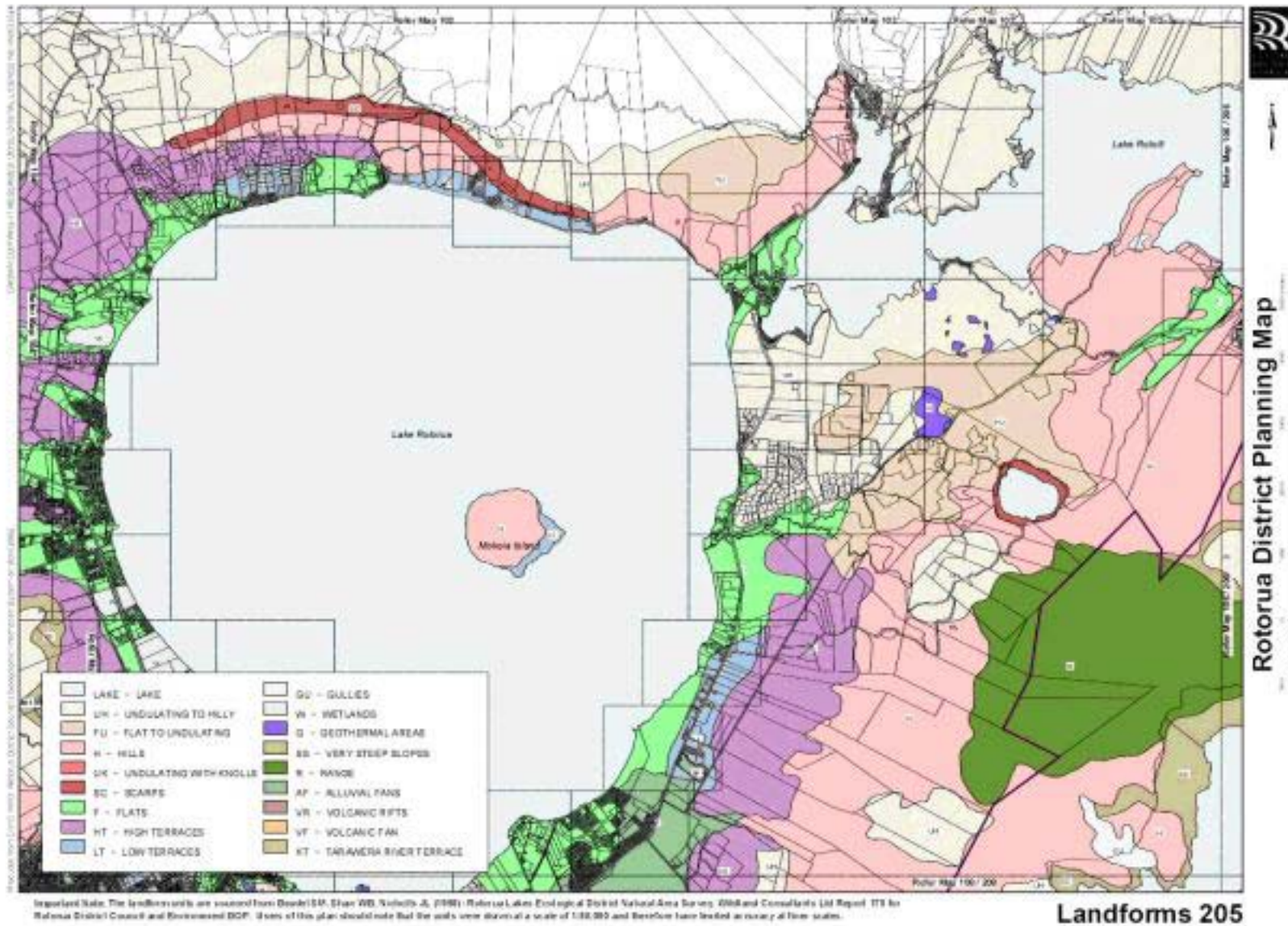
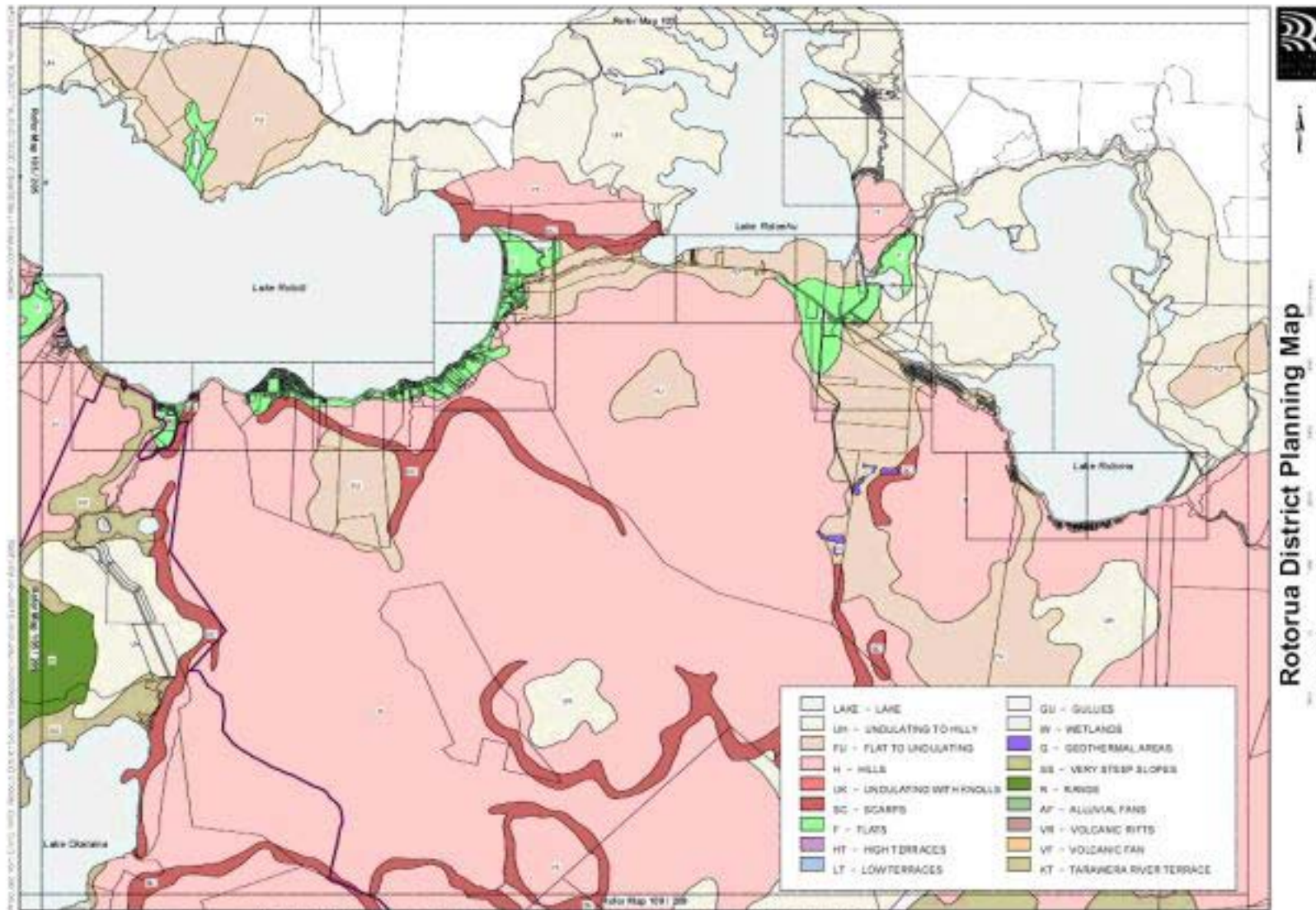


