

# TARGETED RATE AREAS OF SERVICE

## Water Supplies

### Central Urban

Water is drawn from the Karamu-Takinga Springs and pumped via two pump stations (Matipo and Utuhina) to storage reservoirs. A further three booster stations (Pukehangi, Thomas Crescent and Tihiotonga) are used to service the supply area. The supply serves a population of 38,422 with an estimated 15,712 connections covering an area of 2,600 hectares. An average of 23,310m<sup>3</sup> was used daily in 2003, with estimated peak day consumption of 36,300m<sup>3</sup>, which is supplied through 303km of pipe work. The supply is lightly chlorinated. Total reservoir capacity is 32,015m<sup>3</sup>.



Rotorua District Council Plan Number 10173 Sheet 2

### Description of Area

An urban area encompassing the Ngongotaha, Rotorua City and Eastern Suburbs as shown on RDC Drawing No: 10173 Sheet 2. Refer also to District Plan Maps 7 – 43, 104, 105, 107, 108.

### History

A water supply for the Rotorua Township was first established in 1887. Since then, a number of improvements and extensions have been made as the City has developed. A public supply was first established for Ngongotaha in 1924, and for the Eastern Suburbs in 1963.

### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area. The following stated minimum levels of service for flow and pressure are not achievable for every single connection at all times. Council's aim is that at least

95% of connections will meet these levels under normal demand.

### Quantity

Flow	Domestic Connections – minimum 30 litres/ minute Commercial/Extraordinary – dependent on size of connection
Pressure Range	Minimum 30 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	95% of fire hydrants are to meet the NZ Fire Service Code of Practice for Firefighting Water Supplies.
Water Quality	2004 Public Health Grading - Central Zone Ba. - Eastern Zone Bd. - Ngongotaha Zone Ed.

### Supply Funding

Costs and revenues for the Rotorua Urban Water Supply are combined with those of the Rotokawa Water Supply and Ngongotaha Rural Water Supply in one stand-alone self-funding account.

### Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotorua Urban Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Residential Consumers:	
Fixed Annual Charge	\$138.00 – a fixed amount to unmetered connections.
Commercial/Industrial/Non-Residential:	
Metered Charge	\$0.60 per 1,000 litres as measured by meter with a minimum charge payable equivalent to a volume of 58,000 litres per quarter.
Serviceable Rating Unit:	
Annual Charge	\$69.00 – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.

FUNDING

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 020, 87 09 010, 87 09 011, 87 09 060, 87 06 010, 87 06 020,  
87 06 030, 87 03 010, 87 03 020, 87 03 030, 87 03 040.

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 September 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 92/03/10 Resolved 7 April 1992

## Eastern Area

A predominantly urban supply serving a population of 9,316 with 3,696 domestic and 317 industrial or commercial connections covering an area of 1,900 hectares. Water is drawn from springs in Whakarewarewa Forest and pumped to a high level storage reservoir in Tarawera Road, then gravitated to the main reservoir just above Highfield Place in Tarawera Road. The area served by the supply extends from the Puarenga Stream, north east along the lakeshore, to the airport, and south up to about the 335m contour level. An average of 3,963m<sup>3</sup> was used daily in 2003, with a estimated peak day consumption of 7,660m<sup>3</sup> which is supplied through 85km of pipework. Total reservoir capacity 7,270m<sup>3</sup>.

## Ngongotaha

Originally a predominantly urban supply for the Ngongotaha Township but now with minor extensions, services some of the adjoining farmlands. The supply services a population of 4,348 with 1,876 domestic and 293 industrial/commercial connections covering an area of 1300 hectares. Water is drawn from the Taniwha Springs and pumped to reservoirs in Central Road and Henderson Road. An average of 2,330m<sup>3</sup> was used daily in 2003 with a peak consumption of 4,309m<sup>3</sup>, which is supplied through 50km of pipework. Total reservoir capacity is 6,130m<sup>3</sup>.

## Ngongotaha Rural



Rotorua District Council Plan Number 10175

## Description of Area

A predominantly farming/lifestyle area surrounding the Ngongotaha township as shown on RDC Plan No: 10175 - 001. Refer also to District Plan Maps 6, 7, 8, 9, 10, 11, 12, 13, 104, 105.

## History

This area was originally supplied with water by ad-hoc extensions to the previously – known Ngongotaha Water Supply. Consumers in the area were advised of the proposed formation of this area and proposed levels of service by letter in May 2000.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Flow	Minimum 1,500 litres per day
Pressure Range	Minimum 10 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Ed Does not meet Drinking Water Standards of NZ as supply is not permanently chlorinated.

