



» ≈ ANNUAL REPORT

FOR THE YEAR ENDED
31 DECEMBER | 2017



ADVOCATES
FOR THE
TONGARIRO
RIVER

CONTENTS

.....

PAGE »	1	Notice of Annual General Meeting
»	2	Minutes of 14th Annual General Meeting
»	5	President's Report
»	11	Financial Statements

APPENDICES

»	14	1. Advocates achievements to 2017
»	15	2. Simon Stewart PhD Thesis summary
»	17	3. Notes of meeting with Tina Porou
»	19	4. Visit to Rangipo Underground Power Station
»	21	5. Taupo Fishery Regulations
»	22	6. Wilding Pines update
»	23	7. Tectonic deformation of bed of Lake Taupo
»	24	8. Effect of lake bed subsidence
»	25	9. Profile of Advocates
»	29	List of Members
»	30	Nomination Forms

COMMITTEE 2017

.....

Gary Brown »	PRESIDENT
Warren Butterworth »	CO VICE-PRESIDENT
Tim Castle	
Virginia Church	
Sam Coxhead	
Stuart Crosbie »	IMMEDIATE PAST-PRESIDENT
Peter Deakin »	CO-OPTED
Mike Forret »	CO-OPTED
Richard Kemp »	CO VICE-PRESIDENT
John Toogood »	TREASURER
Robert Visscher »	CO-OPTED
Eric Wilson »	SECRETARY
	TREASURER

LIFE MEMBERS

.....

Dr Mark Cosgrove
Heather McDonald
Bob McDonnell
Sylvia Smith
Eric Wilson

COVER



A quality fish of good size and condition was a feature of the 2016-17 season

The Registered Office of
Advocates for the Tongariro
River Incorporated
is c/o 117 Taupahi Road
Turangi 3334

The postal address is
PO Box 335
Turangi 3353

Contact can be made through our website
www.tongariroriver.org.nz

≈ **NOTICE OF ANNUAL GENERAL MEETING**

The sixteenth Annual General Meeting of the Advocates for the Tongariro River Inc. will be held at Tongariro Lodge on Saturday 28 April 2018 at 10.00am. All welcome.

≈ **AGENDA**

The business of the Annual General Meeting will be to:

- record those present and note apologies
- receive the minutes of the fifteenth Annual General Meeting
- receive the President's report
- approve the financial statements
- consider motions of which due notice has been provided. The full rules of the Advocates for the Tongariro River Inc. are printed in the 2004 Annual Report and are also available on the Advocates website www.tongariroriver.org.nz
- appoint an executive committee comprising a President, Vice-President, Secretary, Treasurer and 10 committee members
- consider any other matters.

Guest Speaker: Simon Stewart on his PhD study findings.

≈ MINUTES

Minutes of the Fifteenth Annual Meeting of the Advocates for the Tongariro River, Saturday 27th May 2017, 10.30am at The National Trout Centre, Turangi.

Present

Gary Brown, John Toogood, Richard Kemp, Warren Butterworth, Eric Wilson, Mark Cosgrove, Graeme Nahkies, Heather Macdonald, Jen Shieff.

Apologies

Sam Coxhead, Stuart Crosbie, Tim Castle, Sam Stevenson, Virginia Church.

Moved Graeme Nahkies, *Seconded* John Toogood, “that apologies be accepted.” *Carried.*

Gary welcomed all to the meeting.

Minutes of the 14th Annual Meeting

Moved Warren Butterworth, *Seconded* Richard Kemp, “That the minutes of the 14th Annual meeting held 25th May 2016 be accepted.” *Carried.*

Matters Arising

- PhD Trout Study. An expression of disappointment that this was to be finished in December 2016 and is not now expected until late June 2017.
- Fishery Regulations are defined as Gazetted. The change is that the regulations now need only the consent of the Minister and not an Act of Parliament. Presume the new regulations will be available before the new fishing season 1 July 2017 so that DOC staff have prepared new licenses and advertised changes in regulations.
- Tongariro River Trail. Signalled last AGM some concern. Needed to ensure longevity of TRT and due to age of current committee there was committee concern.

During the year AFTR have agreed to pursue handing the TRT to a suitable organisation.

- Planting in the area of the Hydro Pool. Our involvement was questioned. In 2016 we were approached by Project Tongariro to contribute to a planting programme. We agreed to contribute \$2600 towards purchase of plants from Tongariro Prison. Plants include Red Beech which have been grown from seedlings. Ground has been semi prepared and a second preparation will happen on Monday 29th May. Blackberry will be sprayed in the spring and willow poisoned. With preparation done planting will follow.
- Concern expressed that the committee has no home. Seek a possible home.
- The Treaty of Waitangi, Ngati Tuwharetoa Agreement in Principle requires Parliamentary involvement and is not expected until late 2019.

President's Report

The President's Report was published in the 2016 Annual Report. The Report was taken as read.

Moved Gary Brown, *Seconded* Mark Cosgrove, "That the President's Report be received." *Carried*.

To the President's report Mark Cosgrove:

- Thanked the committee for its decision to have AFTR stay in existence from the special committee meeting held in January 2017.
- Stated that the river margins are scrub with tall trees away from the river edge as they inhibit aquatic growth. New planting at the Hydro should take that into account. Eric to speak with Paul Green re this matter.
- The third issue he raised was one of public education on why Wilding Pines are a significant pest plant. Asked AFTR to consider production of a DVD to assist achieve this.

