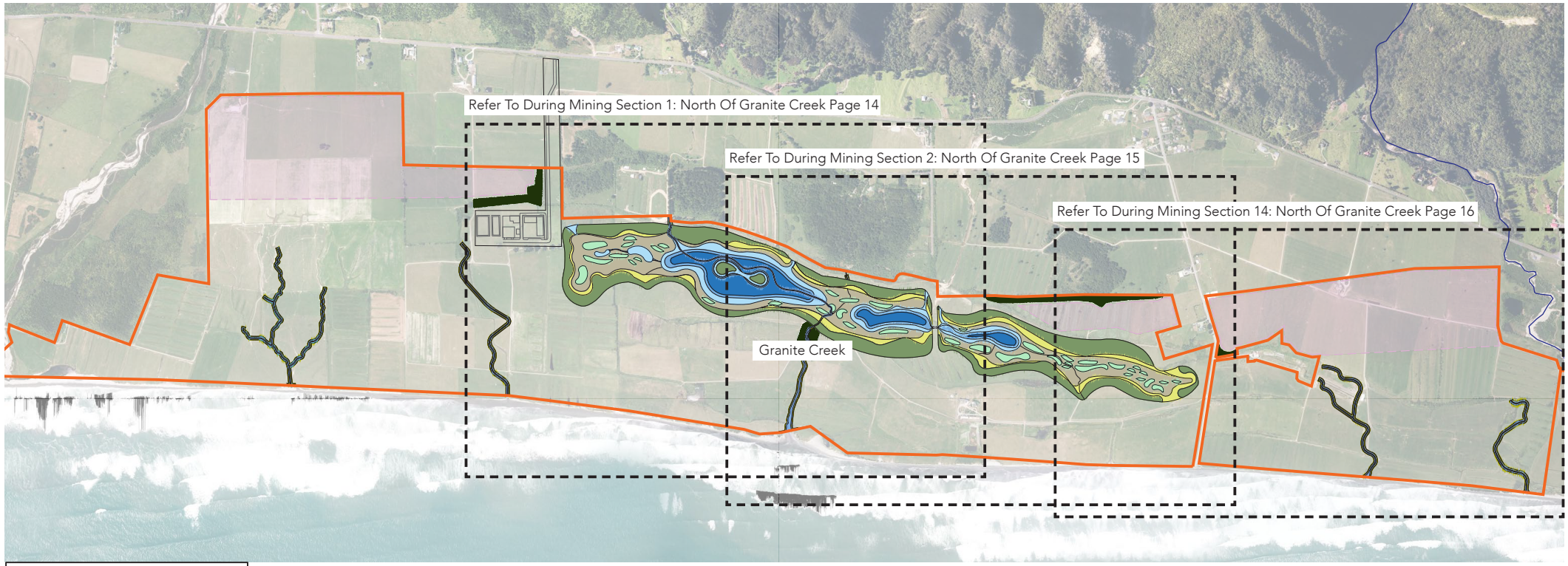
LANDSCAPE REHABILITATION - DURING MINING

9.0 LANDSCAPE REHABILITATION PLAN - DURING MINING KEY PLAN



KEY

- Shallow Marsh - Average Depth 0.4m
- Mid-depth Water - Average Depth 1m
- Deep Open Water - Average Depth 2m
- Flaxland and Dry Edge Vegetation
- Carex Rushlands
- Raupo Wetland
- Raised Islands
- Riparian Planting
- Existing Planting to be Retained
- Application Area
- Earthworks (Beyond mining disturbance area for rehabilitation and bund construction)

1:15,000

0 100 500 1000 1500M

N

Note:
The aim of this During Mining Key Plan is to set out the different landscape areas to be rehabilitated into a large wetland and smaller riparian margins during mining. Each of the black boxes refers to an individual sheet (page) which follows. These pages correspond with the Mining Sections (stages) outlined in the Project Description accompanying the application. The end goal is to have a well functioning large connected wetland of approximately 53.1 hectares in size.

