

## **APPENDIX 4. SOME EXAMPLES OF PREVIOUS SUBMISSIONS TO FRANKLIN DISTRICT COUNCIL AND WAIKATO DISTRICT COUNCIL ON GEOHERITAGE PROTECTION**

### **1. Extract from GSNZ Submission on proposed Franklin District Plan 28 June 1994**

**“We strongly support** your concept of a conservation management zone - it would be particularly appropriate for protecting the integrity of some of the larger natural landform and landscape features of significance while still allowing normal farming to continue, but with rules preventing the features (e.g. Pukekawa, Pukekohe East crater, Kellyville crater. Miranda chenier plain) from being compromised by activities such as the construction of additional farm roads, from ploughing, from exotic forest plantings and from intense subdivision.”

## 2. Copy of Letter to Franklin District Planners from GSNZ 2001

c/o Department of Geology,  
University of Auckland,  
Private Bag 92 019,  
Auckland  
Aug 10 2001

Planning Department,  
Franklin District Council,  
Private Bag 5  
Pukekohe

Dear Sir/Madam,

### **PROTECTED STATUS OF THE OUTSTANDING VOLCANOES OF FRANKLIN DISTRICT**

On behalf of the Geological Society of New Zealand, I wish to enquire whether the outstanding basaltic scoria cones and explosion craters of the Franklin District are identified in your District Scheme and if so, which, and what level of planning protection does that give them. Have you adopted your proposed Conservation Management zone that includes them ?

As you may know, similar features in the Auckland Volcanic Field have suffered greatly over the last 150 years with over half the scoria cones lost to quarrying and all but two being partly damaged by quarrying. Aucklanders now moan the loss but also cherish the volcanoes that are left and now enjoy protection in a wonderful network of local authority Scenic and Recreational reserves.

Local sources of aggregate for Auckland city are now running low and as you would be aware, quarrying companies are now looking further afield, particularly to the basaltic resources of the Franklin Volcanic Field (e.g. Winstone's Pokeno quarrying application on the Bush Rd volcano). The lava flow resources of Franklin will certainly be a major source of aggregate for Auckland in the future - but we are keen to ensure that expansion of activities into this area does not compromise the heritage values of the most outstanding volcanic features - this can easily be achieved through proper zoning now.

Over 80 volcanic centres are recognised in the 1.5-0.5 million year old Franklin Volcanic Field, but many of their volcanic landforms are eroded and degraded and hard to recognise. It is therefore important to legally identify the 10% of volcanoes that still have well-formed and easily recognised, high heritage value landforms. These include Pukekawa scoria cones, Onepoto scoria cone, Pokeno scoria cone, Pukeotahinga scoria cone, Onewhero Tuff Ring, East Pukekohe Explosion Crater, Kellyville Tuff Ring, Te Kohanga Tuff Ring and Puketutu Tuff Ring.

We look forward to hearing of the measures adopted by Franklin District to ensure that your outstanding volcanic landforms (RMA Clause 6B) will be protected from quarrying and subdivision for future generations to enjoy as open spaces and eventually as public reserves like the remaining volcanoes of Auckland, North Shore and Manukau Cities.

Many thanks for your time, Yours sincerely,

Dr Bruce W. Hayward,  
Convenor, Geological Society of New Zealand, Geological Reserves Subcommittee

### 3. Copy of GSNZ Response to request for help to protect geological features in Franklin, 2002.



## GEOLOGICAL SOCIETY OF NEW ZEALAND

c/- Geology Department  
Auckland University  
PB 92019  
AUCKLAND

Vance Hodgson,  
Resource Management – Policy,  
Franklin District Council,  
Private Bag 5  
Pukekohe  
Aug 12 2002

Dear Vance,

#### PROTECTED STATUS OF GEOLOGICAL FEATURES IN FRANKLIN DISTRICT

Thank you for your letter of 22 Aug 2001 and the accompanying documentation from your District Plan, which was reassuring that many of the most important earth science heritage features in Franklin are identified and protected.