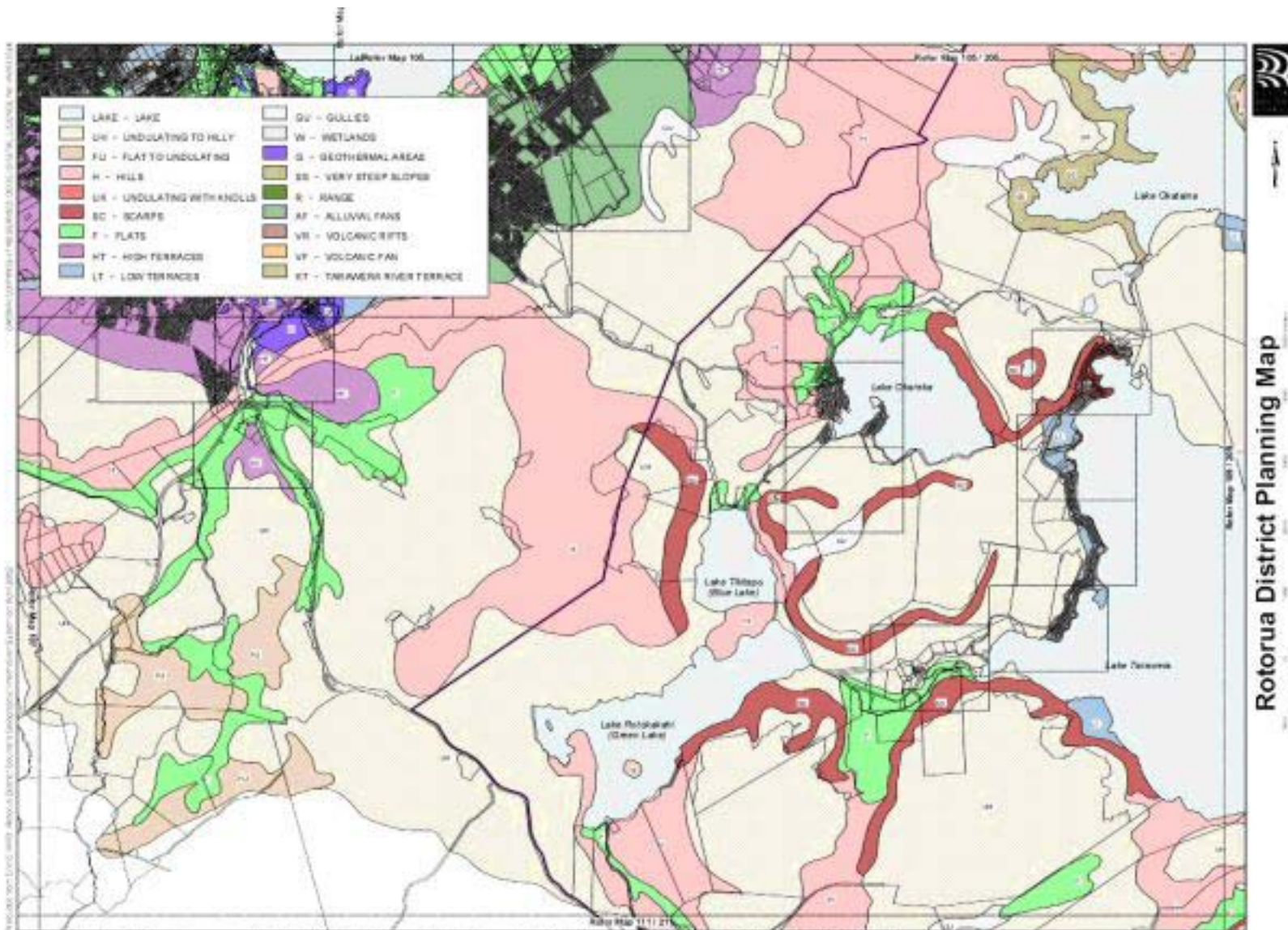
## **APPENDIX 13.0 LANDFORM UNIT MAPS AND ILLUSTRATIONS**





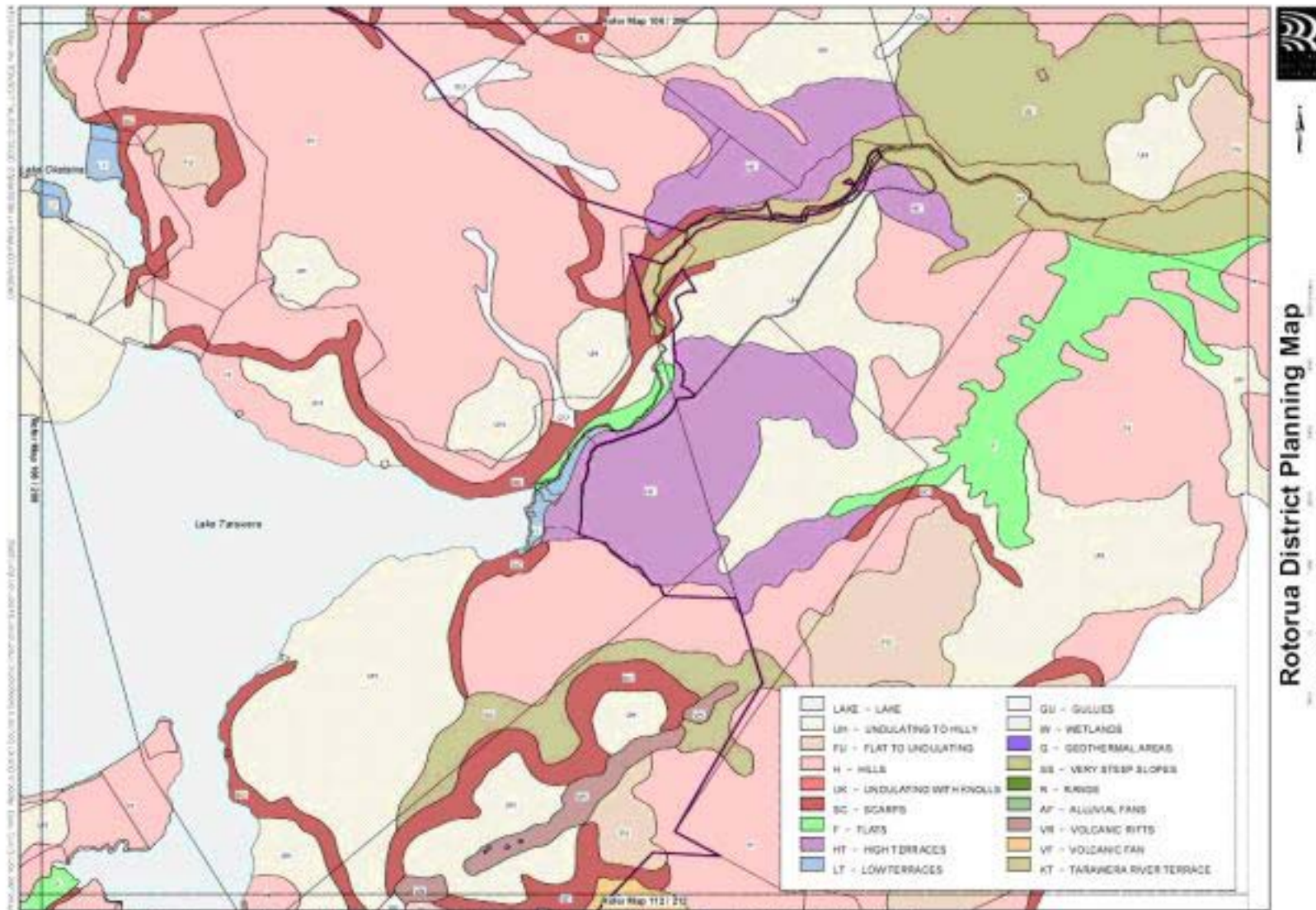
Important Note: The landform units are sourced from Doornik (EM, Stan WB, Nicholas J, (1991) Rotorua Lakes Ecological District National Area Series, WRI and Consultants Ltd Report IT3 for Rotorua District Council and Environment DOC. It was at this point should note that the soils were derived at a scale of 1:50,000 and therefore have been treated as such at this scale.