The design and layout of the well functioning large connected wetland has been informed by Landscape Architects, Ecologists and Hydrologists working together. Refer to the **Rehabilitation Management Plan** for further detail.

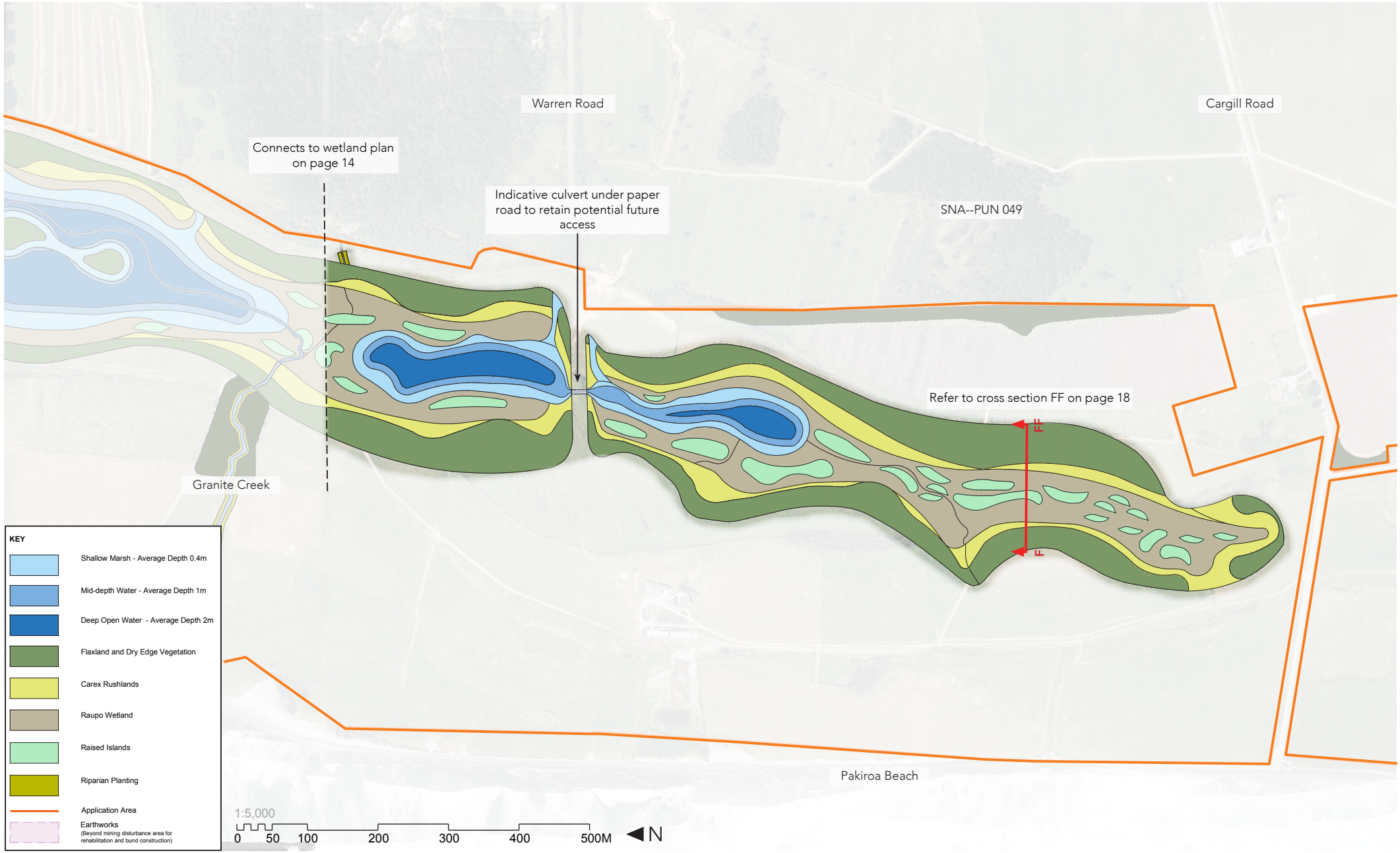
9.0	Landscape Mitigation	During Mining Key Plan	Project Number: 2410	Revision: H	Scale: 1:10,000@A3 1:5000@A1	Design: GHLA Drawn: EM Approved: NC	Date: 19/5/2026