You conclude by suggesting that this may be an opportune time to review this part of your conservation schedule to ensure it is up to date. We would be happy to assist and make suggestions about where your schedule is weak or deficient and where it is strong.

Your schedule of geological features is based on our Geopreservation Inventory and in listing all sites of international and national significance in the inventory, it provides good coverage of the outstanding geological heritage features, although a more complete listing of the best representative examples of the diversity of rock exposures that collectively document the history of your region could be considered.

It is in the landform area that we would have some concerns that there are still some prominent and regionally outstanding features that seem to be missing from your schedule, and could be damaged or compromised by inappropriate development or use.

These fall into four categories:

1. Landforms of the Franklin Volcanic Field.
2. Karst landforms and landscape of southern Franklin District.
3. Other miscellaneous landform features of Franklin.
4. Best representative examples of the diversity of Franklin's geological history.

1. Franklin Volcanic Field. This is probably the most pressing area for upgrading, because the scoria cones are coming under increasing pressure for quarrying, as Auckland's scoria resources are exhausted or locked up in heritage reserves. The Franklin Volcanic Field has been well studied and is well known to geologists. 82 volcanic centres are recognised, with the majority being somewhat degraded and obscure because of erosion and weathering. Ten years ago we undertook a brief survey of the state of preservation and recognition of all the volcanic landforms in the field. We concluded that c. 10 of the younger scoria cones and explosion craters were in good condition and could easily be recognised and appreciated by the general public. Those that were given national significance ratings (1 scoria cone, 3 tuff rings) are included in your schedule.

Probably the most prominent of the scoria cones is Pukekawa, which maybe warrants greater protection than all others, as we see it as having the potential to be a cherished park in the future, like one of Auckland city's adored volcanic parks. This will only be possible if its current condition is not compromised by subdivision, or construction of dwellings or buildings on its slopes or top, or by commercial forestry.

In addition to the 4 volcanoes given national significance ratings, we submit that there are another 4 prominent scoria cones and one tuff ring that have been given regional significance that are outstanding landforms that should be listed in your schedule. These are:

Onepoto volcanic cone

Pukeotahinga scoria cone

Puketutu scoria cone

Pokeno scoria cone

Te Kohanga tuff ring

Several other regionally significant volcano landforms perhaps need further field assessment of their prominence before being considered for the schedule.

2. Karst. We note that no limestone karst areas have yet been identified in your schedule nor in our Geopreservation Inventory within your district. The SW of Franklin District has some areas of quite outstanding karst landforms and landscapes that need to be assessed and the best representative and most readily appreciated (near roads) area(s) should be identified for scheduling to protect them from inappropriate damaging activities. The coast road south of Port Waikato for example has the potential to be a major scenic tourist route because of the spectacular karst country it traverses.

3. Other outstanding landforms. In other areas of Franklin a landform/landscape assessment could be undertaken to identify outstanding features or landscapes that the region may wish to retain in their natural state. These may not be of national significance but still have considerable value to the local community. Examples include Waitangi Falls, Mauku Falls, crest of Manukau South Head etc.

4. Other important representative geological exposures. To produce a robust and comprehensive listing would require some work with maps of the boundaries of Franklin District and an assessment of the overall geology of your district. I suspect that the older Mesozoic rocks are adequately covered by the scheduled national importance sites, plus the Hunua Ranges. The Cenozoic and Quaternary history is not well covered however, with only one site scheduled (Kaawa Creek-Ngatatura Bay). Another 5-10 sites would need to be identified to give a more complete coverage – some are already in the inventory, but others are not.

I hope this letter is of some assistance. We congratulate you on your existing Plan and urge you to consider a plan change to at least include Onepoto and Pukeotahinga cones in your schedule, to identify karst protection zones and consider whether Pukekawa cone needs more protection as a potential future park – a potential jewel in Franklin District's park network – perhaps initially as a privately-owned farm park, with rates relief in exchange for public access and heritage protection.