Landforms 206



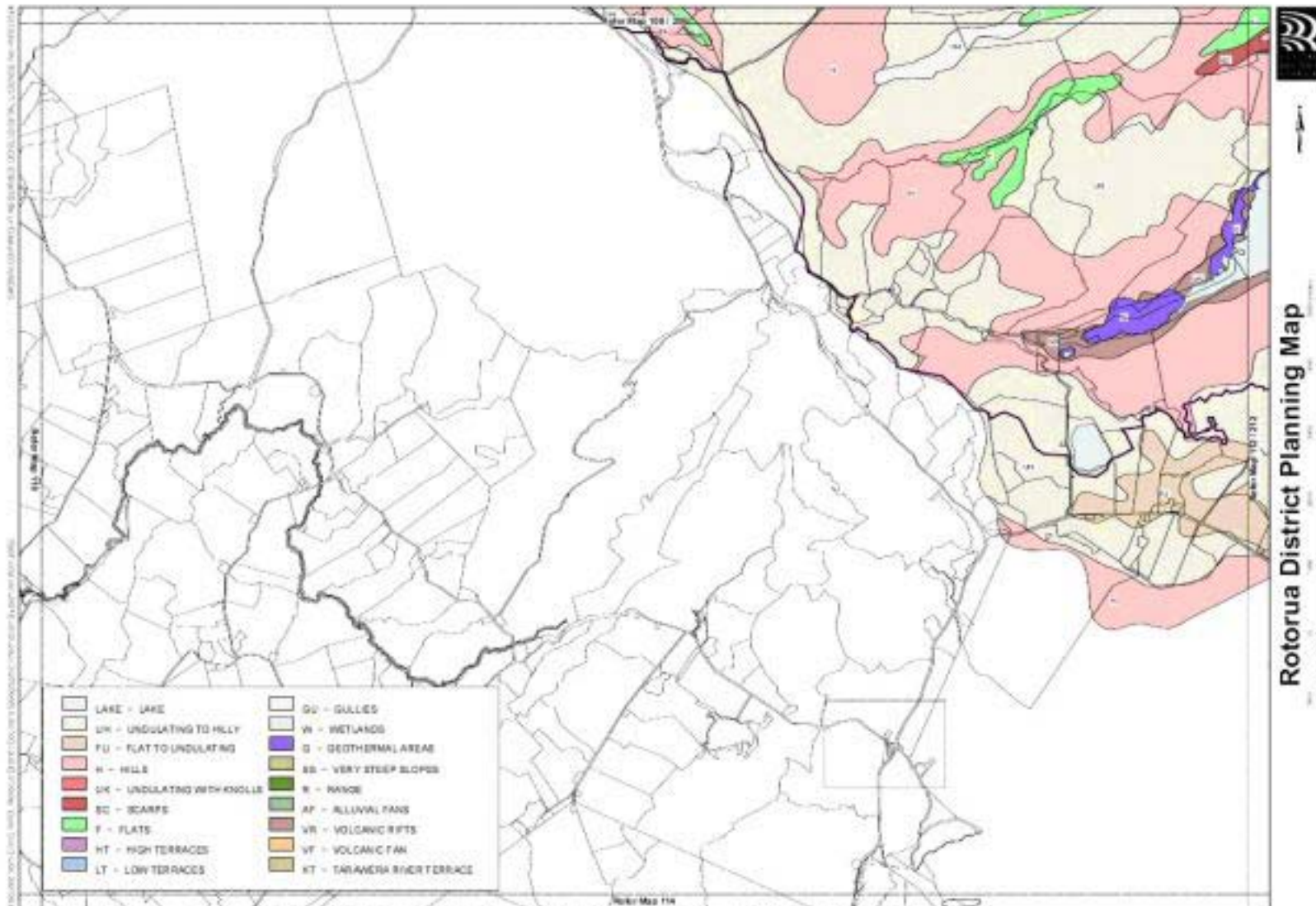
Important Note: The landform units are sourced from Beesley (1991) and Beesley & Nicholls (1991). Rotorua Lakes Ecological District Natural Area Survey (1998) and Consultants Ltd Report (1998) for Rotorua District Council and Environment DOC. Users of this plan should note that the soils were derived at a scale of 1:50,000 and therefore have been treated as such at this scale.