10.0 LANDSCAPE REHABILITATION PLAN - DURING MINING SECTION 1: NORTH OF GRANITE CREEK



10.0	Landscape Mitigation	During Mining Section 1: North Of Granite Creek	Project Number: 2410	Revision: H	Scale: 1:5000 @ A3	Design: GHLA Drawn: EM Approved: NC	Date: 19/5/2026

11.0 LANDSCAPE REHABILITATION PLAN - DURING MINING SECTION 2: SOUTH OF GRANITE CREEK



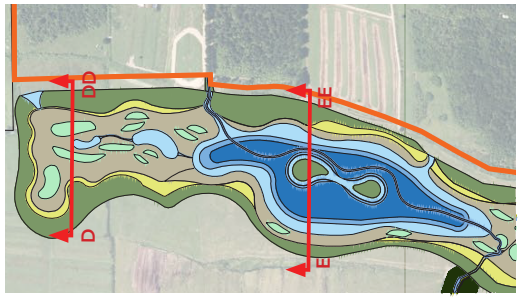
11.0	Landscape Mitigation	During Mining Section 2: South of Granite Creek	Project Number: 2410	Revision: H	Scale: 1:5000 @ A3	Design: GHLA Drawn: EM Approved: NC	Date: 19/5/2026

12.0 LANDSCAPE REHABILITATION PLAN - DURING MINING SECTION 3: SOUTH OF CARGILL ROAD



12.0	Landscape Mitigation	During Mining Section 3: South Of Granite Creek	Project Number: 2410	Revision: H	Scale: 1:5000 @ A3	Design: GHLA Drawn: EM Approved: NC	Date: 19/5/2026

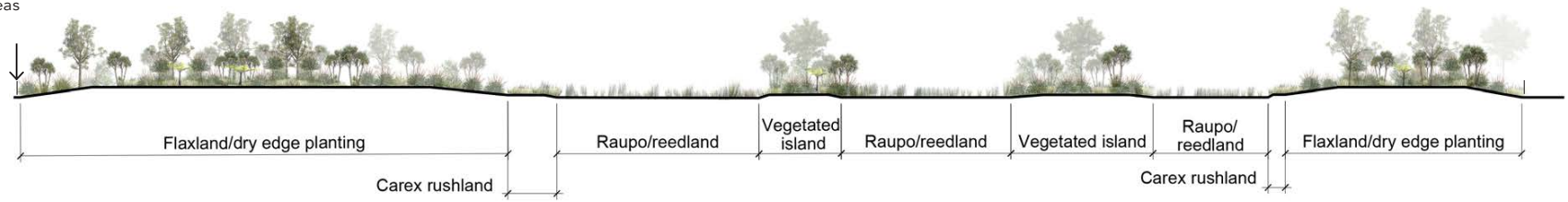
13.0 LANDSCAPE REHABILITATION - DURING MINING SECTION 1: NORTH OF GRANITE CREEK



Key Plan - During Mining Section 1 From Page 14

Notes:
The design and layout of the well functioning large connected wetland has been informed by Landscape Architects, Ecologists and Hydrologists working together. Refer to the **Rehabilitation Management Plan** for further detail.