Moved.

"That the committee consider a DVD as part of an education programme towards eradication of wilding pines."

Moved Mark Cosgrove, *Seconded* Warren Butterworth, *Carried*.

Financial Report

Currently have \$30,109, \$12000 is committed for projects.

Moved Gary Brown, *Seconded* Richard Kemp “That the Finance Report be accepted.”
Carried.

General Business

There was no further business.

Election of Officers

The following committee was elected.

Warren Butterworth took the chair for the election of President and Gary Brown was re-elected.

“That the committee be _____ as for the previous year and that we are able to appoint members during the year”. *Carried.*

President	Gary Brown
Co Vice President	Warren Butterworth
Co Vice President	Richard Kemp
Immediate Past President	Neville Young
Secretary	Eric Wilson
Treasurer	John Toogood
Committee (up to 9)	Tim Castle
	Virginia Church
	Sam Coxhead
	Stuart Crosbie
	Sam Stevenson

There was no other business to consider, the meeting closed at 12.21pm.

≈ PRESIDENT'S REPORT 2017

President Gary Brown reports

Nga mihi manawhenua kaitiaki katoa

Greetings to all our Advocates members. It is my pleasure to report on our last year's activities and achievements

Our committee has met four times since our last AGM. An additional strategy meeting was also held to discuss the current status of our organisation. At that meeting we summarised our achievements (Appendix 1) over the 14 years since we were established, and discussed whether or not there is a need to continue as a watchdog group for the Tongariro River and its environs. The committee were unanimous that we should continue to operate in our current format as there are a number of continuing issues which need "keeping an eye on ". Our committee has also established excellent relationships with iwi, Ngati Tuwharetoa Ngati Turangitukua and stakeholders DOC, Taupo Fishery Advisory Committee, Taupo District Council, Genesis Energy, Mercury Energy, Waikato Regional Council.

Taupo food web study

Simon Stewart has now completed his PhD study and submitted his thesis to Waikato University. Simon has provided us with a summary of his study (see appendix 2). As the fundraisers for this project I believe it has been a very worthwhile exercise and our thanks are due to Simon for his excellent work and communication with us over the last four years. I would also like to place on record our grateful thanks to the fund providers: the Pharazyn Trust, Department Of Conservation and Taupo District Council. We thank the Tuwharetoa Maori Trust Board for their support, Professor David Hamilton of Waikato University and the support team who oversaw the study. I welcome Simon to our meeting today to discuss his findings.

Guest speakers and Rangipo Power Station visit

Tina Porou of Ngati Turangitukua was guest speaker at our first meeting of the year and gave us a valuable insight into the desires of Ngati Turangitukua. (Appendix 3). Michel Dedual of DOC Fishery gave us an update on fishery matters.

Our committee was given a very comprehensive tour of the Rangipo underground Power Station in October 2017 by Genesis Energy, and our thanks are due to Bonnie Lawrence and Cam Speedy for organising and conducting the tour. (Appendix 4).

Tongariro River Trail

At the special meeting in January your committee decided to divest itself of the Tongariro River Trail with the final step being in August this year. The Tongariro River Trail was transferred to Bike Taupo who will continue to operate and maintain the Trail in association with DOC.



Eric Wilson AFTR secretary and the transfer to Alan Vane Bike Taupo Lawyer \$1 consideration.

Special thanks are due to past president Stuart Crosbie and to our secretary Eric Wilson who along with other members of the then committee spent an enormous amount of time and effort to complete the Trail which is now a great asset to the local and wider community. I would also on behalf of the Advocates like to acknowledge the financial support for the Tongariro River Trail by Genesis Energy, Taupo District Council, and the Department of Conservation.

River environment

We have continued to facilitate the removal of wilding pines from the river environs. Our treasurer John Toogood has worked closely with DOC and various other groups on this project and John has provided a report on the current wilding pine situation (see appendix 6) Special thanks are also due to DOC for their ongoing support and

some funding contribution for the work. We were awarded from DOC a grant of \$5000 for removal of wilding pines in the Blue Pool area. Due to the Health and Safety requirements for us on this project we felt we were unable to continue and have declined the grant. However, the DOC Fund team have agreed in principle that Paul Green of Project Tongariro will be able to take up the grant and continue the project.

Historic fishing hut from Taylors Lodge

As a result of a request from John Toogood, the developer of the new subdivision on the site of the old Taylor's Lodge, Collin Elder, has generously donated one of the old fishing huts to the Advocates.



We are hoping to locate the hut at the Trout Centre as an example of accommodation utilised by Tongariro anglers in years gone by. The building is in temporary storage.