## Supply Funding

Costs and revenues for the Ngongotaha Rural Water Supply are combined with those of the Rotorua Urban Water Supply and Rotokawa Water Supply in one stand-alone self-funding account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Ngongotaha Rural Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Residential Consumers:	
Fixed Annual Charge	\$138.00 – a fixed amount to unmetered connections.
Commercial/Industrial/Non-Residential:	
Metered Charge	\$0.60 per 1,000 litres as measured by meter with a minimum charge payable equivalent to a volume of 58,000 litres per quarter.
Serviceable Rating Unit:	\$69.00 – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.
Annual Charge	

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

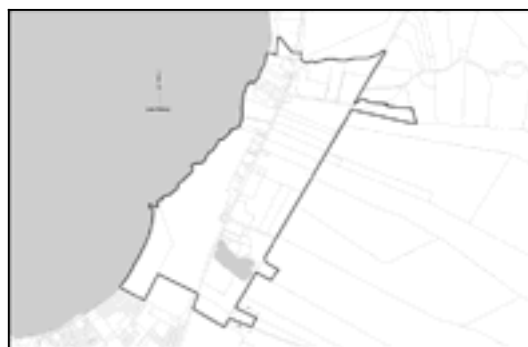
### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 060, 87 06 030, 87 03 030  
Council Minutes  
Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989

## Rotokawa



Rotorua District Council Plan Number WS 1053

## Description of Area

A predominantly domestic/lifestyle area to the East of Lake Rotorua as shown on RDC Plan No: WS 1053. Included in this area are the Airport and the Eastgate Business Park. Water is supplied from the Eastern Zone of the Rotorua Urban Water supply. Refer also District Plan Maps 22, 44, 45, 46, 105.

## History

This area was originally an extension of the previous Eastern Water Supply which occurred in 1963. All consumers in the area were advised of the proposed formation of this area and proposed levels of service by letter in May 2000.

## Levels of Service

The following levels of service are those, which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Flow	There is no minimum flow standard – although consumers will normally receive some flow continuously during peak demand periods.
Pressure Range	Minimum 5 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Ed Does not meet Drinking Water Standards of NZ as supply is not permanently chlorinated.

## Supply Funding

Costs and revenues for the Rotokawa Water Supply are combined with those of the Rotorua Urban Water Supply and Ngongotaha Rural Water supply in one stand-alone self-funding account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotokawa Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
All Consumers:	
Metered Charge	\$0.60 per 1,000 litres as measured by meter with a minimum charge payable equivalent to a volume of 58,000 litres per quarter.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 03 072, 87 09 010, 87 09 011, 87 06 020, 87 03 020

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995

Works Committee Rec. E 89/04/16 Resolved 20 April 1989

## Mamaku

A predominantly residential supply serving 258 properties. Water is drawn from a deep bore, pumped to a storage reservoir in Mamaku Domain and fed into reticulation via a hydro-pneumatic booster station because of the flat terrain. An average of 225m<sup>3</sup> was used daily in 2003, with a peak consumption of 329m<sup>3</sup>, which is supplied through 13km of pipework. The supply is lightly chlorinated. Total reservoir capacity is 225m<sup>3</sup>.



Rotorua District Council Plan Number WS 4020

## Description of Area

A predominantly residential area covering the Mamaku Village as shown on RDC Plan No: WS4020. Refer also to District Plan maps 76, 77, 104.

## History

First commissioned in 1987, and subsequently extended in 1997.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Flow	Domestic connections 20 litres per minute Commercial/Extraordinary – dependent on size of connection
Pressure Range	Minimum 20 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	95% of fire hydrants are to meet the NZ Fire Service Code of Practice for Fire Fighting Water Supplies
Water Quality	2003 Public Health Grading – Ca

## Supply Funding

The Mamaku Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Mamaku Water Supply: (All including GST)

Capital Contribution:	\$1,157.63 per property payable on application for connection (this is adjusted annually for inflation using the cost of construction (CCI) index.
New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$26.50 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water (in addition to fixed charge)	\$0.35 per 1,000 litres – measured by meter.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 040, 87 02 030, 87 06 070.

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 96/04/10 Resolved 22 April 1996

## Rotoiti

A predominantly residential supply servicing 332 properties. Water is drawn from the Wai-iti Springs and pumped directly into reticulation to storage reservoirs at Gisborne Point and Hinehopu. An average of 284m<sup>3</sup> was used daily in 2003, with a peak consumption of 461m<sup>3</sup>, which is supplied through 14km of pipework. The supply is lightly chlorinated. Total reservoir capacity is 308m<sup>3</sup>.



Rotorua District Council Plan Number WS 6013

## Description of Area

A predominantly residential area on the Southern shores of Lake Rotoiti as shown on RDC Plan No: WS 6013. Refer also to District Plan maps 64, 65, 66, 67, 68, 106.

