Te Hiku

Te Arai Lake 6 (Aupouri), NRC Lake No. 45.



Te Arai Lake 6. A dune lake with scrub margins, note the extensive fringe of emergent kuta (Daniel Clements).

Summary	Lake Te Arai 6
Surveyed:	2019.
Overall ranking:	Moderate : water heavily stained with the invasive <i>Utricularia gibba</i> the only submerged species present amongst emergent kuta.
Threats:	Well buffered by a scrub catchment, limited risk of nutrient enrichment. Water levels appear to have declined. Low risk of introduction and establishment of invasive pests.
Management recommendations:	No monitoring recommended, apart from monitoring of the Nationally Endangered <i>Mazus novae-zeelandiae</i> ssp. <i>impolitus</i> .

Description

This dune lake (2510021E 6722874N) is recorded as a 0.95 ha area in the NRC database, but the lake occupies c. 1.2 ha, with contiguous kuta dominated marginal fringe. The lake had a maximum depth of 2.6 m. The catchment is mostly scrub. There are no inlets or outlets. Access was gained through forestry roads and scrub covered tracks.

Wetland vegetation

The lake was predominately vegetated with emergent kuta (*Eleocharis sphacelata*), with raupo (*Typha orientalis*) and *Machaerina articulata* (0 to 1.5 m deep). Additional tall emergent species included *E. acuta* and the sprawling *Persicaria decipiens*.

Submerged vegetation

Lake water was heavily stained water with only 0.2 m underwater visibility. No submerged vegetation was found outside of the emergent zone, with sparse *Utricularia gibba* the only submerged species found amongst kuta.

LakeSPI

No LakeSPI score was generated.

Water birds No birds were seen.

Fish No fish were seen.

Aquatic invertebrates

No invertebrates were seen.

Endangered species

Mazus novae-zeelandiae ssp. *impolitus* was located in scrub to the east of Lake Te Arai 6. It was assessed as Nationally Endangered (de Lange et al. 2018), with a total global area of occupancy \leq 10 ha (0.1 km²) and a predicted decline of 10–50%.



Mazus novae-zeelandiae ssp. impolitus, located in scrub to the east of Lake Te Arai 6.

Lake Ecological Value

The condition of Te Arai Lake 6 was scored as 7 (Moderate) in 2019, based on good buffering, but absence of submerged vegetation. The nationally rare *Mazus novae-zeelandiae* ssp. *impolitus* contributed to the derivation of this score.

Threats

Few invasive threats were noted due to difficult lake access, but water levels have receded historically.

Management recommendations

No monitoring recommended, apart from monitoring of the Nationally Endangered *Mazus novaezeelandiae* ssp. *impolitus*.