New stock proof fencing on the outside of all the planting areas

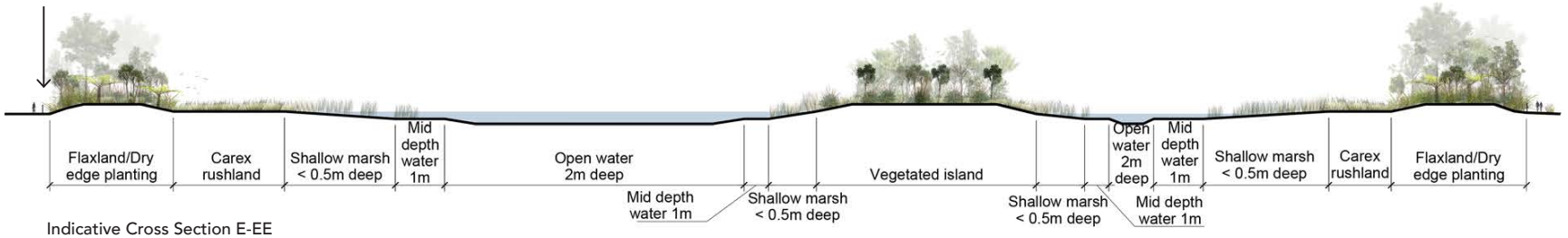


Indicative Cross Section D-DD

1:1,000

0 10 20 30 40 50 60 70 80 90 100M

New stock proof fencing on the outside of all the planting areas



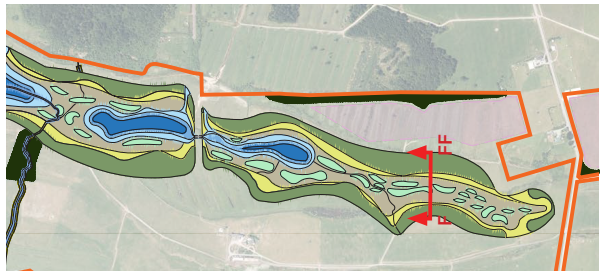
Indicative Cross Section E-EE

1:1,000

0 10 20 30 40 50 60 70 80 90 100M

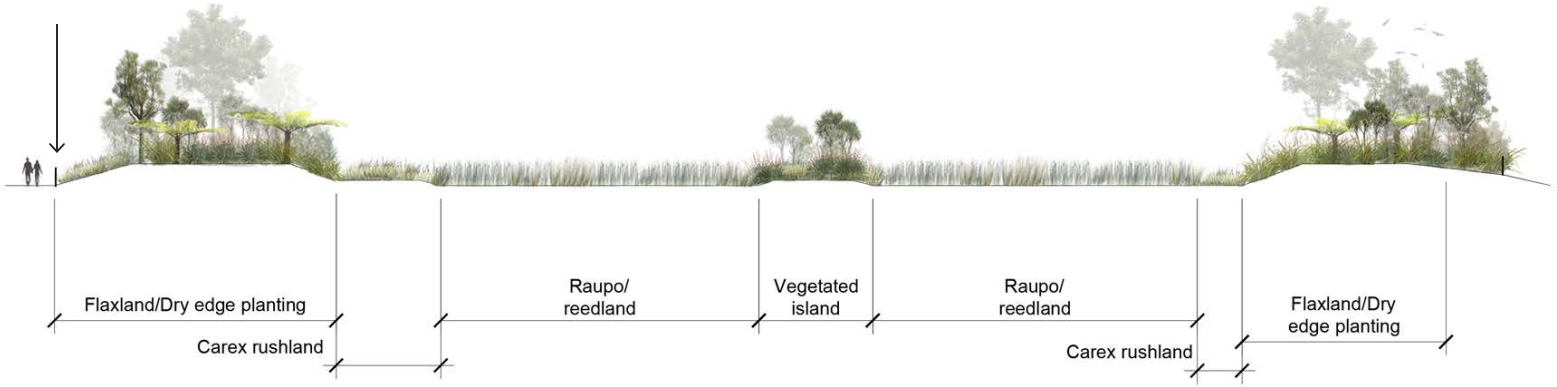
13.0	Landscape Mitigation	During Mining Section : North of Granite Creek	Project Number: 2410	Revision: H	Scale: AS SHOWN	Design: GHLA Drawn: EM Approved: NC	Date: 19/5/2026