## History

The supply was established in 1976.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Flow	Residential minimum – 20 litres per minute Commercial/Extraordinary – dependent on size
Pressure Range	Minimum 20 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Bd

## Supply Funding

The Rotoiti Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotoiti Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$21.00 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water Charge (in addition to fixed charge)	\$0.28 per 1,000 litres – measured by meter.
Serviceable Rating Unit Charge:	\$10.50 per quarter – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.

## Financial/Technical

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 080, 87 05 010, 87 02 050, 87 06 050.

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995

Works Committee Rec. E 89/04/16 Resolved 20 April 1989

## Rotoma

A predominantly residential supply serving 129 properties. Water is drawn from Lake Rotoma and pumped to a storage reservoir in Oxford Road. An average of 71m<sup>3</sup> was used daily in 2003, with a peak consumption of 129m<sup>3</sup>, which is supplied through 7km of pipework. The supply is lightly chlorinated. Total reservoir capacity is 220m<sup>3</sup>.



Rotorua District Council Plan Number WS 6514

## Description of Area

A predominantly residential area on the Southern shores of Lake Rotoma as shown on RDC Plan No: WS6514. Refer also to District Plan maps 71, 72, 73, 106.

## History

The supply was established in 1983.

## Levels of Service

The following levels of service are those, which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Flow	Domestic connections 20 litres per minute Commercial/Extraordinary – dependent on size of connection
Pressure Range	Minimum 20 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Ca

## Supply Funding

The Rotoma Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotoma Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$58.00 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water Charge (in addition to fixed charge)	\$0.72 per 1,000 litres – measured by meter.
Serviceable Rating Unit Charge:	\$29.00 per quarter – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 090, 87 02 020, 87 06 050

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995

Works Committee Rec. E 89/04/16 Resolved 20 April 1989

## Kaharoa

A predominantly rural supply serving 281 properties supplying 7,500 hectares of farmland. Water is drawn from Hamurana Springs and pumped to a storage reservoir in Te Waerenga Road and fed on via a booster station in Tauranga Direct Road to a reservoir in Roy Road from where it is further boosted to consumers on Lagoon Road. An average of 1,023m<sup>3</sup> was used daily in 2003, with a peak consumption of

1,585m<sup>3</sup>, which is supplied through 57km of pipework. Total reservoir capacity is 1,218m<sup>3</sup>.



Rotorua District Council Plan Number WS 3529 Sheet 2

## Description of Area

A predominantly farming and lifestyle area to the West of Lake Rotorua on the Mamaku Plateau incorporating the Kaharoa locality as shown on Rotorua District Council's Drawing No: WS 3529 Sheet 2. Refer also District Planning Maps 5, 6, 101, 102, 104, 105.

## History

First commissioned as a Council supply in 1980. Subject to two extensions of area in 1984 and 1988.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

The quantity levels of service were originally set by the community at the time of construction through the Kaharoa Water Supply Liaison Committee. The source, pumps and network were designed to supply a steady flow to each property over 24 hours with each property requiring its own on-site storage and, if necessary, pumping equipment.

The flow for each property is calculated from a daily allocation based on land area and land use (dairy or sheep/beef). The allocation is enforced by the use of a flow restrictor at each connection point.

## Quantity

Flow	Dairy – 450 litres/hectare/day Sheep/Beef – 250 litres/hectare/day
The minimum allocation for small lots is 1,500 litres per day.	
Pressure Range	No minimum (enough to provide flow) Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	No public fire fighting water supply is provided for.

Water Quality	2003 Public Health Grading – Dd Does not meet Drinking Water Standards of NZ as supply is not permanently chlorinated.
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The water quantity levels of service were confirmed by a review in February 1999, and advised in writing to all property owners within the scheme in October 1999.

## Supply Funding

The Kaharoa Water supply is self-funding with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Kaharoa Water Supply: (All including GST)

Capital Contribution:	A capital contribution is payable per property on connection to the scheme. This is calculated based on land area, farming type, and zone within the scheme.
New Connections	\$90.00 admin fee – in addition to physical works cost by contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$72.00 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water Charge (in addition to fixed charge)	\$0.24 per 1,000 litres – measured by meter.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 030, 87 02 010, 87 06 060

### Council Minutes

Resolution Council Meeting May/June 1999  
Works Committee Rec. E 95/08/19 Resolved 26 September 1995

Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 89/08/35 Resolved 21 August 1989  
Works Committee Rec. E 97/06/19 Resolved 3 June 1997  
Works Committee Rec. E 98/04/08 Resolved 14 April 1998

## Reports

"A study of Kaharoa Water Supply System" RDC May 1996  
"Kaharoa Water Supply Scheme Network Analysis" RDC Feb. 1999