Yours sincerely,

Bruce Hayward

Convenor, Geological Society of NZ Geological Reserves Subcommittee and Geopreservation Inventory Project

## **5. Extract from GSNZ submission on Franklin District Heritage Strategy Dec 14 2007**

“You would be aware of the magnificent volcano reserves in North Shore, Auckland and Manukau Cities that are enjoyed and cherished by their citizens. All these cone and crater reserves are in the Auckland Volcanic Field which has 48 volcanoes. The Franklin or South Auckland Volcanic Field has about 80 volcanoes. Unfortunately as far as we can ascertain not a single volcano in your district has public reserve status. We submit that your District should be looking for the future and setting in place plans to reserve at least one to become the “One Tree Hill” or “Mt Victoria” of Franklin District. Your volcanoes are older and mostly more eroded than Auckland’s but several of the younger ones are of similar iconic shape to Auckland’s, and we would single out Pukekawa as the volcano of your district that desperately needs some form of planning protection NOW to prevent major damage or compromise through subdivision, roading and building construction, so that some time in the future it can become a jewel in the crown of your District’s reserve network. We strongly urge your council to start talking to the owners now about the future of the whole of Pukekawa scoria cone (already scheduled as an outstanding natural feature in your District Plan) – may be some form of increased protective zoning and rates relief compensation would be a good start.”

### **Email March 13 2008 following meeting to discuss geoheritage protection in Franklin following the submission above.**

“Bruce,

Many thanks to you and Jill for the time you set aside for me the other day. Very much enjoyed the meeting – having admired your work for years. Thanks for the material . Still trying to track down whether we have a copy of the Waikato inventory and will send \$ for the Auckland region shortly.

I belong to WRPS and plan to attend their AGM to hear your talk on the Waitakere volcano at the end of the month. In the meantime

Warm regards,

Jill.

*Jill Pierce*

Resource Management Policy Planner

Franklin District Council

Private Bag 5

Pukekohe

DX EP77018

Ph 09 2371300 x 445”

**5. Extract from GSNZ Submission on Resource Consent on lower slopes of Pukekawa ONF, 2009:**



**GEOLOGICAL SOCIETY OF NEW ZEALAND**

c/o 49 Swainston Rd,  
St Johns,  
Auckland  
New Zealand

9 May 2009

Franklin District Council,  
Private Bag 5,  
Pukekohe

Resource Consent Application by A and B Dougherty, 756-762 Highway 22, Pukekawa to subdivide 4.6063 ha into 14 residential lots.

**Submission details:**

1. The Geological Society of New Zealand opposes the application and requests that it be turned down in total.
2. The reason for our opposition relates to the adverse effects the subdivision will have on Pukekawa scoria cone volcano – in our opinion the most outstanding natural features in Franklin District and one that has been scheduled on the District Scheme for many years.
3. This application was brought to our notice by Franklin District Council, because we “have been identified by Council as potentially being an interested party”.

...

“11. A large portion of Franklin District is built over the South Auckland (or Franklin) Volcanic Field of approximately 82 basalt volcanoes that erupted between 1.5 and 0.5 million years ago. Not only is Franklin built over its volcanoes, the District derives much of its income and its character from the volcanoes. The rich volcanic soils form the basis for most of the farming and horticulture between Waiuku and Bombay, Drury and Pukekawa.

12. Because they erupted quite some time ago, many of the volcanoes in this field are somewhat eroded and less obvious in the landscape than the 50 or so volcanoes in the younger Auckland Volcanic Field to the north.

13. Some of the younger volcanoes in the South Auckland Volcanic Field still substantially retain their original volcanic landform shape that can easily be recognised by the general public (once it has been pointed out to them) as a scoria cone, shield volcano or explosion crater. Of these the most obvious and best preserved volcano in the whole South Auckland Field is Pukekawa and this is why it has been ranked as Nationally Significant in the NZGI.