Taupo fishery

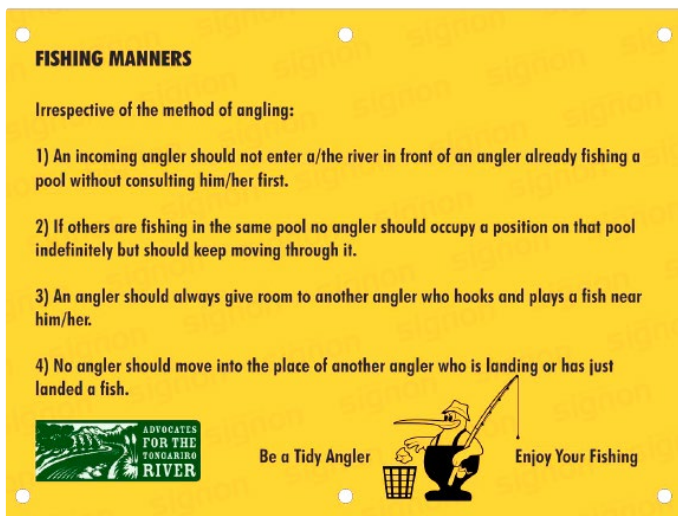
It is good to note the great improvement in fish quality and size during the 2017 year. In our discussions with DOC scientists it is interesting to note that they are recommending that when spent fish (slabs) are caught they are not returned to the water to help reduce pressure on the Taupo food chain viz: there is currently more fish mass than can be sustained by the food supply (plant plankton, zoo plankton, smelt).

Fishing regulations

Two of our committee Richard Kemp and Eric Wilson attend the regular meetings of the Taupo Fishery advisory Committee (TFAC). The role of TFAC is determined as part of the Conservation Act. The role is included with this report (see appendix 5) TFAC played a key role in the new regulations. It is good to see the implementation of these regulations regarding catch limits & size This is a positive move resulting from a change to the regulations allowing DOC fishery to assess the fishery on a year by year basis and to make changes annually as deemed prudent with the Minister's approval, but without the need to refer proposed changes to Parliament which was a long time process. Refer to document "Exploring future opportunities for the Taupo fishery" by DOC published in 2013 in our website library.

Fishing etiquette

As flagged in my last year's annual report our committee have now arranged in association with the Department of Conservation to erect new signs at strategic locations on the river to advise anglers of the long recognized acceptable fishing etiquette so that all anglers can enjoy their fishing experience. The signs were the responsibility of the Advocates and thanks are due to DOC for putting the signs up.



While some will not read the signage they are important as a source document to state the accepted behavior.

Taupo lake levels

In recent years the Advocates have expressed concern regarding the management of Taupo lake levels by Mighty River Power (now Mercury Energy). During recent years high lake levels with strong winds have resulted in severe erosion of the lake shore in several areas (particularly Kuratau, and Tauranga Taupo) and the inability of the river to maintain a deep channel into the lake due to deposition at the mouth. It has become evident from recent research by Geological & Nuclear sciences (GNS) that the land in the Waihi bay / Kuratau area has been subject to subsidence (Appendix 7) which gives the appearance that the lake is being held at a higher level than the agreed maximum of 357.25 above sea level. The Advocates now acknowledge that there are tectonic forces which must be taken into account when assessing the effective management of the lake (Ref. Professor Paul Williams in his book NZ Landscapes in which he summarises the work carried out by GNS writes “One of the consequences of this deformation is that uplift gives the impression that the lake level is falling because the lake edge water-line retreats, whereas subsidence gives quite the opposite impression; Lake level appears to be rising. Thus at Tokaanu, the lake level appears to have risen about 150mm (including 30-40mm since 1979), but in fact the shoreline migration is mainly attributable to sinking of the lake bed (although up to 10mm of the change could be due to lake control gate management)”. (Appendix 8).

Health of the Taupo waterways

It is vital that we continue to maintain a watching vigil with respect to the potential for toxic algal bloom, lake snot, didymo and other aquatic dangers. In this respect it is good to see the boat wash down facilities at the various Taupo boat ramps; but it is disappointing to see the extent of ongoing vandalism to these facilities and the use of this facility to wash down vehicles where the dirt washes back into the lake.

Financial

Treasurer John Toogood reports that our finances are in good order. Members' contributions are a vital part of our annual income. John has provided an end of year financial statement.

Committee

During the year we were sorry to lose the services of Sam Stevenson. We were pleased to co-opt and welcome Peter Deakin, Mike Forret and Robert Visscher to the committee.

I am stepping down as Chairperson this year but will remain as a committee member. I have enjoyed my involvement as Chairperson and working with the committee and I believe the Advocates for the Tongariro River is in good heart and provides a very worthwhile service to members and the wider community. In closing I wish our Joint Chairpersons well in the coming years.



Gary Brown

President

March 2017

≈ FINANCIAL STATEMENTS

For the 12-month period ended 31 December 2017

Income and Expenditure

		2017 \$	2016 \$
Receipts			
<i>Income</i>	Subscriptions	2,515	
	Donations	1,995	
		4,510	3,510
	Interest	398	
	Refund/reports	276	
		5,184	4,033
<i>Projects/Grants</i>	Pharazyn Trust	5,000	5,000
		10,184	9,033
Outgoings			
<i>Operating expenses</i>	Admin/general expenses	448	
	Promotion	698	
	AGM, report, etc	874	
	Miscellaneous/subscriptions	75	
		2,095	1,819
<i>Projects</i>	Etiquette Signs/Taylor's Lodge Cabin	1,881	
		3,976	21,419
Excess outgoings/receipts		6,208	(12,386)