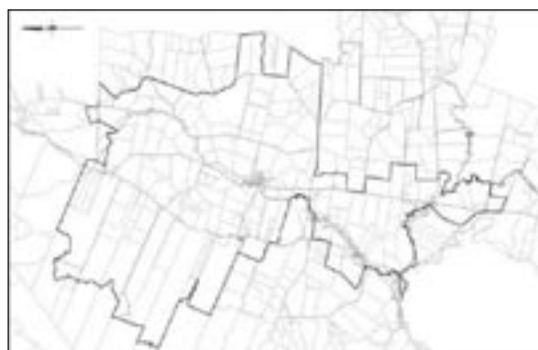
## Reporoa/Mihi (combined in 2003)

### Reporoa

A predominantly rural supply serving 327 properties supplying 5,700 hectares of farmland. Water is gravity fed from springs located approximately 8.5km NW of Reporoa township and fed on via a booster station in Broadlands Road to Broadlands and Golden Springs. An average of 4,826m<sup>3</sup> was used daily in 2003, with a peak consumption of 8,474m<sup>3</sup>, which is supplied through 53km of pipework. Largest Consumer: Fonterra Co-operative Group Ltd factory 2,190m<sup>3</sup> average, 4,688m<sup>3</sup> peak. The supply is lightly chlorinated. There is no reservoir capacity.

### Mihi

A predominantly rural supply serving 31 properties supplying 1,100 hectares of farmland. Water is drawn from Mihi Springs and pumped directly into reticulation to a storage reservoir in Strathmore Road and fed on via booster stations in Strathmore Road and Sangro Road to consumers. An average of 384m<sup>3</sup> was used daily in 2003, with a peak consumption of 628m<sup>3</sup>, which is supplied through 14km of pipework. Total reservoir capacity is 403m<sup>3</sup>.



Rotorua District Council Plan Number 10174



## Description of Area

A predominantly farming area which incorporates the Reporoa Village and includes the Reporoa Dairy Factory as shown on RDC Plan 10174 - 001. Refer also to District Plan maps 88, 89, 90, 114, 117.

## History

This supply is an amalgamation of the former Reporoa Water Supply (established 1968) and the former Mihi Water Supply (established 1953). These were amalgamated in 1997.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

## Quantity

Differing quantity levels of service are set for Farming, Residential and Dairy Factory consumers. The sources, pumps and network are designed to supply a steady flow to each farm over 16 hours with each farm requiring its own on-site storage and if necessary, pumping equipment. The flow for each property is calculated from a daily allocation based on farm area. The allocation is enforced by the use of a flow restrictor at each connection point. The Dairy Factory has one connection supplying a steady flow, plus an extra allocation during night hours which it stores in its own reservoirs for use during the day. Residential users receive an unrestricted 24 hour flow.

Flow	Residential minimum – 20 litres per minute Farming – 505 litres/hectare/day Factory – 3600 cubic metres/day
Pressure Range	Minimum 15 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading - Reporoa Zone Db - Mihi Zone Db

## Supply Funding

The Reporoa Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Reporoa Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by Contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Domestic and Non-Farming:	
Metered Charge	\$0.31 per 1,000 litres
Minimum Charge	\$26.00 per quarter
Farming and Factory:	
Metered Charge	\$0.17 per 1,000 litres
Minimum Charge	\$35.00 per quarter

## Financial/Technical Planning

Key documents ensuring sound management of the water supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.  
RDC Files 87 09 050, 87 09 070, 87 02 120, 87 02 060, 87 02 040, 87 06 090, 87 06 080.

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 90/05/36 Resolved 15 May 1990.

## Hamurana

A predominantly urban supply serving 292 properties includes a number of lifestyle and farm blocks. Water is drawn from the Hamurana Springs and pumped to a storage reservoir in Turner Road and fed on via gravity to the Unsworth Road reservoir. An average of 310m<sup>3</sup> was used daily in 2003, with a peak consumption of 652m<sup>3</sup>, which is supplied through 20km of pipework. Total reservoir capacity is 700m<sup>3</sup>.



Rotorua District Council Plan Number WS 3024

### Description of Area

A predominantly residential lifestyle and farming area on the Northwestern side of Lake Rotorua as shown on RDC Plan No: WS3024 - 001. Refer also to District Plan maps. 2,3,4,5,6,105.

### History

Commissioned in 1992.

### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

### Quantity

Flow	Residential minimum – 20 litres per minute Commercial/Extraordinary – dependent on size of connection
Pressure Range	Minimum 15 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Dd Does not meet Drinking Water Standards of NZ as supply is not permanently chlorinated.

