Te Arotake i ngā Whakahaere o Te Waiariki ki Rotorua

Reviewing Management of the Rotorua Geothermal System - Issues and Options snapshot

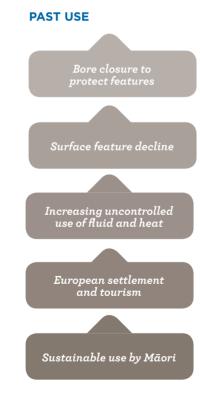
For more detail on these issues and options see Reviewing Management of the Rotorua Geothermal System Discussion Document





Your Views

We want your ideas on the future management of the Rotorua Geothermal System to help our review of the Rotorua Geothermal Regional Plan.



CURRENT MANAGEMENT

Bay of Plenty Regional Council manages the geothermal system under the Resource Management Act 1991 (RMA), using the Regional Policy Statement (RPS) and the Rotorua Geothermal Regional Plan as guidance for resource consents. We must manage the Rotorua Geothermal System sustainably and to protect surface features. The current regional plan does this by requiring reinjection, limiting net loss of water to the system and controlling taking of heat and water near Pohutu Geyser.

IS THE GEOTHERMAL SYSTEM HEALTHY NOW?

Our monitoring and research tells us that the system's health has improved. More reinjection has led to water levels in the aquifer increasing by over two metres. As a result some surface features have recovered well, but not all. We know that at least some of what we are doing now has worked - we need to move forward carefully so we don't repeat the mistakes of the past.

KEY STEPS TO REVIEW THE PLAN

We need to review the regional plan to make sure that it is dealing with the right issues and doing this effectively. Our starting point is checking what we know – what the RPS tells us to do, monitoring trends, where the current plan is working, and where it is not. From there we can identify key issues and options for the new plan.

To start the discussion some possible issues and options have been identified. Some of these options are new, but we have also kept what is already working well. We need your thoughts on whether these options are heading in the right direction.



What are our draft issues and options for management?

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Taking geothermal water and heat from the geothermal system can cause adverse effects on its long term sustainability and on geothermal surface features.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- Continue to make protection of surface features a priority over extractive use
- Manage the system as a whole (i.e. integrated management)
- Continue to require reinjection to maintain (or enhance)
 groundwater levels
- Continue to limit taking of water and heat in some areas
- More efficient use (i.e. best use for most people)

Land uses near geothermal surface features can cause adverse and irreversible effects to these features, and increase the risk of geothermal hazards to people.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- Identifying and mapping all significant geothermal surface features in the Rotorua System
- Controlling land uses like damming, diversion, earthworks and vegetation clearance through rules in the regional plan
- Making sure developments are set back from features through rules and guidelines

The discharge of geothermal water to land, air and water can cause adverse effects on the receiving environment.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- A system wide discharge strategy that addresses discharges in an integrated way
- Managing effects of land soakage (e.g. slumps or subsidence), or discharges to lakes and streams (e.g. contaminants) through resource consents
- Working with the community to reduce cumulative effects of many small discharges.

There are limits to resource use and current allocation of the resource may not reflect the needs, values and aspirations of tangata whenua and the local community.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- Protection of the customary use by tangata whenua of their Ngawha
- Allocation principles that prioritise use to maximise value gained (e.g. efficient uses)
- Better information about who is accessing the resource and for what purpose
- Decision making that better represents the relationship of tangata whenua with ngāwha

Understanding of the geothermal resource, the effects of use and its sustainable limits is incomplete, does not use mātauranga Māori; and creates uncertainty for the management of the resource.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- Integrated whole system understanding of the resource
- Mātauranga Māori to inform management
- Continuing to build our knowledge through monitoring and research (e.g. data on actual use)
- Evidence based decision-making

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• A precautionary approach in allocation (i.e. work within our knowledge constraints)

The drilling and use of geothermal wells can lead to harmful effects on people and the environment.

SOME OPTIONS TO ADDRESS THIS ISSUE ARE:

- Best practice construction, maintenance and abandonment of wells as conditions of consent to keep people and property safe (e.g. from well blow outs)
- Reducing the number of wells by enabling efficient/shared use

Whakahokinga **Whakaaro** Feedback Form

He aha ou whakaaro? What do you think?

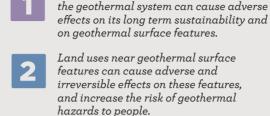
Please return this form to Bay of Plenty Regional Council, Reviewing Management of the Rotorua Geothermal System, PO Box 364, Whakatāne 3158, or email your comments to geothermal@boprc.govt.nz or fill out the online form at www.boprc.govt.nz/geothermal

Your details

Your age:
0-17 years
018-24 years
25-34 years
35-44 years
○ 45-54 years
55-64 years
🔘 65 or older
O I'd rather not say

Other, please specify:

ISSUES AT A GLANCE



Your comments

on geothermal surface features. Land uses near geothermal surface features can cause adverse and

Taking geothermal water and heat from

irreversible effects on these features. and increase the risk of geothermal hazards to people.

The discharge of geothermal water to land air and water can cause adverse effects on the receiving environment.

Q1: What do you value about the Rotorua System?

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The drilling and use of geothermal wells can lead to harmful effects on people and the environment.

Q2: Do you think the key issues that we have identified in this document are the correct issues? in the way we currently manage the system?

Q4: Is there anything you think needs changing

Q5: Is there anything else you'd like to tell us?

Q3: Are any key issues missing?

If you require more space please feel free to attach extra pages.