# Landscape Memorandum

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Attention:		Des	Corrie-Johnston						
Company:		C J Industries Ltd							
Date:		30 <sup>th</sup> April 2024							
From:		Liz Gavin Senior Principal Landscape Planner							
Message Ref:		Fast Track List Application							

# Summary of landscape and visual amenity effects

The following provides an assessment of landscape and visual effects of the CJ industries Peach Island Road gravel extraction application. The land affected by the application relates to the alluvial plains located between Motueka River West Bank Road (**MRWB Road**) and the Motueka River<sup>1</sup>. Activities include gravel extraction, temporary stockpiling of extracted gravel (prior to its transportation to CJ Industries' separate processing site); and the reinstation of site levels through placement of clean fill following gravel extraction. The gravel is excavated in tranches no greater than 1600m<sup>2</sup>, with the land progressively revegetated to minimise effects and allow for sustainable productive landuse of the site on completion of quarrying.

The project proposes that quarrying would occur over a 15-year period. During that period there will be some changes to landscape character that will be visible from the MRWB Road as well as houses located in the visual catchment adjacent to this. These affected views are mostly on the western side of the valley, but also from a small number on the hillslopes above the Motueka Valley Road (east of the site), with Stage 1 being adjoining MRWB Road and closest to viewers, having a reduced level of existing mitigation in this view. The visual and landscape effect of changes to these views will be mitigated by delaying quarrying in Stage 1<sup>2</sup> and enabling time for mitigation planting located in Stage 1 area to grow and provide an appropriate level of screening from MRWB Road and neighbouring properties on the foothills

Appendix 1, Figure 1 shows the Site Plan with Landscape Mitigation. Figure 2 provides a restoration plan that increases native vegetation in part of the site, resulting in enhanced biodiversity values<sup>3</sup>. In response to feedback from submitters, a number of improvements have been made to the initial mitigation recommendations, including refining plant species in the River Terrace

<sup>&</sup>lt;sup>1</sup> See Appendix 1 context map.

<sup>&</sup>lt;sup>2</sup> Stage 1 mitigation planting needs to be an average height of 5m and achieve an 80% canopy cover before Stage 1 is quarried

<sup>&</sup>lt;sup>3</sup> Appendix 1 Figure 2: River Terrace Restoration

Restoration Plan<sup>4</sup> and the use of more pest-resistant species for landscape mitigation of the wider site<sup>5</sup>.

In terms of surrounding residential views of land that looks across or down on to the site from adjoining foothills, I conclude that with mitigation measures outlined above, the effect will be no greater than **low-moderate**. In RMA terms, this equates to a minor adverse effect.

The stockpile, located in the Stage 2 area, is proposed to be screened by an existing berm and mitigation planting from views to the east; and from mitigation planting north and south. It will sit 1m below existing ground level and will be up to 4m high. This means that 1m of stockpile will be visible above the 2m high (existing) berm from the closest distance of 180m when on MRWB Road<sup>5</sup>. I note that there are already some established trees located along the base of this berm that will provide upfront mitigation. Without added mitigation this stockpile would have a **low** (adverse) visual effect. This will be added to with interplanting within the shelterbelts to create increased screening, that over 5-7 years will reduce the visibility of the stockpile area to a **very low adverse visual effect** from MRWB Road.

On completion of quarrying activities, the rural character and amenity values currently on site associated with an agricultural land use and its simple geometric patterns will be retained. There will be an enhancement of natural character and visual amenity values associated with the restoration of the Stage 1 alluvial area as outlined in Figure 2, as well as an increase in native plants in other areas of the site interplanted into the shelterbelts, that will also contribute positively to the natural character and amenity values within the site.

Overall, the project will have a **low-moderate** (adverse) effect on visual amenity associated with the stockpile and excavation activity. As no more than 1600m<sup>2</sup> excavated area would be allowed to be open at any one time, the location of this effect will progress through the site, depending on the location of excavation activity.