14.0 LANDSCAPE REHABILITATION - DURING MINING SECTION 2: SOUTH OF GRANITE CREEK



Key Plan - During Mining Section 2 From Page 15

New stock proof fencing on the outside of all the planting areas

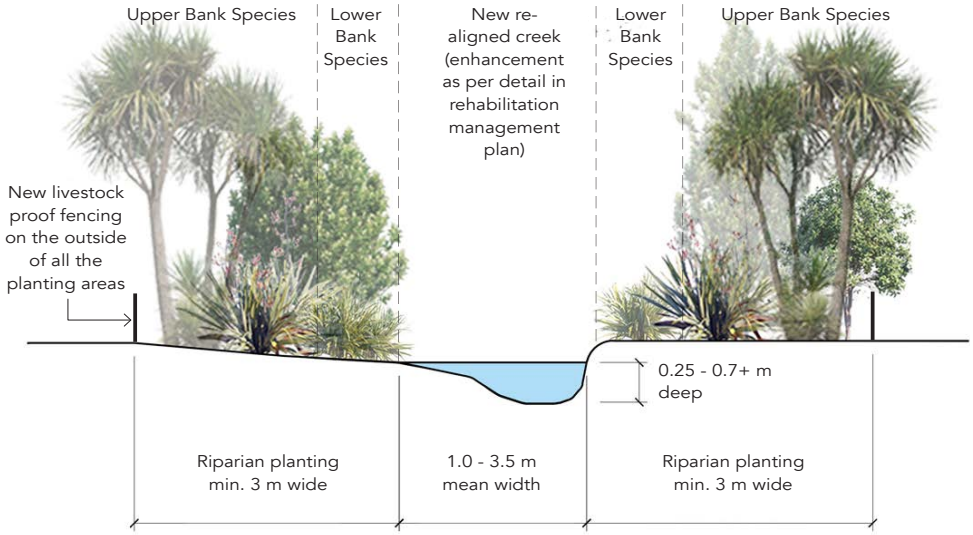


Indicative Cross Section F - FF

1:500

0 5 10 20 30 40 50M

15.0 LANDSCAPE REHABILITATION - DURING MINING SECTION 2: REALIGNED CREEKS



Indicative Pool Habitat

Realigned Creeks - Typical Cross Sections
This page includes three typical cross sections to illustrate how the five realigned creeks (Northern, Central, Clarke, Wasabi and Southern) will work once mining has gone past. Each of these creeks will have riparian planting a minimum of 3.0 metres width on either side. There will be no loss of extent of the creeks once mining is complete. Design details will be further developed through the **Rehabilitation Management Plan.**

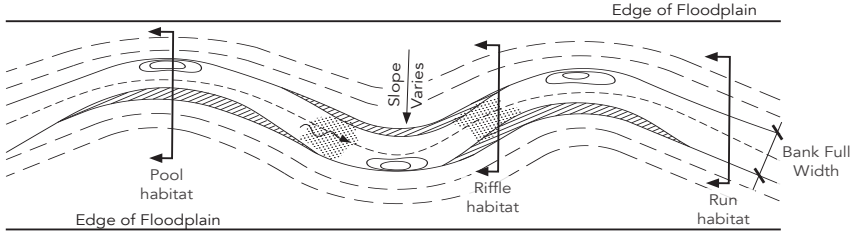
Of note, Granite Creek and Little Granite Creek will not be disturbed by mining activity. Granite Creek will be enhanced with riparian planting a minimum of 5.0 metres width on either side.