**Landforms 208**



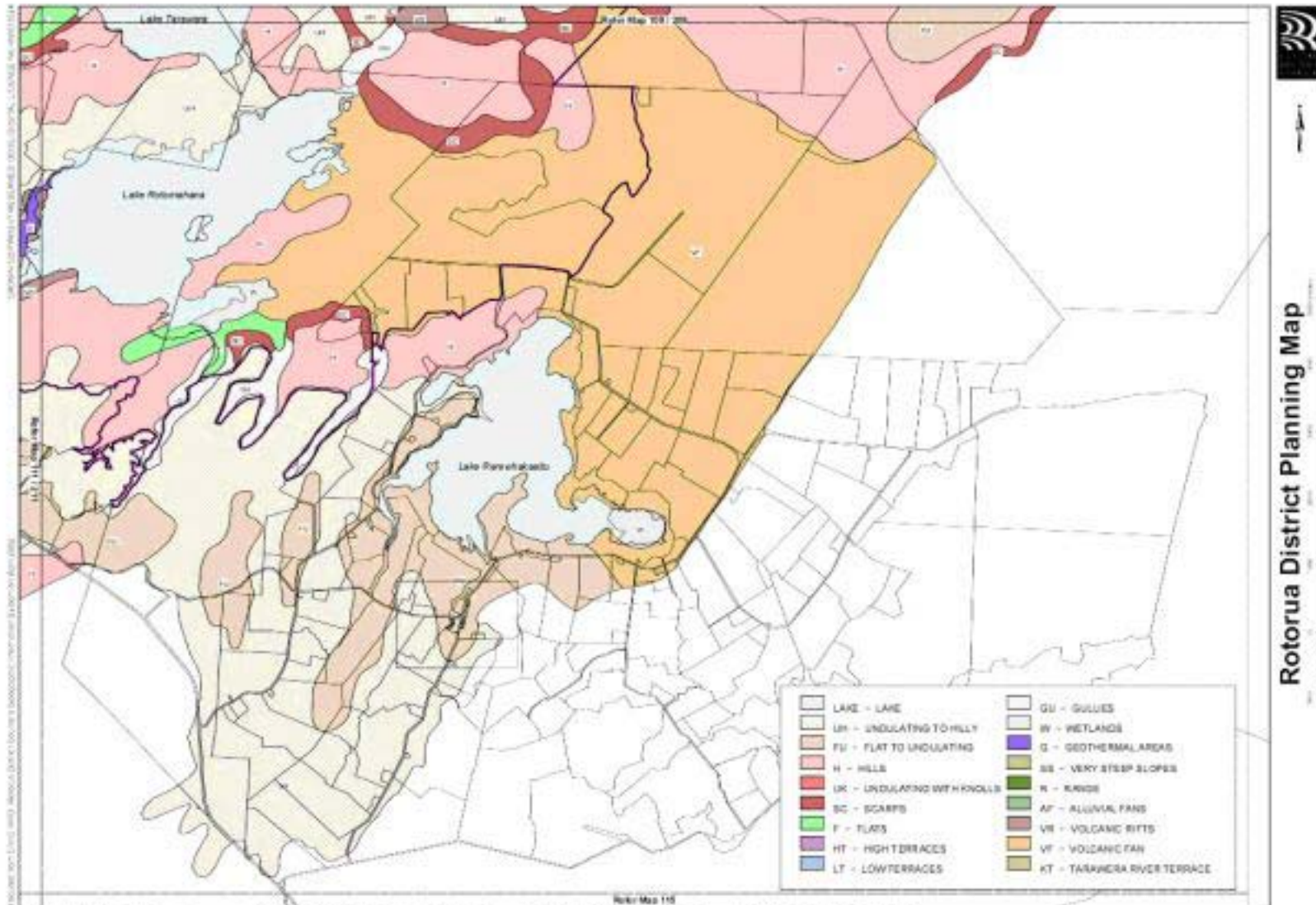
Important Note: The landform units are sourced from Beesley (EM, Stan WB, Nicholas J, (1981) Rotorua Lakes Ecological District National Area Survey, WRM and Consultants Ltd Report 173 for Rotorua District Council and Environment DOP. Users of this plan should note that the soils were derived at a scale of 1:50,000 and therefore have been treated as such at this scale.