Statement of financial position

As at 31 December 2017

		2017 \$	2016 \$
Current assets			
<i>Bank accounts</i>	Current account	890	
	Online call account	32,019	
Total assets		32,909	26,701
Total liabilities	Funds committed to projects (see notes below)	–	
Nett assets		32,909	26,701
	Opening balance 1 January 2017	26,701	
	Excess expenditure/receipts	6,208	
Nett Funds before commitments as noted below		32,909	26,701

Notes to Accounts

Funds committed for projects	Projects/Environment Reserves	14,750	
	Planting – Bal WCEET Grant	1,781	
	Beech trees – Project Tongariro	819	
		17,350	14,131
Net retained unassigned funds		15,559	12,570

Subscriptions and donations There was a nett increase over the last year of \$1,000 to \$4,510

Tongariro River Trail All assets were passed on to Bike Taupo Inc during the year

≈ **NOTES TO THE FINANCIAL STATEMENTS**

For the period ended 31 December 2015


Statement of accounting policies

Reporting entity

The Advocates for the Tongariro River Society Inc. is incorporated under the Incorporated Societies Act 1908. The financial statements have been prepared in accordance with generally accepted accounting practice. The accounting principles record historical cost. Subscriptions are recorded on a cash-received basis. There have been no overall changes in accounting policies. All policies have been applied on bases consistent with those used in the previous year.

Preparation of accounts

The accounts have been produced on information available to the Treasurer and have been reviewed and verified by John Austad, a former Chartered Accountant.



Gary Brown

President

February 2018



John Toogood

Treasurer

February 2018

≈ **APPENDIX 1 » A SHORT LIST OF AFTR ACHIEVEMENTS TO 31.12.2017**

- Made Tongariro River Trail a reality
- The Tongariro River Integrated Catchment Management Plan (TRICMP) presented to and accepted by Waikato Regional Council Taupo Zone committee for implementation.
- Wilding Pines and Willow issue
- Programme of returning the river banks to natural vegetation
- Carp Farm issue brought to public attention
- Defined and sought finance for PhD Study of the Lake Taupo Food Web.
- Submitted on Lake Level and proposed an alternative operating scheme.
- An active Didymo campaign and continue with Awareness of aquatic and plant pests.
- Made submissions on activity concerning the Tongariro River Catchment
- A presence on committees dealing with the Tongariro River
- Established credibility with iwi and stakeholders
- Project value achieved in order of \$500,000.

≈ APPENDIX 2 » SIMON STEWART PHD THESIS SUMMARY

My thesis examined seasonal patterns in the ecology of Lake Taupō. More specifically, I quantified how: i) physical conditions (e.g., water column stratification and over-turn); ii) nutrient cycling which determines algae growth within the lake; and, iii) the dynamics of the food web supporting the trout fishery all interact over an annual cycle. The goal of this research was to gain better understanding of the processes that affect trout population dynamics in the lake with the expectation that this knowledge would help develop fisheries management.

The research demonstrated that Lake Taupō is extremely seasonally dynamic. This dynamism driven by water column mixing during winter when nutrients that accumulate in the bottom waters over the summer period are entrained into the water column. This is the period when the lake is most productive. Subsequently, winter production drives an annual peak in zooplankton biomass; the microscopic grazers that feed on algae. The increase in zooplankton drives growth in smelt and subsequently trout. Longer periods of mixing (i.e., years with colder winters) are more productive and support greater smelt and trout growth and survival.

At the onset of summer, the lake stratifies, nutrients begin to settle out and the algae biomass declines as the surface waters become nutrient deplete. Zooplankton biomass also declines during summer as their food supply diminishes and trout and smelt switch their diets to eating prey in the shallow waters around the lake shore. In a large deep lake with steep shore lines such as Taupō this seasonal switch is extremely important. Shallow water habitat constitutes less than 10% of the algae and grazing insects that fuel fish diets. Trout and, in particular, smelt can exert extensive pressure in near-shore species when in high abundance and their diet is over 90% reliant on near-shore resources. A prolonged period of summer stratification, as typical during warm El Niño years, could result in food resource depletion and collapse of smelt and trout. These dynamics help explain the rapid decline in trout following 2005 at which point winter mixing reduced after being very strong for several preceding years.

The seasonal and inter-annual changes in fish biomass described above can have flow-on effects for nutrient availability in the deep water of the lake during summer time. During summer stratification, when nutrient availability in the mid-lake surface

waters are low, fish biomass retains a substantial proportion of nutrients in the surface water. Fish excretion can become a significant source of nutrients supporting algae growth. A modelling analysis, which simulated water transport within the lake as well as all other major nutrient sources, demonstrated that Smelt excretion was the greatest source of nutrients for mid-lake algae during December to February. Because of this seasonally dependent positive relationship between fish biomass and mid-lake nutrient availability, high fish biomass may be more resilient to seasonal variability in resources as long as the duration of stratification is not too extensive.

These findings, taken together, provide the fundamental information needed to develop a trout population growth model. An initial model where growth and survival of trout and smelt were adjusted to vary with duration of winter mixing provided good agreement with recorded trout biomass since 1975. Further development of this model holds considerable promise for using annual water-mixing records to forecast trout population trends for the following year(s). This approach may enable adaptive fisheries management (e.g., changing bag limits) to dampen fisheries declines. Furthermore, my research identifies critical areas of the lake, namely the near-shore zone, where management intervention would best enhance the resilience of the Lake Taupō food web. Such interventions could include habitat enhancement (e.g., addition of rocks, sunken logs or restoring native macrophyte communities) to support increased production of aquatic insect prey.

