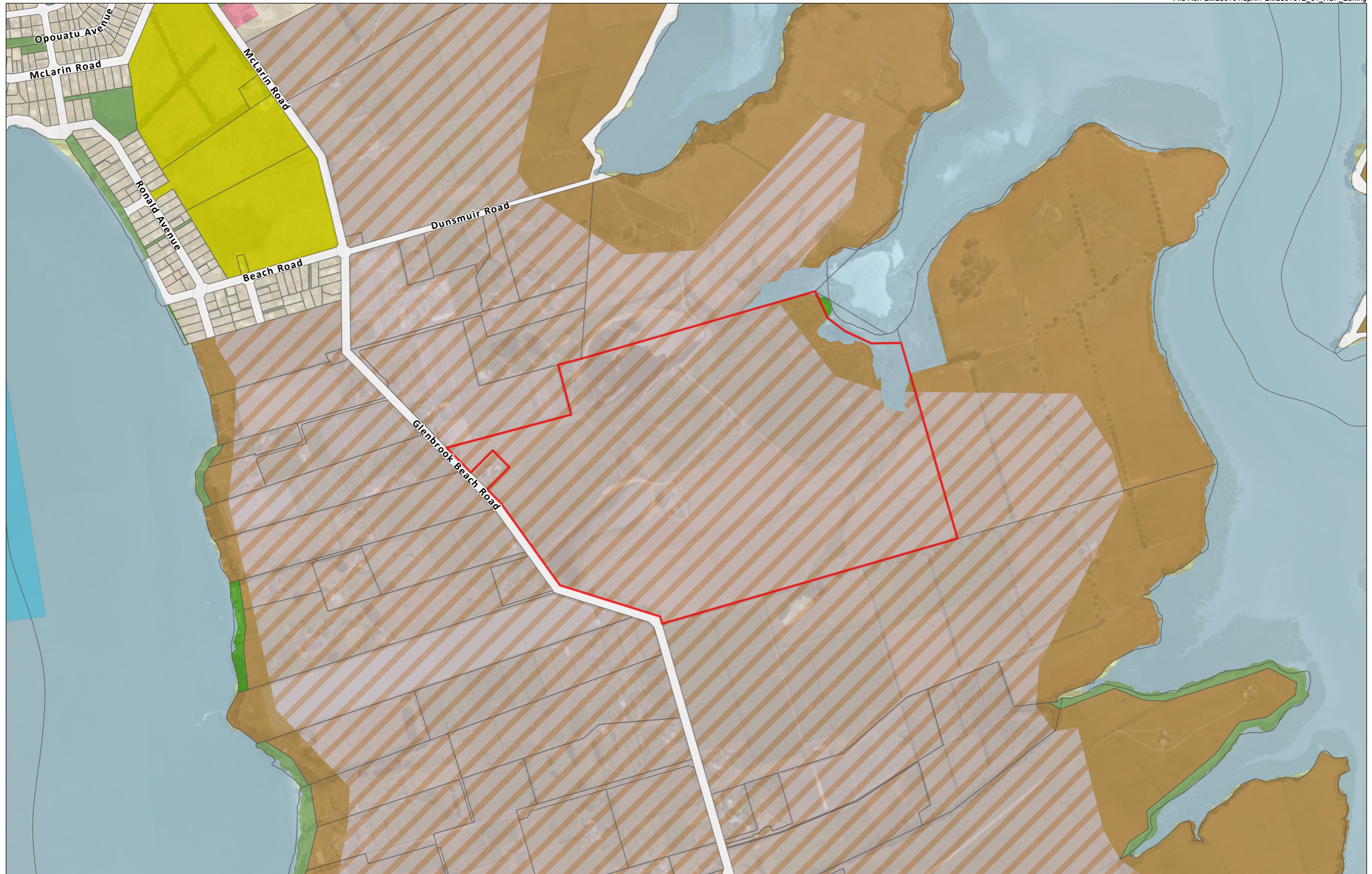
VS8B: View from 393A Glenbrook Beach Road  
(Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting  
90° Panorama)

VS9: View from 450 Glenbrook Beach Road  
(Existing 90° Panorama)