Landforms 209



Important Note: The landform data are sourced from Deane (1981), Deane, W.D., Nicholls, J., (1981) Rotorua Lakes Ecological District National Area Survey. WRM and Consultants Ltd Report 173 for Rotorua District Council and Environment DOP. It was at this point that the data were derived at a scale of 1:50,000 and therefore have been treated as such at this scale.

Landforms 211



Important Note: The landform units are sourced from Beesley (EM, Stan WB, Nicholas J, (1981) Rotorua Lakes Ecological District Natural Area Survey, WRB and Consultants Ltd Report IT3 for Rotorua District Council and Environment DOC). Users of this plan should note that the units were derived at a scale of 1:50,000 and therefore have limited accuracy at finer scales.

Landforms 212

**LANDFORM UNITS KEY**

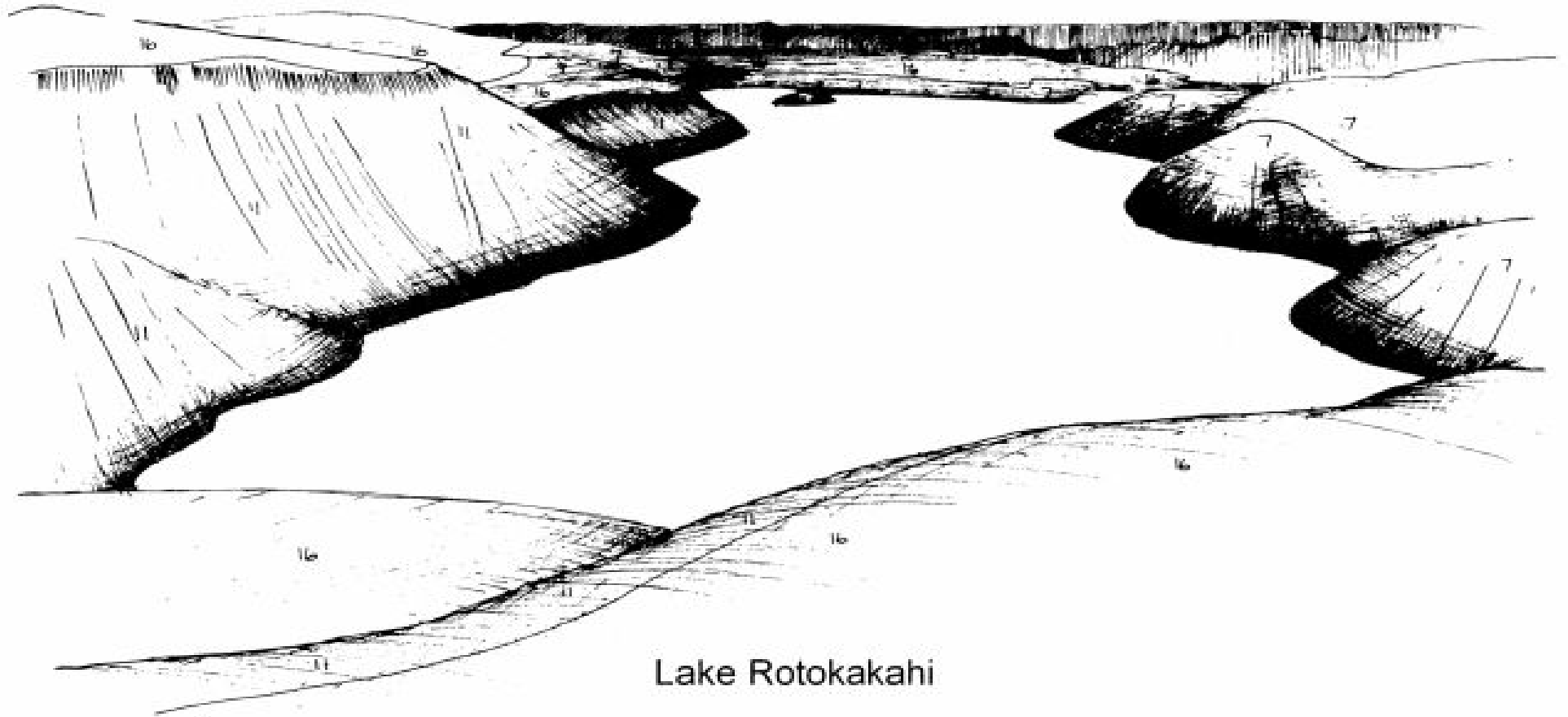
1. Alluvial Fans
2. Flats
3. Flats to Undulating
4. Geothermal Areas
5. Gullies
6. High Terraces
7. Hill(s)
8. *Lakes*
9. Low Terraces
10. Range
11. Scarps
12. Tarawera River Terrace
13. Very Steep *Slopes*
14. Volcanic Fan
15. Volcanic Rifts
16. Undulating to Hilly
17. Undulating with Knolls
18. *Wetlands*

This key relates to the *landform units* for each Policy Area. See **Section 10**, 'Definitions' in **Volume 1** of the Lakes A Zone.