≈ **APPENDIX 3 » MEETING WITH TINA POROU OF CHAIRPERSON OF NGATI
TURANGITUKUA ENVIRONMET COMMITTEE** *Committee Meeting of 25 March 2017*

Tina introduced to committee members and then introduced herself and commented:

- Environment Planner for Contact Energy until 1 month ago and has now started her own planning company.
- Has work around NZ and overseas.
- Ngati Turangitukua extends from Hatepe in the North to Rangipo in the South. There are 5 Hapu within the boundaries of Ngati Turangitukua.
- 65% of the land remains with Ngati Tuwharetoa as the lack of selenium and cobalt meant it was undesirable to Europeans until the advent of cobalt and selenium added to fertiliser in the 1940's.
- Before that the chief was keen to keep lands for Ngati Tuwharetoa and had much of the land converted to surveyed titles.
- The tribe has a \$3Billion asset.
- Ngati Tuwharetoa is an owner of Sealord with a 20% quota despite the small seafront at Kawerau which was the original area of Ngati Tuwharetoa.
- Any discussions in the lower river must involve the landowners. If dredging occurs the gravel belongs to the riverbed owner.
- Feel that they are only now being able to sit at the table with WRC to derive a plan which they want to lead.
- Stated in response to increased access that the people have given enough and it was no longer an option on private land.
- They are close to working with WRC and start action on the plan.
- Don't want to be reactionary and are developing an Integrated Management Plan for the river from SH1 Bridge to the river mouth. This will be the trial to be extended to other sectors of the river when successful.
- The problem is not money but people to do the work paid or unpaid.
- Want riparian management.
- To keep the traditional knowledge of fishing for native species while acknowledging the value of the trout fishery.

- Want to manage the pests, eradicate Wilding pines and willows and re-establish the native vegetation.
- Sees frogs as super sensitive creatures to recognise the health of the river and wants frogs returned. Frogs have been eliminated due to poisoning programmes.
- Happy to share Lidar mapping and the strategy management plan.
- The removal of willows in the lower river was followed with planting of native vegetation which was unsuccessful.
- Grateful to the Advocates for their work with a shared taonga.
- Will arrange a site visit of the lower river before winter to discuss the issues and solutions.
- 2017 is the Centenary year to be celebrated at Labour Weekend and Tina would welcome the presence of the Advocates.

Richard on behalf of the committee spoke of support for the Hapu and that we are in sympathy with their desires to unblock the river, drain the land, and the importance of water quality. (Tina had explained spillage of sewage into both the river and the lake in recent heavy rain and opposed consents being granted as the filtered water under normal operation is being put into the lake). Richard also spoke of the flood channel between the Bain and Reed Pools and asked for support to have the river returned to its normal course. This was agreed but was not the major concern at this time.

Motion: Tina was thanked and we look forward to working closely with Ngati Turangitukua.

Proposed: Virginia, *Seconded:* Gary. *Carried.*

≈ APPENDIX 4 » A PHOTOGRAPHIC VIEW OF THE RANGIPO UNDERGROUND POWER STATION



Instruction



Underground



One of the turbines



The main gallery

≈ **APPENDIX 5 » SECTIONS 30-31 THE TAUPO FISHERY REGULATIONS 2004**
TAUPO FISHERY ADVISORY COMMITTEE

30 Taupo Advisory Committee continued:

- 1** The regulation continues the advisory user group known as the Taupo Fishery Advisory Committee and established by the Minister under the Taupo Fishing Regulations 1984.
- 2** The Taupo Fishery Advisory Committee consists of the following members:
 - a** 8 members appointed by the Minister from persons nominated by the organisations specified in Schedule 3:
 - b** 1 member to represent the Tuwharetoa Maori Trust Board and to be appointed by the Minister on advice from the Board:
 - c** 1 member appointed by the Minister to represent national angling interests:
 - d** 1 member to represent the New Zealand Fish and Game Council and to be appointed by the Minister on advice from the Council:
 - e** 1 member appointed by the Minister to represent the appropriate Conservator of the Department.
- 3** The members appointed under subclause (2)(a), (b) and (c) have voting rights at meetings of the Committee, and the other members of the Committee are entitled to speak at meetings of the Committee but are not entitled to vote on any question.

31 Functions of the Committee – The functions of the Committee are:

- a** to advocate Taupo sport fishing interests:
- b** to facilitate communication between the Department and anglers:
- c** to keep anglers informed on matters affecting their interests:
- d** to foster ethical standards of angling behaviour:
- e** to consider and advise the Department on freshwater and sport fishing matters within the Taupo District:
- f** to make any representations that it sees fit to the Minister, or to the Department or any other government agency or other organisation, on matters affecting the Taupo fishery, including national and regional policy statements, management strategies, and management plans:
- g** to liaise with the New Zealand Fish and Game Council on matters of mutual interest relating to sports fish.