VS9A: View from 450 Glenbrook Beach Road  
(Proposed Stage 1 & 2 Without Planting 90° Panorama Vs Proposed Stage 3 Without Planting 90°  
Panorama)

VS9B: View from 450 Glenbrook Beach Road  
(Proposed Stage 1 & 2 With Planting 90° Panorama Vs Proposed Stage 3 With Planting  
90° Panorama)

FIGURE 3: Visual Simulations - Methodology







Existing View



Existing View



*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*





*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*



Existing View



*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*



*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*



Existing View



Existing View



Existing View



*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*





*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*



Existing View



*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*



*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*



Existing View



*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*



*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*



Existing View





*Proposed View Stage 1 & 2 Without Planting*



*Proposed View Stage 3 Without Planting*



*Proposed View Stage 1 & 2 With Planting*



*Proposed View Stage 3 With Planting*

# VISUALISATIONS - METHODOLOGY

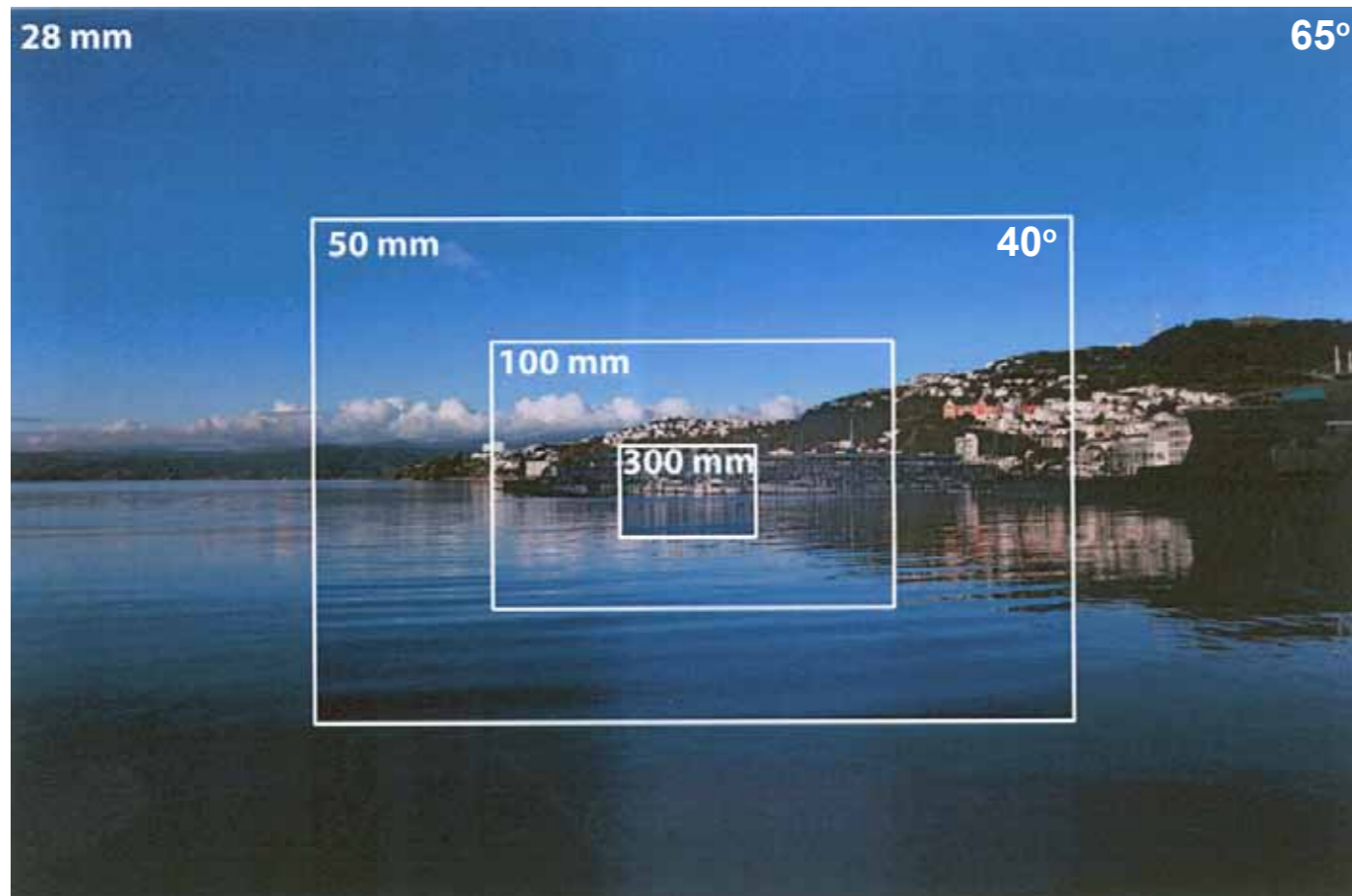
## SITE VISIT & PHOTOGRAPHY

Site photographs were taken with a Canon digital SLR camera fitted with a 50mm focal length lens, mounted on a tripod and panoramic head. A series of photos were taken at predetermined viewpoints, situated on public land. The locations of each viewpoint were fixed using an EMLID Reach 2 GPS Rover Unit.