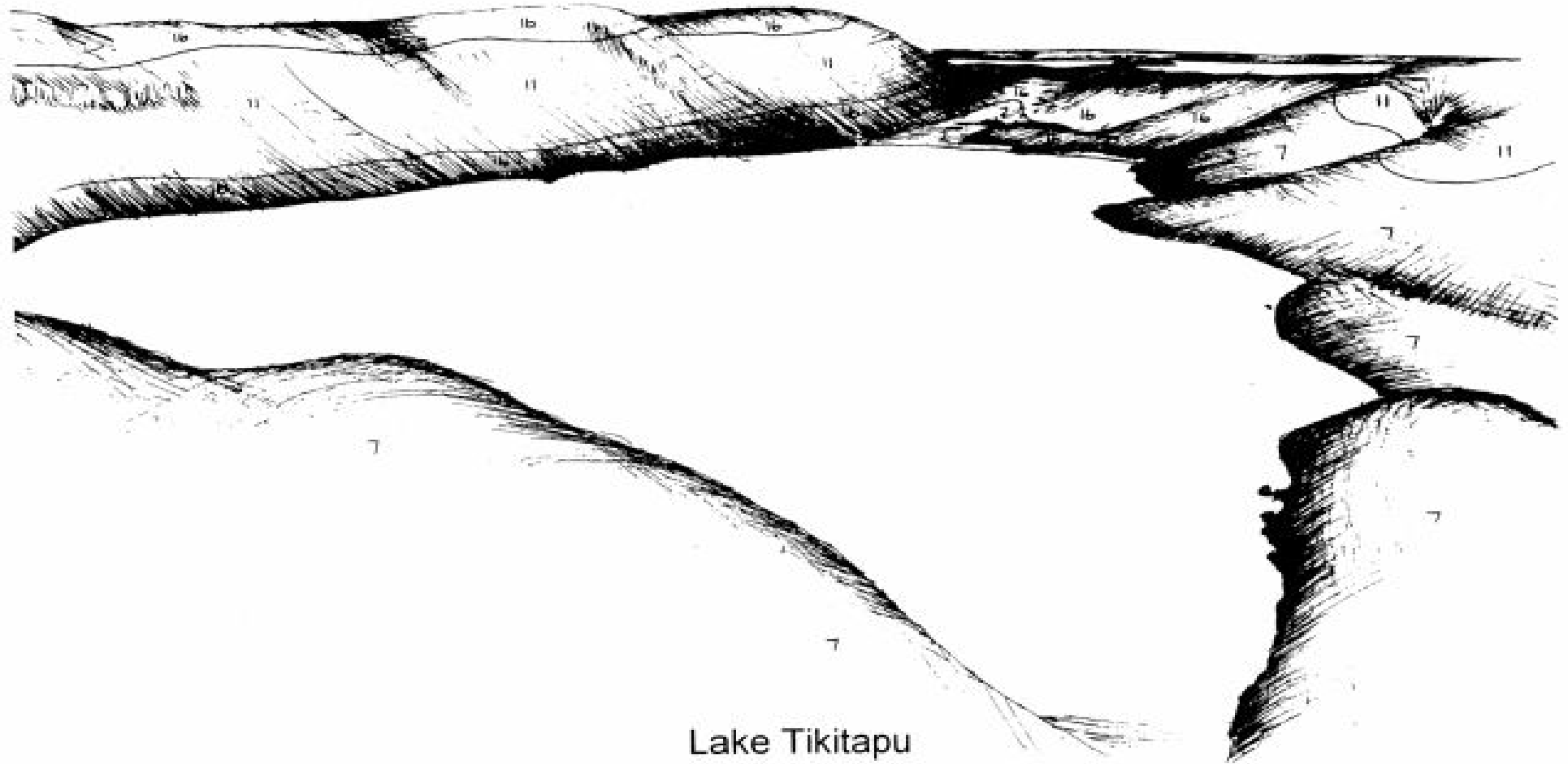




Lake Okataina



Lake Rotokakahi

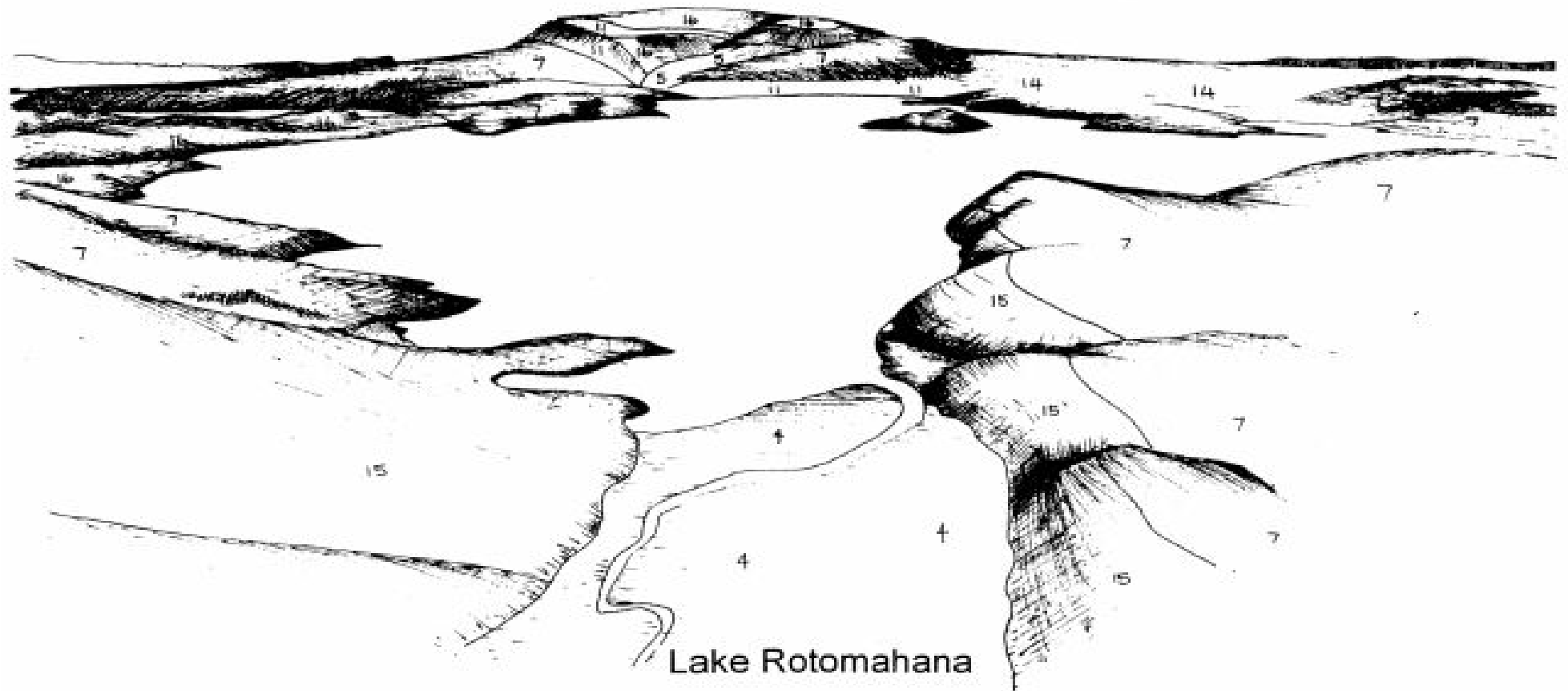




Lake Okareka



Lake Tarawera





Lake Okaro

**APPENDIX 14**

**PROTECTED NATURAL AREAS (PNAS)**



## APPENDIX 14 PROTECTED NATURAL AREAS (PNAS)

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
Crown Land Conservation Area U16/098	Pt Runs 78 and 79, Blks XI, XII, XV, XVI Tarawera S.D. S.O. 19190, M.L. 5342 A. & F. 900.00 ha Gaz. 1896 p.1076, 1899 p.1359	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Less Sensitive Rural Management Area</li> </ul>	Activities consistent with the Conservation Management Strategy for Bay of Plenty Conservancy 1997-2007 (Department of Conservation) and consistent with the reserves' classification under the Reserve Act 1977, provided that <i>buildings, structures, lake structures and hard surfaces</i> comply with the relevant rules in the Lakes A Zone.
Lake Okareka Scenic Reserve U16/071	The <i>bed</i> of Lake Okareka, Sec 12 & 16 & Pt Sec 1 Blk III, & Pt Lot 2 of Sec 2, Blk II Tarawera S.D. Crown Land reserved from sale: Sec 122 Land Act 1908 – Marginal Strip Lots 5, 6 DPS 34147; Sec 12 Blk II Tarawera S.D. Sec 12 Blk VI Tarawera S.D. Gaz 1985 p.5490 1986 p.2570 579.8243 ha	<ul style="list-style-type: none"> <li>• Okareka Policy Area</li> <li>• Tarawera Policy Area</li> <li>• Okataina Policy Area</li> <li>• Tikitapu Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Protection Management Area</li> </ul>	