14. Although many of Auckland, Manukau and North Shore Cities’ scoria cones (in the Auckland Volcanic Field) have been damaged or destroyed by quarrying and subdivision, it is fortunate that

some far-sighted early Auckland councillors set aside parts or all of some of the more iconic cones for protection. They now form the premier reserves within these cities (e.g. One Tree Hill, Auckland Domain, Mt Eden, Mt Victoria, Lake Pupuke, Mt Mangere) that are much cherished by the citizens of Auckland, particularly the residents who live in the suburbs named after them. There is also considerable concern about the impact historic subdivisions have had in allowing housing to be built up the lower slopes of some of these volcanoes and impacted on their aesthetic values and on views to and from the volcanoes (e.g. Mt Eden, Mt St John, Mt Hobson).

15. One Tree Hill (One Tree Hill Domain and Cornwall Park) is recognised as Auckland's number one park and attracts thousands of visitors to it daily. It is a major tourist attraction of Auckland and a restful playground for Aucklanders. It was set aside as a reserve more than a century ago, before dense housing subdivisions had surrounded it and was therefore able to include the entire scoria cone complex as well as some of the surrounding inner parts of the shield volcano.

16. As far as we can determine, **none** of Franklin's volcanoes has yet been set aside, purchased or zoned for a potential reserve. For more than a decade our Society has recognised this failing and has been advocating to Franklin District Council that something should be done to redress this and we have always singled out Pukekawa Scoria Cone as probably the **ONLY ONE** of Franklin's many volcanoes that could potentially become the centre of a premier volcano reserve, like One Tree Hill, for future generations within your growing district.

17. The response to our requests have usually been met with the response that the cone is scheduled as a significant geological feature and that this should ensure its future survival intact for some time. We have been unconvinced and now we see the first of a new round of proposals that could jeopardise the potential premier reserve status of Pukekawa Volcano.

18. Pukekawa is the best preserved and most iconic volcanic cone in Franklin's important volcanic field – it deserves better than piece by piece subdivision.

19. For the past decade our Society has considered that the full protection of Pukekawa Volcano and better recognition and protection of some of Franklin's other younger volcanoes to be one of the most pressing issues for New Zealand earth science conservation at the present time.

20. On behalf of future generations of Franklin residents and New Zealanders in general, we call on Franklin District Council to turn down this request to subdivide, and to take steps towards ensuring that iconic Pukekawa volcano will become a future premier park in the region.

21. Do not let the suburban spread of Pukekawa Village end up damaging and destroying the very place that the village and district is named after – the volcano and the locals both deserve a better outcome.

Yours sincerely,

Bruce W Hayward PhD FRSN MNZM  
Convenor, GSNZ Geological Reserves Subcommittee”

**6. Letter sent to Waikato District Council re unauthorised bulldozing within Pukekawa Scoria Cone ONF**

General Manager, Regulatory  
Waikato District Council  
Private Bag 544  
Ngaruawahia

49 Swainston Rd,  
St Johns  
Auckland  
March 31 2011

Dear Mr Pritchard,

**Damage to Pukekawa Volcano – scheduled site**

It has been brought to our attention that an ugly new earthworks scar has appeared on the side of Pukekawa Volcano this week and is clearly visible from HWY 1. Further investigation has shown that this new scar is being made by an earthmoving machine and is constructing what appears to be a large building platform on the elevated lower slopes of the cone, well within the mapped area of this outstanding natural feature that is scheduled for protection from the adverse effects of development within the Franklin District Council's Schedule 5b.

Preliminary enquiries indicate that no Resource Consent had been applied for and if it had we would have expected to have been notified and given the opportunity to make a submission as one of the most interested parties in the long-term protection of this iconic landform.

**We request** that your council seek **an immediate halt to this unsanctioned destruction**, that you **start legal proceedings to prosecute** the offender and that as a minimum you **seek the owner restore the damaged landform at their cost**. If the owner should subsequently apply for a retrospective Resource Consent we request that it be publicly notified and that we be informed and given the opportunity to make a submission on behalf of the volcano.