### Supply Funding

The Hamurana Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

### Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Hamurana Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$19.00 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water Charge (in addition to fixed charge)	\$0.21 per 1,000 litres – measured by meter.
Serviceable Rating Unit Charge:	\$9.50 per quarter – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.
Scheme Rate:	0.116 cents per dollar of land value – a targeted rate on the basis of land value for each rating unit within the Hamurana Water Supply Area where the ratepayer did not elect to make a lump sum contribution towards the construction of the Water Supply Scheme.

### Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

### Related Documents:

#### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

#### RDC Files

87 05 092, 87 05 090, 87 02 180, 87 06 201.

#### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 91/09/036 Resolved 11 Sept. 1991.

## Okareka

A predominantly residential supply serving 255 properties. Water is taken from the Eastern No.1 reservoir (Waipa Spring source) and pumped to a storage reservoir in Okareka Loop Road near Lake Tikitapu (Blue Lake). An average of 147m<sup>3</sup> was used daily in 2003, with a peak consumption of 335m<sup>3</sup>, which is supplied through 12km of pipework. Total reservoir capacity is 600m<sup>3</sup>.



Rotorua District Council Plan Number WS 5024

### Description of Area

A residential area on the shores of Lake Okareka as shown on RDC Plan No: WS5024 - 001. Refer also District Plan Maps 78, 108.

### History

The supply was commissioned in 1994.

### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Water Supply Area.

### Quantity

Flow	Residential minimum – 20 litres per minute Commercial/Extraordinary – dependent on size of connection
Pressure Range	Minimum 20 metres pressure head Maximum 90 metres pressure head
Note:	Flow/Pressure figures are at point of supply.
Fire-fighting Water	Although a number of fire hydrants are installed, there is no guarantee that these will meet the NZ Fire Service Code of Practice for Fire fighting Water Supplies.
Water Quality	2003 Public Health Grading – Bb Does not meet Drinking Water Standards of NZ as supply is not permanently chlorinated.

## Supply Funding

The Okareka Water Supply is self-funding, with all costs and revenues identified in a separate stand-alone account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Okareka Water Supply: (All including GST)

New Connections	\$90.00 admin fee – in addition to physical works cost by contractor.
Disconnections	\$73.00 (temporary) \$253.12 (permanent)
Restoration	\$73.00
Fixed Water Charge	\$17.00 per quarter – payable by each serviced and metered separately used or inhabited part of a rating unit within the Water Supply Area.
Metered Water Charge (in addition to fixed charge)	\$0.22 per 1,000 litres – measured by meter.
Serviceable Rating Unit Charge:	\$8.50 per quarter – payable by each separately used or inhabited part of a rating unit which is unconnected but within the Water Supply area and within 100 metres of a Public Water main.
Scheme Charge:	\$145.60 per annum – a targeted rate on a uniform basis for each rating unit within the Okareka Water Supply Area where the ratepayer did not elect to make a lump sum contribution towards the construction of the scheme.

## Financial/Technical Planning

Key documents ensuring sound management of the water supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation

Local Government Act 2002; Local Government (Rating) Act 2002, Health Act 1956, Water Supply Protection Regulations 1961, Rotorua District General Bylaw 1980, Schedule, Part 17.

### RDC Files

87 09 200, 87 05 080, 87 02 200, 87 06 200.

### Council Minutes

Works Committee Rec. E 95/08/19 Resolved 26 Sept. 1995  
Works Committee Rec. E 89/04/16 Resolved 20 April 1989  
Works Committee Rec. E 89/08/37 Resolved 21 August 1989



## Waste Water Services

### Rotorua Urban

Approximately 20,000 lateral pipes connect drains at the property boundary to a network of 370km of pipes. These pipes and 53 pump stations convey the wastewater to the Treatment Plant.



Rotorua District Council Plan Number 10192

#### Description of Area

The Urban area of Rotorua City, including the Eastern Suburbs and Ngongotaha areas, as shown on RDC Plan No 10192. Refer also to District Plan Maps 7 – 43, 104, 105, 107 & 108.

#### History

Parts of Rotorua City have been served by a public sewerage system since 1892. This has been extended a number of times since then. Following the construction of the first Wastewater Treatment Plant, full reticulation was extended to all of the city, plus Eastern Suburbs and Ngongotaha in 1980.

#### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

#### Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

#### Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

#### Capital Works

The proposed new schemes to the east of Rotorua City (Eastern Area, Mourea, Okawa Bay, Okere, Otaramarae) will share the cost of the Rotorua Waste Water Treatment Plant upgrade (capacity component) on a 50/50 basis with the Rotorua Urban Scheme. Other funding sources for the capital costs of these schemes are: Ministry of Health Grants, Environment BOP Grants, and a total of \$2.0 million from General Rates. The remainder of costs will be recovered from ratepayers within each scheme area.

#### Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Eastern Area, Mourea, Okawa Bay, Okere/Otaramarae and Hamurana. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

#### Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotorua Urban Wastewater Service Area:

(All including GST)

New Connections	\$63.00 administration fee
Disconnections	\$120.00 permanent
Residential:	Annual Charge - \$266.00
Commercial/	1-4 Pans/Urinals (per pan) - \$266.00
Industrial:	5-10 Pans/Urinals (per pan) - \$226.10
	11+ Pans/Urinals (per pan) - \$212.80
Availability:	Annual Charge - \$133.00
	Payable by properties unconnected but situated within the Wastewater Service Area and within 50 metres of a public sewer main.

#### Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Business Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956. (Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

# Rotokawa Area Sewerage Scheme



Rotorua District Council Plan Number 10450

## Description of Area

A rural area to the east of Rotorua City, generally from the Airport to the SH 30/SH 33 intersection as shown on RDC Plan No.10450, Sheet 11. Refer also to District Plan Maps 44-51.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa

Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

## Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

These amounts for the Rotokawa area scheme area as shown below:

<b>Total Scheme Cost</b>	<b>\$1,872,420</b>
Ministry of Health	- 936,210
Environment BOP	- 336, 994
RDC General	- 199,500
<b>Cost to be recovered from Ratepayers</b>	<b>\$399,716</b>

FUNDING

## Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Mourea, Okawa Bay, Brunswick and Rotokawa. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

## Rates and Charges

Currently the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

## Brunswick Area Sewerage Scheme



Rotorua District Council Plan Number 10450

## Description of Area

A rural area to the east of Rotorua City, generally from the junction of SH 30 and SH 33 to Banksia Place as shown on RDC Plan No.10450, Sheet 12. Refer also to District Plan Maps 44-51.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the

sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

### Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

### Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

### Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

These amounts for the Brunswick area scheme area as shown below:

<b>Total Scheme Cost</b>	\$2,909,289
Ministry of Health	- 1,454,645
Environment BOP	-
RDC General	- 316,500
<b>Cost to be recovered from Ratepayers</b>	<b>\$1,138,144</b>

### Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Mourea, Okawa Bay, Brunswick and Rotokawa. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

### Rates and Charges

Currently the subject of separate consultation.

### Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

### Related Documents:

#### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956. (Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

#### RDC Files:

85 08 010, 85 08 130

## Mourea Sewerage Scheme



Rotorua District Council Plan Number 10450

### Description of Area

An area enclosing the lakeside community of Mourea, as shown on RDC Plan No.10450, Sheet 14. Refer also to District Plan Maps 51 and 54.

FUNDING

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

## Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

These amounts for the Mourea scheme area as shown below:

<b>Total Scheme Cost</b>	\$4,785,073
Ministry of Health	- 2,392,536
Environment BOP	- 1,110,828
RDC General	- 426,000
<b>Cost to be recovered from Ratepayers</b>	\$855,708

## Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Mourea, Okawa Bay, Brunswick and Rotokawa. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

## Rates and Charges

Currently the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130



# Okawa Bay Sewerage Scheme



Rotorua District Council Plan Number 10450

## Description of Area

An area enclosing the lakeside community of Okawa Bay, as shown on RDC Plan No.10450, Sheet 13. Refer also to District Plan Maps 51 and 54.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type

sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

## Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

These amounts for the Okawa Bay scheme area as shown below:

<b>Total Scheme Cost</b>	\$892,517
Ministry of Health	- 446,259
Commercial Capital Contribution	- 44,097
RDC General	- 79,500
<b>Cost to be recovered from Ratepayers</b>	<b>\$322,661</b>

## Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Mourea, Okawa Bay, Rotokawa and Brunswick. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

## Rates and Charges

Currently the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

## Okere Sewerage Scheme



Rotorua District Council Plan Number 10450

## Description of Area

An area on the shore of Lake Rotoiti from Mourea northwards, including Okere and the Te Akau Road area, as shown on RDC Plan No.10450, Sheet 16. Refer also District Plan Maps 54, 55, 57 and 59.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes.

## Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

## Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, , Mourea, Okawa Bay, Rotokawa and Brunswick. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

## Rates and Charges

Currently the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

# Otaramarae Sewerage Scheme



Rotorua District Council Plan Number 10450

## Description of Area

An area on the shore of Lake Rotoiti as shown on RDC Plan No.10450, Sheet 16a. Refer also District Plan Maps 54, 55, 57 and 59.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is commencing the establishment of rural sewerage schemes to remove effluent input into the lakes.

