

### Lake Rotoehu

Site Number: SNA117
Ecological District: Rotorua Lakes

**Source of Information:** None - based on aerial photographs

Digital Scale:1:2,000Data Source:RDAM 2006Regional Council:Bay of Plenty

**1998 Site Number:** Not identified as a site in Shaw and Beadel (1998)

Current Tenure: Unprotected Site Area: 800.3 ha Altitude Range: 300-330 m Lowland

Grid Reference: NZTM E1909544, N5785838

VEGETATION		LANDFORM	EXTENT
CODE	TYPE	LANDFORM	EATENI
1	Open water.	Open water	800.3 ha

### **Indigenous Flora:**

Stuckenia pectinata ('At Risk - Naturally Uncommon' in de Lange et al. 2009) was recorded in shallow water (<1 m depth) of this lake in 1988.

Emergent plant species occupied approximately 10% of the total shoreline in 1988, but were located primarily in the northern arms of the lake. Schoenoplectus tabernaemontani was the most common indigenous emergent species, although raupo and Baumea articulata were also present. Indigenous plant diversity within the littoral zone was low with Myriophyllum triphyllum and Potamogeton ochreatus the most common species.

(from Clayton et al. 1989)

#### Fauna:

Provides habitat for threatened and at risk indigenous bird species including black-billed gull ('Threatened - Nationally Endangered' in Miskelly *et al.* 2008), red-billed gull, New Zealand dabchick (both Threatened - Nationally Vulnerable'), pied stilt ('At Risk - Declining'), black shag, little black shag, and little shag (all 'At Risk - Naturally Uncommon'). Grey duck ('Threatened - Nationally Endangered') are known to occasionally utilise the lake and its margins, but this site is not important for their protection on a nation-wide basis.

## Notes on Overall Condition:

Subject to algal blooms. A high quality habitat for indigenous avifauna. Current Trophic Level Index (TLI) is 4.6, which indicates a eutrophic state.

# Change Relative to Shaw and Beadel (1998):

Unknown. Probably little change.

### Threats/Modification/ Vulnerability:

Invasive Exotic Plants: Lagarosiphon major, Elodea canadensis, and Egeria densa were common within the littoral zone of the lake in 1988 often covering large areas of lake bed up to 8 m water depth (Clayton et al. 1989). However, the current abundance of these pest plants is not known.

*Human impacts*: Threatened by nutrient input from farmland and urban development in its catchment.





Risk Assessment: Unknown

**Significance Level:** National (Appendix 4 - Table 1 - Criteria 1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13;

Table 2 - Factors N9, N12, N15).

Significance This site is of national significance as it is a relatively large lake providing

**Justification:** significant habitat to threatened and at risk bird species.

**Fieldwork Required:** No fieldwork is required to assess ecological values of this site.

Notes: None

**References:** Innes et al. (1999); Clayton et al. (1989); Environment Bay of Plenty

(2008c).