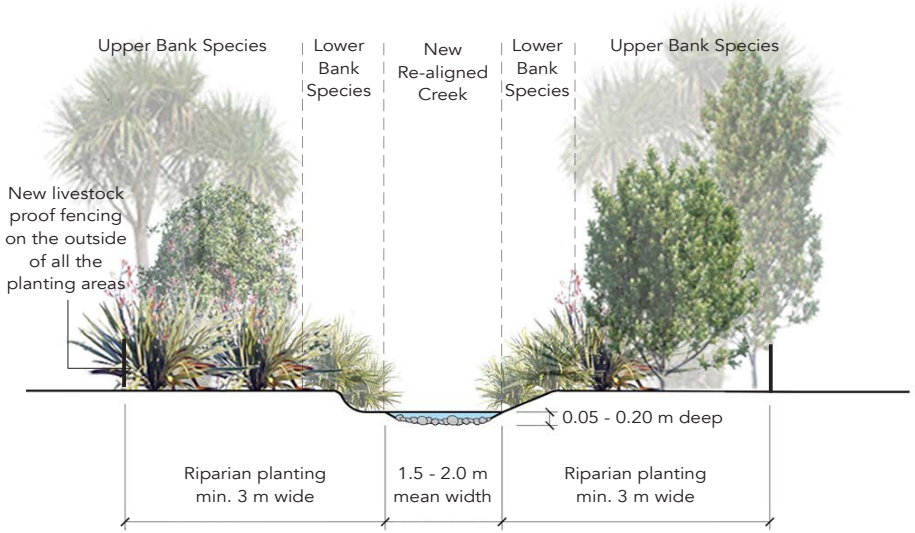
Habitat sequences, widths and depths
The aim is to have: run -> riffle -> pool habitat sequences. There will be meandering channels with variable widths and depths as this will encourage the formation of different habitats. Floodplains will also be incorporated. There will typically be deeper pools on bends, moderately deep runs on straighter sections, and shallow riffles that can flow into pools or between runs. Habitat depths will depend on the future hydrology and catchment size.

Pool habitat
- Located on the meander bends of a channel
- Typically has fine sediment or small gravel
- Naturally grades from shallow on the inside of the bends to deeper on the outside
- Wider floodplains may occur on the inside of bends adjacent to pools

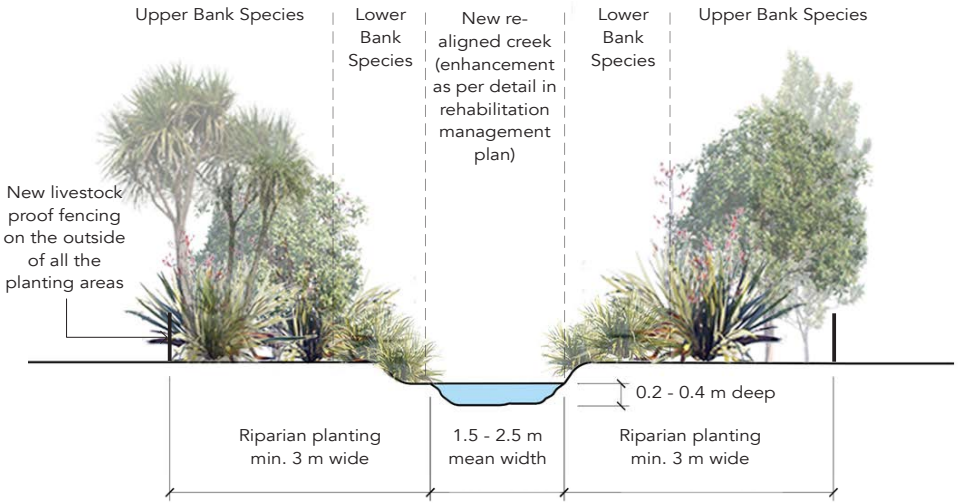
Riffle habitat
- Shallowest habitat
- Generally less common in lowland streams
- Bed has medium to large gravel plus small/large cobble plus the occasional boulder
- Typically narrower than pools and runs (but not always)

Run habitat
- Located on straighter sections of a channel
- Typically dominated by small to large gravel
- Can be more 'U' shaped but with variable depths if possible
- Typically narrower than pools