Approval has been given to commence design development and construction of four new areas, known as Mourea, Okawa Bay, Brunswick and Rotokawa Sewerage Areas. Investigation is being undertaken into treatment options for Okere and Otaramarae Sewerage Areas, and funding has been earmarked for proposed Okareka, Tarawera, Gisborne Point/Hinehopu and Hamurana Sewerage Areas.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes.

## Capital Works

The capital costs of the proposed schemes to the east of the city which will be connected to the Urban Waste Water Treatment Plant (Mourea, Okawa Bay, Brunswick and Rotokawa) will be subsidised 50% by the Ministry of Health. The remainder of costs will be funded by a combination of Environment BOP, grants, commercial users contributions, Rotorua District Council general rates, and individual ratepayers' contributions. Funding sources and proportions for the other proposed schemes is still under consideration.

## Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant

will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Mourea, Okawa Bay, Rotokawa and Brunswick. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

## Rates and Charges

Currently the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

# Okareka Sewerage Scheme



Rotorua District Council Plan Number 10407-001

## Description of Area

An area on the shore of Lake Okareka consisting of the Okareka residential community as shown on RDC Plan No.10407-001. Refer also District Plan Map 78.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is considering the establishment of rural sewerage schemes to remove effluent input into the lakes.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below. The proposed rural sewerage schemes with treatment and disposal independent of the existing Rotorua Waste Water Treatment Plant (Okareka, Tarawera, Gisborne Point/Hinehopu) will be principally funded from ratepayers within each scheme area via targeted rates (both capital and operating). Other funding sources for the capital costs of these schemes are: Ministry of Health Grants and Environment BOP Grants.

## Rates and Charges

To be the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

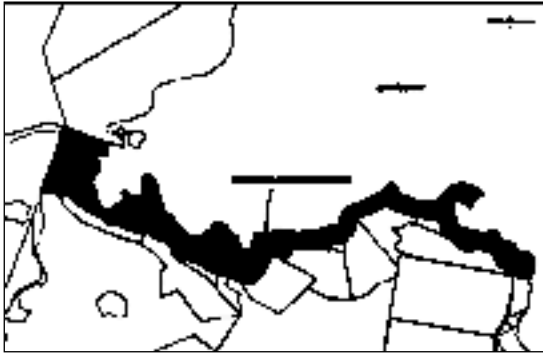
### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

## Tarawera Sewerage Scheme



Rotorua District Council Plan Number 10407-005

### Description of Area

An area on the western shore of Lake Tarawera comprising the current residential development as shown on RDC Plan No. 10407-005. Refer also to District Plan Maps 79-82.

### History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is considering the establishment of rural sewerage schemes to remove effluent input into the lakes.

### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

### Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

### Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below. The proposed rural sewerage schemes with treatment and disposal independent of the existing Rotorua Waste

Water Treatment Plant (Okareka, Tarawera, Gisborne Point/Hinehopu) will be principally funded from ratepayers within each scheme area via targeted rates (both capital and operating). Other funding sources for the capital costs of these schemes are: Ministry of Health Grants and Environment BOP Grants.

### Rates and Charges

To be the subject of separate consultation.

### Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

### Related Documents:

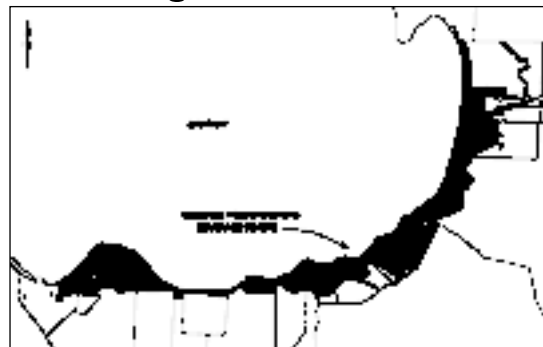
#### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

#### RDC Files:

85 08 010, 85 08 130

## Gisborne Point/Hinehopu Sewerage Scheme



Rotorua District Council Plan Number 10407-003

### Description of Area

An area on the eastern shore of Lake Rotoiti from Gisborne Point to Hinehopu, as shown on RDC Plan No. 10407-003. Refer also to District Plan Maps 65-68.

### History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is considering the establishment of rural sewerage schemes to remove effluent input into the lakes.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below. The proposed rural sewerage schemes with treatment and disposal independent of the existing Rotorua Waste Water Treatment Plant (Okareka, Tarawera, Gisborne Point/Hinehopu) will be principally funded from ratepayers within each scheme area via targeted rates (both capital and operating). Other funding sources for the capital costs of these schemes are: Ministry of Health Grants and Environment BOP Grants.

## Rates and Charges

To be the subject of separate consultation.

## Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

## Related Documents:

### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.  
(Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

### RDC Files:

85 08 010, 85 08 130

## Hamurana Sewerage Scheme



Rotorua District Council Plan Number 10407-004

## Description of Area

An area on the northern shore of Lake Rotorua encompassing the Hamurana residential area as shown on RDC Plan No.10407-004. Refer also to District Plan Maps 4, 6 and 7.

## History

In response to concern over the health of Rotorua's lakes and the effect of lakeside settlements, Council in 2004 is considering the establishment of rural sewerage schemes to remove effluent input into the lakes.

## Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Wastewater Service Area. Every serviceable property is entitled to a single 100 mm diameter wastewater connection to the boundary of the property. Council will maintain the sewer system in a state that will enable domestic type sewage to be carried away and treated by the system without blockages.

Note: Serviceable properties are those properties with some part within 50 metres of a public sewer main. These properties, if not connected to the public sewer, are required to pay an availability charge.

## Effluent Quality

Council will treat all sewage discharged into its system in accordance with its Resource Consents.

## Funding

The Rotorua Urban Waste Water Scheme has historically been self-funding, with all costs and revenues identified in a separate stand-alone account. Council is currently proposing a new funding policy to take into account proposed rural waste water schemes. The principles of this are as outlined below.

### Capital Works

The proposed new sewerage scheme at Hamurana will be principally funded from ratepayers within the scheme area by targeted rate. Other funding sources for the capital costs of these schemes are: Ministry of Health Grants and Environment BOP Grants.

### Operating Expenditure

Operating costs incurred in all sewerage schemes discharging to the Urban Waste Water Treatment Plant will be combined in the Rotorua Basin Waste Water Account from 2005/06. These schemes are Rotorua Urban, Eastern Area, Mourea, Okawa Bay, Okere/Otaramarae and Hamurana. Other scheme operation costs will need specific consideration once more details of the capital and operating costs are known.

### Rates and Charges

To be the subject of separate consultation.

### Financial/Technical Planning

Key documents ensuring sound management of the Water Supply are the Annual Plan and the Asset Management Plan, which is available from the Engineering Department of Council.

### Related Documents:

#### Legislation:

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956. (Proposed) Rotorua District Council Water Services and Trade Wastes Bylaw 2004.

#### RDC Files:

85 08 010, 85 08 130

## Refuse Collection Areas

### Rotorua Urban Refuse Collection Area



Rotorua District Council Drawing Number 10196-002

### Description of Area

The Urban area of Rotorua City, including the Eastern and Ngongotaha areas, as shown on RDC Plan No.10196 - 002. Refer also to District Plan Maps 6 – 46, 104, 105, 107 and 108.

### Levels of Service

The following levels of service are those which Council will endeavour to maintain within the Urban Refuse collection area.

Refuse Containers:	Every property will receive twice yearly, a delivery of 26 "official" Council rubbish bags. Properties within the area defined as "CBD" receive 52 bags twice yearly. Additional "official" bags may be purchased from various outlets.
Refuse Collection:	A once-weekly collection of "official" bags only will be made from the road frontage of each serviced property. A twice-weekly collection is made in the CBD. Collection will be made on advertised days prior to 4.30pm.

FUNDING

## Supply Funding

The Rotorua Refuse Collection System is self-funding, with costs and revenues for both Urban and Rural collections identified separately within a single stand-alone refuse account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotorua Urban Refuse Collection: (All including GST)

Targeted Rate for Refuse Collection:

Urban	\$ 56.60 per annum.
Urban CBD	\$113.20 per annum.

## Related Documents

### Legislation

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.

## Rotorua Rural Refuse Collection Area



Rotorua District Council Drawing Number 10196-001

## Description of Area

Various rural areas within the Rotorua District with frontages to roads upon which refuse collection is carried out as shown on RDC plan no. 10196 – 001. Refer also to District Plan maps 101, 102, 104, 105, 106, 108, 111, 114 and 117.

## Levels of Service

The following levels of service are those, which Council will endeavour to maintain within the Urban Refuse collection area.

Refuse Containers:	Every property will receive twice yearly, a delivery of 26 "official" Council rubbish bags. Additional "official" bags may be purchased from various outlets.
Refuse Collection:	A once-weekly collection of "official" bags only will be made from the road frontage of each serviced property. Collection will be made on advertised days prior to 4.30pm.

## Supply Funding

The Rotorua Refuse Collection System is self-funding, with costs and revenues for both Urban and Rural collections identified separately within a single stand-alone refuse account.

## Rates and Charges

At 1 July 2004, the following rates and charges are applicable to the Rotorua Rural Refuse Collection: (All including GST)

Targeted Rate for Refuse Collection:  
Rural \$59.10 per annum.

## Related Documents

### Legislation

Local Government Act 2002, Local Government (Rating) Act 2002, Health Act 1956.