Lake Okataina Scenic Reserve U15/052	Pt Okataina Nos 3, 4, 5, 6B, 7, 8 & 12 Blk, Pt Rotoiti No. 14 Blk, Blks XI, XII, XV, XVI Rotoiti S.D., Blks II, III, IV, VIII, Tarawera S.D., Secs 6, 7,8 Blk XVI, Rotoiti S.D. 4388.6211 ha Gaz. 1980 p.913 1982 p.1455.	<ul style="list-style-type: none"> <li>• Okataina Policy Area</li> <li>• Protection Management Area</li> </ul>	

## APPENDIX 14.0 PROTECTED NATURAL AREAS (PNAS)

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
Lake Tarawera Scenic Reserve U16/083	<p>Sec 2, Blk I, Secs 4, 5, Blk II, Ruawahia S.D. Pt Sec 2, Blk V, Ruawahia S.D., Ruawahia 3 Blk, Blks III, IV, VIII &amp; XII, Tarawera S.D. &amp; Blks I, V, IX Ruawahia S.D. Okataina 6A Blk, Blk IV, Tarawera S.D. Sec 4, Blk XI, Tarawera S.D., Sec 6, Blk XII, Tarawera S.D. S.O. 45482, 47140 - 2, 41758, M.L.14622. Gaz. 1979 p.2291.</p> <p>Sec 4 Blk VII Tarawera S.D. Secs 3, 5, 6, 9, 13, 25, 33 Blk VII Tarawera S.D. Gaz 1986 p.3641, 4473 5835.5685 ha</p>	<ul style="list-style-type: none"> <li>• Rural Management Area</li> <li>• Protection Management Area</li> </ul>	
Lake Tikitapu Scenic Reserve U16/078	<p>Pt Sec 2 Blk VI Tarawera S.D. S.O. 18550, 18551 340.1813 ha Gaz. 1986 p.3536, 1994 p.3026</p> <p>Lots 1 &amp; 2 DPS 12317 Blk II, Tarawera S.D.; Sec 8 Blk X Tarawera S.D.</p>	<ul style="list-style-type: none"> <li>• Tikitapu Policy Area</li> <li>• Rotokakahi Policy Area</li> <li>• Tarawera Policy Area</li> <li>• Okareka Policy Area</li> <li>• Western Corridor Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Protection Management Area</li> </ul>	