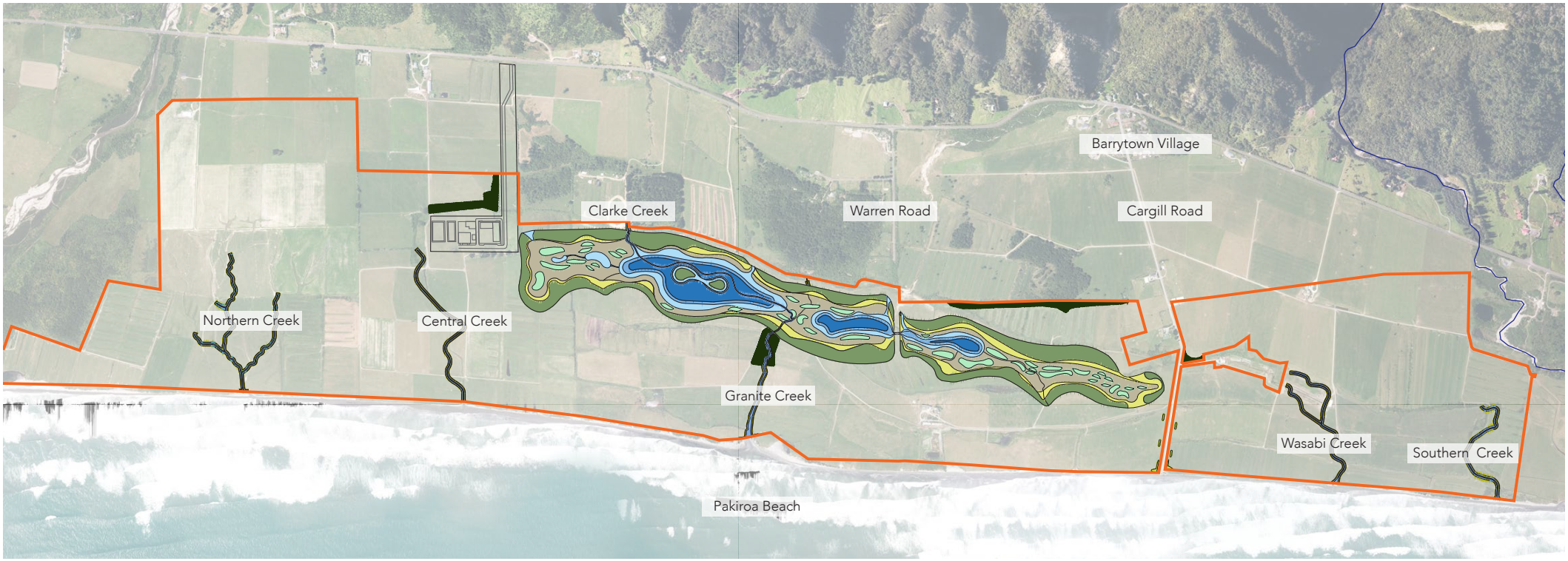
Indicative Riffle Habitat



Indicative Run Habitat

LANDSCAPE REHABILITATION - POST MINING

16.0 LANDSCAPE REHABILITATION PLAN - POST MINING FINAL OUTCOME: SECTIONS 1, 2 & 3 COMBINED



KEY

- Shallow Marsh - Average Depth 0.4m — Total Area: 5.3ha
- Mid-depth Water - Average Depth 1m — Total Area: 2.8ha
- Deep Open Water - Average Depth 2m — Total Area: 4.8ha
- Flaxland and Dry Edge Vegetation — Total Area: 16.8ha
- Carex Rushlands — Total Area: 5.9ha
- Raupo Wetland — Total Area: 14.3ha
- Raised Islands — Total Area: 3.2ha
- Riparian Planting — 3-5m in width either side of channel
- Existing Planting to be Retained
- Application Area

TOTAL WETLAND AREA: 53.1ha Approximately

Note:
At the completion of mining activity the application area will have:

- The existing planting areas that were retained
- Clusters of new planting along Cargill Road
- New riparian planting along creeks (five primary ones which have been realigned, plus Granite Creek)
- An extensive well functioning connected new wetland of approximately 53.1 hectares.

Refer to the **Rehabilitation Management Plan** for further details.