≈ **APPENDIX 6 » WILDING PINES AND WILLOW CONTROL ON THE TONGARIRO – 2017**

Last year, 2017, as you may recall, we were awarded a small grant of \$5000 from the Department of Conservation Community Fund. We had put in an application for \$10,000 as a seed fund for tackling wilding pines and willows on the river flats and margins in conjunction with Waikato Regional Council and DOC. Most of this round of grants were reduced so we were happy to receive the \$5000 as that was all we required.

When the time came to sign the final Deed of Grant we found that the conditions applying were so onerous, particularly with regard to Health and Safety commitments, regardless of the fact that our intended contractor was fully covered by his own H&S policy and plan, and we had no choice but to decline the grant.

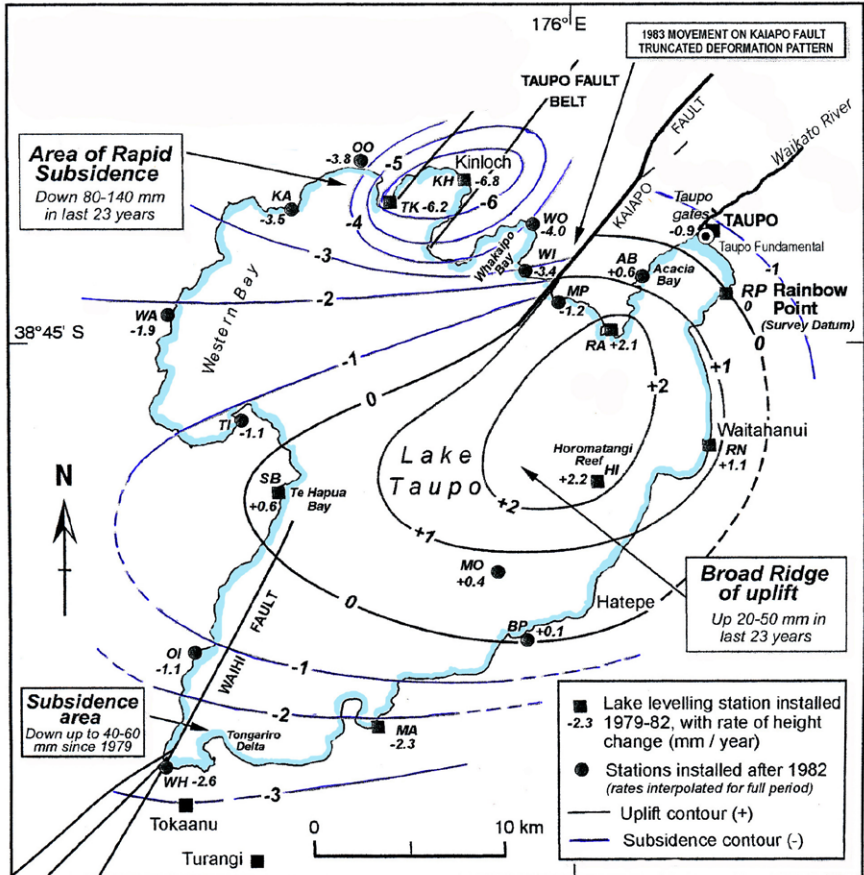
Subsequent to this, Paul Green of Project Tongariro and ex-head of DOC for the Taupo Region is now hoping to take over the grant and carry out wilding pines and willow eradication on an area of DOC Reserve that Ian McNickle of DOC, Turangi, has identified between the Boulder Reach Pool and the Blue Pool, so we are hoping that the grant will not be lost.

It is worth mentioning here that, since we applied for this grant, the regional council, on behalf of local Iwi, the river bed owners, has indicated it will be undertaking pine and willow eradication work on the actual river flats upstream of the Hydro Pool as part of its river management programme.

John Toogood

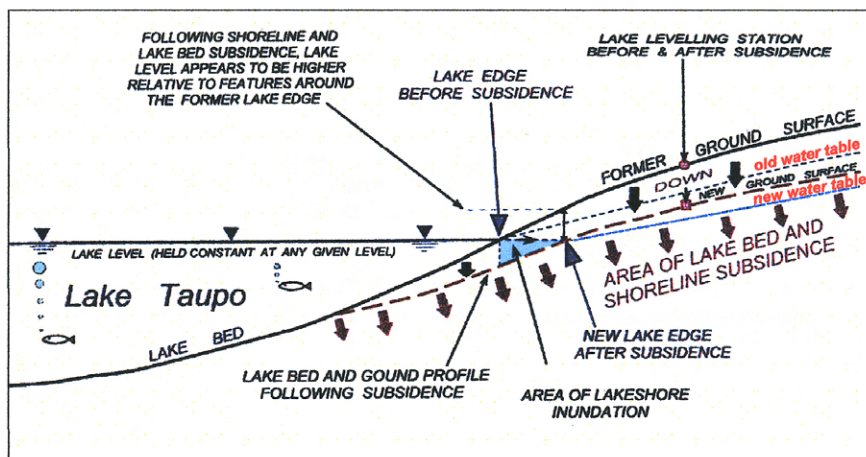
February 2018

≈ APPENDIX 7 » TECTONIC DEFORMATION OF BED OF LAKE TAUPO



Original source: Hancox et al (2001) GNS Client Report 1999/143.

≈ APPENDIX 8 » EFFECT OF LAKE BED SUBSIDENCE



Original source: Hancox et al (2001) GNS Client Report 1999/143.