There will be an overall **low-moderate** adverse effect on landscape character and amenity values considering the type of rural activity that could occur within the site and the permitted activities that can occur associated with horticultural activity (1m disturbance across the whole site); and quarrying (50m<sup>3</sup> within a one-year timeframe).

On completion of excavation activity and once restored, this effect will change to an overall **low positive effect** on landscape character and amenity values by completion of consent.

Signed

Senior Principal Landscape Planner Boffa Miskell Ltd

<sup>&</sup>lt;sup>4</sup> Appendix 1 Figure 2.

<sup>&</sup>lt;sup>5</sup> Appendix 1, Figure 1.

References Te Tangi a te Manu: Aotearoa New Zealand Landscape Assessment Guidelines', Tuia Pito Ora New Zealand Institute of Landscape Architects, July 2022

# **APPENDIX 1:**

Context Map Figure 1: Site Plan with Landscape Mitigation Figure 2: Stage 1 River Restoration





# APPENDIX 1 C J INDUSTRIES FAST TRACK APPLICATION 22ND APRIL 2024





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## LEGEND



Proposed Location of Additional Monitoring Bore

. (AREA A) ALL NATIVE SPECIES .PLANTING TO BE A MIX OF THE FOLLOWING LIST BELOW (ONLY NATIVES), PLANTED AT 1.5/2m SPACINGS FOR SHRUBS WITH RT SHRUB GRADE SOURCED LOCALLY, AND 4.5m SPACINGS FOR TREES WITH PB18 SPECIMEN TREE GRADE.



(AREA B) NO POPULUS 'CROWS NEST' -PLANTING TO BE A MIX OF THE FOLLOWING LIST BELOW MINUS POPULUS 'CROWS NEST', PLANTED AT 1.5/2m SPACINGS FOR SHRUBS WITH RT SHRUB GRADE SOURCED LOCALLY, AND 4.5m SPACINGS FOR TREES WITH PB18 SPECIMEN TREE GRADE.



(AREA C) INFILL UNDERSTOREY PLANTING

-PLANTING TO BE A MIX OF THE UNDERSTOREY SPECIES, PLANTED AT 1.5/2m SPACINGS FOR SHRUBS WITH RT SHRUB-GRADE SOURCED LOCALLY, AND 4.5m SPACINGS FOR TREES WITH PB18 SPECIMEN TREE GRADE.

TALL TREES

EUCALYPTUS GLOBOIDEA - WHITE STRINGYBARK DACRYCARPUS DACRYDIOIDES - KAHIKATEA POPULUS 'CROWS NEST' - CROWS NEST POPLAR POPULUS NIGRA - LOMBARDY POPLAR

UNDERSTOREY ALECTRYON EXCELSUS - TITOKI ARISTOTELIA SERRATA - MAKOMAKO CARPODETUS SERRATUS - PUTAPUTAWETA CARPODETUS SERVATUS - PUTAPOTAWETA COPROSMA ROBUSTA - KARAMU CORDYLINE AUSTRALIS - CABBAGE TREE DODONAEA VISCOSA - AKEAKE KUNZEA ERICOIDES - KANUKA LEPTOSPERMUM SCOPARIUM - MANUKA MELICYTUS RAMIFLORUS - MAHOE

# MYRSINE AUSTRALIS - MAPOU MYOPORUM LAETUM - NGAIO MYOPORUM LAFLUM - NGAIO PHORNIUM TENAX - SWAMP FLAX PITTOSPORUM EUGENIOIDES - LEMONWOOD PITTOSPORUM TENUIFOLIUM - KOHUHU PLAGIANTHUS REGIUS - RIBBONWOOD PSEUDOPANAX ARBOREUS - FIVE FINGER SOPHORA MIRCROPHYLLA - KOWHAI

### MAINTENANCE & ESTABLISHMENT PLAN

#### TIMING

1. Planting to be undertaken between the months of April and October to take advantage of optimum rainfall and climatic conditions best suited to plant growth.