1:15,000

0 100 500 1000 1500M

N

16.0	Landscape Mitigation	During Mining Final Outcome: Sections 1, 2 & 3 Combined	Project Number: 2410	Revision: H	**Scale:** 1:15,000@ A3	Design: GHLA Drawn: EM	Approved: NC	Date: 19/5/2026

17.0 LANDSCAPE SPECIES AND INDICATIVE GROWTH RATES

Below are the plant species that will be used for mitigation and rehabilitation planting.

- An approximate growth rate of 0.40-0.60m per year has been determined in consultation with the project Landscape Architect [Mrs Crawford] and project Ecologist [Mr Bramley]. The combined experience of these two individuals notes that these plants will sit at a lower growth rate for the first two years following planting, and will have an increase in growth rates in following years. It is also noted that larger individual specimens have a longer 'sitting' period than smaller ones.
- Growth rates can be influenced by seasonal fluctuations, maintenance, moisture/precipitation, exposure, ground conditions, and type of plant species.
- Note: The plant species proposed to be used are shown in Schedule of Species below, although other similar species may be used in addition to those listed (e.g., if a particular species is unavailable to source or if for any reason a species is deemed unsuitable at a later stage).

INDICATIVE PLANT GROWTH

Year of growth	Native Plant Height
1	Seed Collection
2	0.4 - 0.6m at planting
3	0.8 - 1.2m
4	1.2 - 1.8m
5	1.6 - 2.4m
6	2.0 - 3.0m
7	2.4 - 3.6m
8	2.8 - 4.2m
9	3.2 - 4.8m

SCIENTIFIC NAME	COMMON NAME	SCREENING	BUND	RIPARIAN	WETLAND	ULTIMATE SIZE (m) w x h
Aristotelia serrata	makomako, wineberry		x	x		3 x 6
Carex geminata	rautahi			x	x	1 x 1
Carex secta	purei			x	x	1.5 x 1.5
Carex virgata	pukio	x	x	x	x	0.5 x 1
Carmichaelia australis	broom	x	x	x	x	2 x 3
Coprosma propinqua	mikimiki	x	x	x	x	2.5 x 5
Coprosma robusta	karamu	x	x	x	x	2.5 x 5
Cordyline australis	tī kōuka, cabbage tree	x		x	x	2 x 6
Dacrycarpus dacrydioides	kahikatea, white pine			x	x	5 x 50
Juncus edgariae	edgar's rush			x	x	1 x 1
Metrosideros robusta	northern rata		x	x	x	3 x 15
Melicytus ramiflorus	māhoe, whiteywood		x	x	x	2.5 x 8
Phormium tenax	harakeke, korari, New Zealand flax	x	x	x		2 x 3
Pittosporum eugenioides	tarata, lemonwood		x	x		3 x 6
Pittosporum tenuifolium	kohuhu		x	x	x	3 x 6
Rhopalostylis sapida	nīkau	x	x			3 x 15
Solanum aviculare var. aviculare	Poroporo	x	x			2 x 3
Typha orientalis	raupō, bull rush				x	1.5 x 2.3

18.0 PLANTING PALETTE

TREES



Aristotelia serrata
Makomako / Wineberry



Carmichaelia australis
Broom



Cordyline australis
Cabbage tree



Dacrycarpus dacrydioides
Kahikatea / White Pine



Metrosideros robusta
Northern Rata



Melicytus ramiflorus
Mahoe / Whiteywood

NATIVE SHRUBS



Pittosporum eugenioides
Tarata / Lemonwood



Pittosporum tenuifolium
Kohuhu / Black Matipo



Rhopalostylis sapida
Nīkau



Carex geminata
Rautahi, Cutty grass



Carex secta
Makura Sedge



Carex virgata
Pukio / Swamp Sedge



Juncus edgariae
Wiwi



Coprosma propinqua
Mingimingi



Coprosma robusta
Karamu



Phormium tenax
Harakeke / NZ Flax



Solanum aviculare var. aviculare
Poroporo



Typha orientalis
Raupo /Bull rush