≈ APPENDIX 9 » PROFILE OF ADVOCATES FOR THE TONGARIRO RIVER COMMITTEE FOR 2017

2017 Office Holders



Gary Brown – *President, Committee member since 2011*

Gary's family has an association that has lasted over a half century with the Lake Taupo fishery and he has had a life-long interest in hunting and fishing. Gary's prime focus as a committee member is therefore the state of the fishery and monitoring the effectiveness of the Department of Conservation's Taupo Sports Fishery Plan.

Gary lives in New Plymouth and is a retired architect.



Tim Castle – *Committee member 2016*

Tim, a Wellington Barrister was elected to the committee in 2016. His home is in Wellington but he has a keen interest in the area and a holiday home for some years in Waitetoko.

Tim has studied Te Reo Maori and culture since the 1990's and has worked closely with iwi through his legal work.

He does not profess to being more than a keen learner angler.



Warren Butterworth – *Committee member since 2014
Vice President from 2015*

Warren is a lawyer and part time farmer. He has fished the Tongariro and surrounding streams for more than 40 years and been a member of TALTAC for most of that time.

Warren resides in Auckland and is a board member of two substantial charitable trusts and of many private companies.



Virginia Church – *Committee member since 2011*
Acting Secretary from October-December 2013

Virginia's 2001 Petition to Parliament on the plight of the Tongariro, was supported by 602 signatures. This, and the Submission based on that Petition that was presented in 2002 to the Parliamentary Select Committee for Local Government and the Environment, was the catalyst for formation of the Advocates as an incorporated society.

After living in Australia, Virginia and her family have returned to Turangi where they have very close hapu associations with local iwi.



Sam Coxhead – *Committee member since 2014*

Sam has been coming to Turangi for the last 20 odd years. He is a keen angler, who relishes any time he can spend on the river.

Sam and his large young family now have a home in Turangi. It has become more important for him to help with the responsibilities of looking after the river.

Sam wants to help ensure that the fishery, and river environment as a whole, is looked after so the future generations are able to enjoy all it has to offer.



Stuart Crosbie – *Immediate Past President*
President 2009-2012; Committee member for seven years

Stuart is the driving force behind the Advocate's Integrated Catchment Management Plan framework and the Advocate's statistical analyses of lake levels and river flow rate data spanning the past century. He was an Advocate's appointed founding director of the Tongariro River Trail (TRT) Ltd and in that role maintained a policy overview of the trail's development.

Stuart now lives in Taupo and is a director of a number of charitable and not-for-profit entities.



Peter Deakin – *Co-opted member 2017*

Early life in British Merchant Navy. His interest in rivers and the environment saw him join an angling club as a youngster. Spent nine years in the British Merchant Marine. Then spent the next 33 years as a commercial fisherman. He started the Wellington Trawlerman's Association.

Has retired to Turangi as owner of the Creel Lodge. Is now able to indulge two passions; Fly fishing particularly Brown Trout, and looking after the River environment.

“When people pull together it is amazing what they can achieve.”



Mike Forret – *Co-opted member 2017*

Mike Forret has been a keen angler for more than twenty years. He enjoys coming to the Tongariro and Turangi whenever he can and is very supportive of the Advocates aims.

Mike retired from the University of Waikato in 2016 where he worked in science and technology education for over twenty years. His main involvement with the advocates has been provision, maintenance and support of the Advocates' website and membership database through his web services company iConcept Enterprises Ltd.



Richard Kemp – *Committee member since 2002*

A Wellingtonian, Richard has been coming to Turangi to fish all his life – as has his father before him and his son after him. He has a passion for the fishery and a particular interest in its sustainability.

Richard served as Vice-President from 2006-2010 and has been the Advocate's legal advisor throughout. He is the current Advocate's representative on the Taupo Fishery Advisory Committee.

As a lawyer, Richard's networks have been invaluable in helping to profile the Advocates and successfully source funds from philanthropic sources.



John Toogood – *Committee member since 2005, Treasurer*

John and his family have been coming to the area and enjoying the Tongariro for over five decades. A keen environmentalist at heart, John has led the Advocates' campaign to 'bring back the bush' and rid the river environs of wilding pines and other weeds. His work, supported by Eric Wilson and former Committee member Marja ter Haar, was recognised in 2010 when the Advocates received Environment Waikato's Weedbusters' Award.

John runs his own business in Wellington and his commercial skills are of benefit to the Advocates also, especially with regards to marketing.



Robert Visscher – *Co-opted member 2017*

Robert Visscher is a keen flyfisher and outdoorsman and has been fishing the Tongariro for many years. After a career in sales and general management, Robert and his wife moved from Auckland to Turangi in 2017. Currently Robert is a part time IT consultant and he spends most of his spare time on or around the Tongariro River. "Don't talk about the river but talk to the river". And in order to do this, I need to understand the river and its language, only then can I become a worthy advocate for the Tongariro River.



Eric Wilson – *Secretary*

Secretary for past 12 years and Treasurer for past ten years

Eric is a local government appointee to Waikato Regional Council's Lake Taupo Liaison Sub-Committee, an Advocate's appointed director of the TRT Ltd and a key local liaison person involved in just about everything.

Without Eric's sustained dedication and extensive commitment to Advocate matters, our society simply would not survive.