PREPARATION 2. The contractor shall carry out the works to protect the existing subsoil structures and prevent excessive soil structure damage. Ensure at least 50mm of topsoil present.

3. Prepare planting area by spraying planting zone areas as required to reduce initial weed and grass growth

4. Plants should be of the species on the drawings. Plants shall be vigorous, well established, hardened off, of good form consistent with the specie or varieties, not soft or forced, free from disease and insect pests, with large healthy root systems and no evidence of being restricted or damaged. The trees shall have a single leading shoot.

### SETOUT

5. The planting hole shall be twice the root ball width and twice the root ball depth. Planting holes , except for wetland plants, shall be loosened for at least 75mm each side of the under plant prior to planting.

6. Each plant shall be watered thoroughly after planting, ensuring that the moisture has penetrated to the full depth of the root ball (initial watering is also important to settle the soil around the roots).

### PEST MANAGEMEN

7. To minimise rabbit damage to plants apply telgrow foliage spray after planting and as required after heavy rain and install cardboard, biodegradable plant guards around plants.

8. Plant pests to be controlled by continual weeding and regularly monitored for a period of three years or until plant specimens become fully sufficiently established.

9. All planting next to stock paddocks to be fenced off.

#### MAINTENANCE

9. General maintenance shall include watering, weed removal, plant trimming, cultivation, insect and disease control, checking stakes and ties, pruning and other accepted horticultural operations to ensure normal and healthy plant establishment and growth.

10. Any plants that fail are to be replaced and planted during the next available planting season as defined above.

### SHELTERBELT FORMATION TO BE USED







# SITE PLAN WITH LANDSCAPE MITIGATION FIGURE 1

Note: Contours shown are existing. Earthworks will be reinstated to be consistent with these contours

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## LEGEND

----- SITE BOUNDARY

----- PROPOSED FENCING FOR LIVESTOCK

— 20m SETBACK FROM STOPBANK



ADJOINING MARGINAL CONSERVATION STRIP

STAGE 1 EXTRACTION SITE BOUNDARY

MITIGATION PLANTING -NEW TREES TO BE PLANTED MINIMUM OF 5m FROM BOTTOM OF STOPBANK

## (AREA A) ALL NATIVE SPECIES

NTING TO BE A MIX OF THE FOLLOWING LIST BELOW (ONLY NATIVES), PLANTED AT 1.5/2m SPACINGS FOR SHRUBS H RT SHRUB GRADE SOURCED LOCALLY, AND 4.5m SPACINGS FOR TREES WITH PB18 SPECIMEN TREE GRADE.

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### STAGE 1 RIVER TERRACE RESTORATION: TOTAL AREA = 1.35ha

NATIVE GRASSES / SEDGES -PLANTING TO BE A MIX OF THE FOLLOWING LIST BELOW, PLANTED AT 1.5/2m SPACINGS FOR SHRUBS WITH RT GRADE SOURCED LOCALLY.

COPROSMA PROPINQUA - MINGIMINGI CORTADERIA RICHARDII - SOUTH ISLAND TOETOE PHORMIUM TENAX - NZ FLAX



NATIVE TREES -PLANTING TO BE A MIX OF THE FOLLOWING LIST BELOW, PLANTED AT 4.5m SPACINGS FOR TREES WITH PB18 SPECIMEN TREE GRADE. CORDYLINE AUSTRALIS - CABBAGE TREE DACRYCARPUS DACRYDIOIDES - KAHIKATEA HOHERIA ANGUSTIFOLIA - NARROW-LEAVED LACEBARK PENNANTIA CORYMBOSA - KAIKOMAKO PLAGIANTHUS REGIUS - LOWLAND RIBBONWOOD

STAGE 1 PASTURE LAND: TOTAL AREA = 1.66ha TO BE FENCED AND KEPT CLEAR OF NEW PLAN





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