## NZILA GUIDELINES & PANORAMA PREPARATION

The visualisations have been produced in accordance with the NZILA Best Practice Guidelines for Visual Simulations (BPG 10.2) and also adhere to Boffa Miskell's internal Visualisation Guidelines.

Camera lenses with 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 28mm lens provides a horizontal field of view of 65°. A 50mm lens will provide a cropped (40°) version of the same view. So panoramas can be created by taking multiple 28mm or 50mm photos (in "portrait" mode), and using digital stitching software to merge and crop to create a single panorama. The panoramas used in these visualisations have a field of view of 90°.

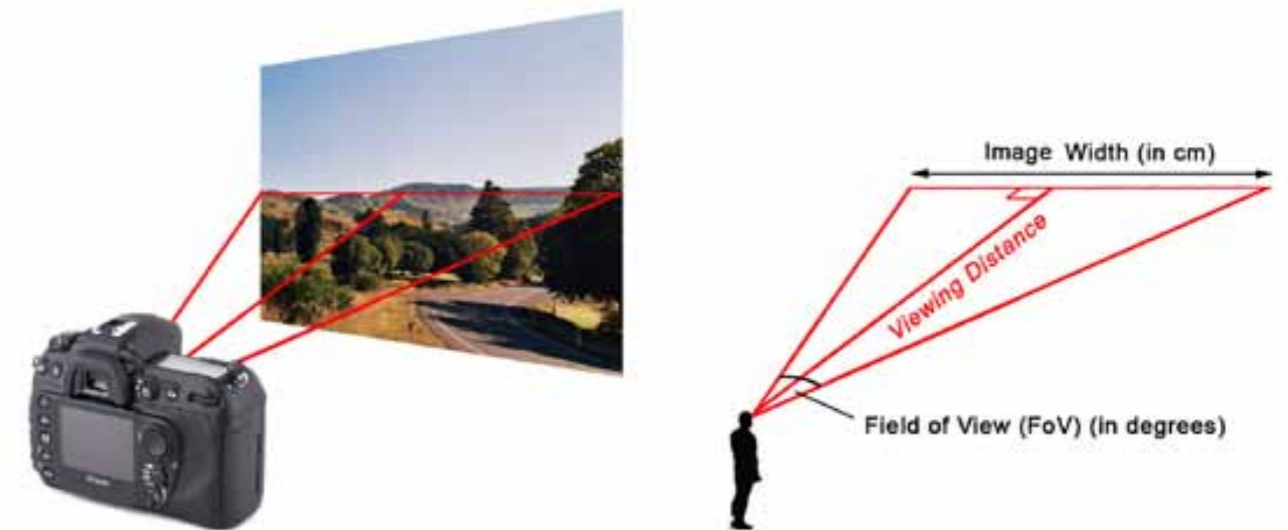


## 3D MODELLING

Virtual camera views were then created in 3D modelling software, and 3D terrain data and architectural modelling were imported. These views were then registered over the corresponding photographic panorama, using identifiable features in the landscape and the characteristics of the camera to match the two together. The visualisations were then assembled using graphic design software.

## IMAGE READING DISTANCES

These visualisations have a field of view of 90° and so should be viewed from a distance of 20 cm when printed at A3. This will ensure that each simulation is viewed as if standing on-site at the actual camera location, and is in accordance with Section 7.11 of the NZILA BPG. 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