Eric has been a local Turangi resident for the past 40 years and is a former Principal of Tongariro High School.

≈ LIST OF MEMBERS

Avery	Bill	Fransham	Mike	Rodger	Ian
Bartle	Murray	Fullerton Smith	David	Rodger	Greta
Batson	Brian	Godkin	Wayne	Rodger	Lola
Beasley	Antony	Godkin	Wendy	Rodger	Molly
Bingham	Peter	Grace	Andrew	Ross	Carol
Blackbeard	Rob	Grant	David	Ross	Grace
Boddington	Luke	Hamilton	Ian	Ross	Jonathon
Boddington	Pianika	Hancox	Rod	Ross	Miles
Brace	Robert	Hancox	Margaret	Scott	Cher
Brennan	Paul	Hayes	Carter	Sherbourne	Mary
Brown	Gary	Hazelwood	Rob W	Shieff	Jenny
Brown	Marie	Hodder	Marie	Shieff	June
Buckley	Rob	Hodder	Selwyn	Shieff	Sarah
Butterworth	Warren	Hocking	Lesly	Short	Murray
Canziani	Peter	Horton	Warwick	Short	Niwa
Canziani	Monique	Hughes	Mike	Seux	Teresa
Calder	Alex	Hughes	Gail	Small	Neil
Castle	Tim	Jamieson	Murray	Small	Rosemary
Chapman	Barry	Kemp	Richard	Smith	Barry
Chappell	Anna	Kemp	Honor	Smith	Catherine
Chappell	Jacob	Keucke	Alisdair	Smith	Margaret
Chappell	Thomas	Kirk	Allan	Smith	Peter
Church	Hemi	Kyle	Frankie	Smith	Sylvia
Church	Liam	Kyle	Kim	Stevenson	Anna
Church	Jock	Kyle	Stephen	Stevenson	Dan
Church	Virginia	Lean	Peter	Stevenson	Prue
Cosgrove	Alison	Macdonald	Heather	Stevenson	Sally
Cosgrove	Mark	MacDonnell	Robert	Sullivan	Bernie
Coxhead	Sam	McCallum	John	Sutton	Annabel
Coxhead	Katie	McCallum	Elizabeth	Sutton	Terry
Crosbie	Stuart	McGregor	Craig	Taylor	Philip
Crosbie	Jacquie	McGregor	Rod	terHaar	Marja
Cunnack	Renny	McHattie	Ali	Toogood	John
Dandy	Valerie	McHattie	David	Toogood	Susie
Deakin	Peter	McLeod	Anne	Toy	Max
Dickson	Steve	McNab	Alasdair	Tudor	Ariel
Duckworth	Heather	Marshall	Andy	Tudor	Luke
Duckworth	Bob	Marshall	Jack	Tudor	Paul
Duff	Graeme	Mills	Jim	Williams	Peter
Duff	Marion	Nahkies	Graeme	Williams	Paul
Elliot	Helen	Nahkies	Natasha	Williams	Gwynne
Fair	Bill	Parlane	Maurice	Wilson	Alex
Frank	Tricia	Pritt	Christine	Wilson	Eric
Forret	Joan	Proctor	Julian	Wilson	Lorraine
Forret	Mike	Rafting NZ		Wilson	Peter
Fransham	Benjamin	Ramsay	Nettie	Wilson	Sam
Fransham	Helen	Rickards	Adrian	Wilson	Vergne
Fransham	Jessica	Rickards	Renee		

15 un-named

≈ COMMITTEE NOMINATION FORM

One form per nominee

___/___/2018

I nominate: _____

Signed by nominee: _____

Nominator (signed): _____

Secondar (signed): _____

(Tick position nominated)

- ☐ President
☐ Vice-President
☐ Committee member

Either

- ☐ Secretary
☐ Treasurer

Or

- ☐ Secretary/Treasurer

President, Vice-President, Secretary/Treasurer and up to 11 committee members + Immediate Past-President (15) or
President, Vice-President, Secretary, Treasurer and up to 10 committee members + Immediate Past-President (15).

One form per nominee

___/___/2018

I nominate: _____

Signed by nominee: _____

Nominator (signed): _____

Secondar (signed): _____

(Tick position nominated)

- ☐ President
☐ Vice-President
☐ Committee member

Either

- ☐ Secretary
☐ Treasurer

Or

- ☐ Secretary/Treasurer

President, Vice-President, Secretary/Treasurer and up to 11 committee members + Immediate Past-President (15) or
President, Vice-President, Secretary, Treasurer and up to 10 committee members + Immediate Past-President (15).

One form per nominee

___/___/2018

I nominate: _____

Signed by nominee: _____

Nominator (signed): _____

Secondar (signed): _____

(Tick position nominated)

- ☐ President
☐ Vice-President
☐ Committee member

Either

- ☐ Secretary
☐ Treasurer

Or

- ☐ Secretary/Treasurer

President, Vice-President, Secretary/Treasurer and up to 11 committee members + Immediate Past-President (15) or
President, Vice-President, Secretary, Treasurer and up to 10 committee members + Immediate Past-President (15).

≈ **NOTES**

**PROTECT NEW ZEALAND'S
GREATEST RIVER & TROUT FISHERY
THE MIGHTY TONGARIRO**

WWW.TONGARIORIVER.ORG.NZ