## APPENDIX 14.0 PROTECTED NATURAL AREAS (PNAS)

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
	S.O. 39932 8.0194 ha. Gaz. 1986 p.3536  Secs 1, 2, 3, 4, SO 59741 .8204 ha 1994 p.3026		
Millers Bush Scenic Reserve U16/096	Lot 1 DPS 16746; Lot 1 DPS 13660; and Lot 74, DP 36908, Lots 6, 7 DPS 69143 Blk III Tarawera S.D. 39.4416 ha Gaz. 1979 p.210	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Pareheru Scenic Reserve U16/084	Secs 29 & 31, Blks XIV, XV, Tarawera S.D. S.O. 43323, 44583, 45731 13.4279 ha Gaz. 1980 p.989	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Less Sensitive Management Area</li> </ul>	
Tikitapu Domain Recreation Reserve U16/080	Secs 4 & 5, Blk VI, Tarawera S.D. SO 33374 SO 33376 Gaz. 1948 p.818 1953 p.1986 4.0721 ha.	<ul style="list-style-type: none"> <li>• Tikitapu Policy Area</li> <li>• Protection Management Area</li> </ul>	

## APPENDIX 14.0 PROTECTED NATURAL AREAS (PNAS)

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
Waimangu Scenic Reserve U16/099	Sec 1, S.O. 12517; Secs 2, 3, 4, & 5A, S.O. 14733; Blk XV Tarawera S.D. 134.6109 ha Gaz. 1980 p.2133. Sec 45, S.O. 53282, Pt Rotomahana Parekarangi 6P1, 6Q1 and 6R1 Blks; M.L. 5342A2, S.O. 14733, Blk XV, Tarawera S.D.; Secs 7 & 8, S.O. 53257 and 53281, Blk XVI Tarawera S.D. 831.4645 ha Gaz. 1986 p.1584 & 2570	<ul style="list-style-type: none"> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Waione Block Scenic Reserve U15/051	Pts Waione 'C' Blk, Blks XII & XVI & Secs 2, 3 & 4 SO 37986, SO 23320 Blk XVI, Rotoiti S.D. 74.7555 ha. Gaz. 1980 p.2705.	<ul style="list-style-type: none"> <li>• Okataina Policy Area</li> <li>• Protection Management Area</li> </ul>	
Un-named Scenic Reserve (adjoining Waione Block) V15/002	Block XVI, Rotoiti S.D. 27.5186 ha Waione 1A Blk Gaz. 1982 p.1455	<ul style="list-style-type: none"> <li>• Okataina Policy Area</li> <li>• Protection Management Area</li> </ul>	

## APPENDIX 14.0 PROTECTED NATURAL AREAS (PNAS)

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
Crater Block Conservation Area V16/030	Pt Rotomahana Parekarangi 5B3 Blk Blk IX Ruawahia S.D. Pt Secs 1, 2, Blk XIII Ruawahia S.D. SO 22960 450.00 ha	<ul style="list-style-type: none"> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Protection Management Area</li> </ul>	
Isthmus Scenic Reserve V16/002	Secs 1, 2, 3, 4 Blk XII Tarawera S.D. S.O. 14025 Gaz 1981 p.2581 43.9083 ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Maori Burial Ground Reserve V16/001	Sec 5 Blk XII Tarawera S.D. SO 20794 Gaz 1974 p.169 17.8061 ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Whakarewarewa Crown Land Conservation Area U16/107	Sec 1 S.O. 60453 Blk VI Tarawera S.D. 276.5000 ha	<ul style="list-style-type: none"> <li>• Tikitapu Policy Area</li> <li>• Western Corridor Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Protection Management Area</li> </ul>	
Lake Tarawera Scenic Reserve U16/082	Pt Secs 1, 2, Secs 34, 35 Blk VII Tarawera S.D. SO 4452, 19871, 29300 & 53270 Gaz 1981 p.2581 1985 p.2909 41.6879 ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Okataina Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Less Sensitive Rural Management Area</li> <li>• Protection Management Area</li> </ul>	

RESERVE AND DOC REFERENCE	LEGAL DESCRIPTION & GAZETTE REFERENCE	POLICY AREA / MANAGEMENT AREA	ACTIVITIES
Lake Rotokakahi Scenic Reserve U16/079	Sec 13, Pt Sec 7 Blk X Tarawera S.D. SO 48384 Gaz. 1986 p.3536 219.8700 ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Rotokakahi Policy Area</li> <li>• Sensitive Rural Management Area</li> <li>• Protection Management Area</li> <li>• Less Sensitive Rural Management Area</li> </ul>	
Waimangu Crown Land Conservation Area U16/104	Sec 2 SO 58788 Blk XV Tarawera S.D. 8.0150 ha	<ul style="list-style-type: none"> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Te Tapahoro Recreation Reserve V16/005	Sec 1 S.O. 58277 Blk V Ruawahia S.D. Gaz 1990 p.4590 5.3600 ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Lake Rotomahana Wildlife Refuge U16/120	SO 340318 Gaz 1964 p2299 and 1967 p1437 766 ha	<ul style="list-style-type: none"> <li>• Rotomahana Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	
Makatiti Dome Scenic Reserve V16/031	Lot 1 DPS 37775 Gaz 1991 p2113 2479ha	<ul style="list-style-type: none"> <li>• Tarawera Policy Area</li> <li>• Sensitive Rural Management Area</li> </ul>	