We were a major party to a Resource Consent application for a subdivision on the neighbouring property in Oct 2009. That consent was not granted because it was shown that the earthworks and buildings would have adverse effects on the volcano, and our evidence clearly showed that the area covered by the scheduling was the mapped area in the NZ Geopreservation Inventory (cited in the District Scheme) which also includes all of the property in question this time around. Subdivision plans tabled at the 2009 hearing clearly showed that the present offending landowner also had plans to subdivide and was fully aware that the scheduled geological feature also covered his/her property. The present unauthorised earthworks are clearly a clandestine attempt

by the landowner to circumvent the legal protection and processes while your TLA is coming to grips with the new land under your control. We request prompt and firm action.

Yours sincerely



Bruce W Hayward PhD, MNZM  
Convenor, Geoheritage Subcommittee,  
Geoscience Society of New Zealand  
b.hayward@geomarine.org.nz



Jan Lindsay PhD  
President, Geoscience Society of New Zealand  
j.lindsay@auckland.ac.nz

cc. Allan Sanson, Mayor of Waikato District; Cr Jennie Hayman, Onewhero Ward;  
Waikato Regional Council

#### **7. Copy of one of several requests sent to WDC requesting information**

From: Bruce Hayward <bw.hayward1@gmail.com>  
To: communications@waidc.govt.nz <communications@waidc.govt.nz>  
**Subject: ONFs in Waikato District**  
Send reply to: b.hayward@geomarine.org.nz  
Date sent: Mon, 14 May 2018 20:14:14 +1200

Waikato District currently has a number of ONFs from the Franklin District Plan. These are not identified as potential ONFs to be carried forward into the revised Waikato District Plan as far as I can see from your website. Our society spent many days helping Franklin identify and schedule the existing ONFs and we have undertaken many comments to assist in protecting them over the years.

Please respond and tell us what is proposed to happen to these existing ONFs in the revised plan. There are many more ONFs in Waikato District that have not been identified by your consultants report as you will see by looking at the map on our NZ Geopreservation Inventory site.

Bruce Hayward  
Convenor Geoheritage Subcommittee, Geoscience Society of NZ

**8. Copy of response to 7 from WDC.**

From: **Jane Macartney <Jane.Macartney@waidc.govt.nz>**  
To: **"b.hayward@geomarine.org.nz" <b.hayward@geomarine.org.nz>**  
Copies to: **Giles Boundy <Giles.Boundy@waidc.govt.nz>**  
Date sent: **Thu, 16 Aug 2018 14:29:31 +1200**  
Subject: **RE: Outstanding Natural Features - Franklin Section & Proposed WDP**

Hi Bruce,

Sorry about missing that query.

My understanding is yes, all ONFs in the Franklin Section of the WDP have been carried over into the Proposed WDP - but I'm going to check that with my colleague, Giles Boundy, who is presently on leave.

Giles is back from his leave on 20th August and will need a bit of time to catch up on emails and then I'm on leave 24 August-7 September - so have therefore cc'd Giles so he can confirm the situation here.

The Boffa Miskell report that was emailed to you this morning should also confirm what existing ONFs have been carried over.

Giles - can I leave you to confirm with Bruce re: carry over of Franklin Section ONFs?

Kind regards

Jane Macartney  
Senior Policy Planner  
Waikato District Council  
■ P 07 824 8633 ■ F 07 824 8091 ■ Call Free 0800 492 452 ■ M 027 2069905  
Private Bag 544, Ngaruawahia 3742  
www.waikatodistrict.govt.nz

**9. Copy of email sent to GSNZ by Surveyor on advice from WDC Planner.**

On Wed, May 23, 2018 at 3:21 PM, Ben Young <[ben@madsen-lawrie.co.nz](mailto:ben@madsen-lawrie.co.nz)> wrote:  
Hi Bruce,

We were given your details by a WDC Planner for a consent several years ago on the Kellyville Tuff Ring as the Geoscience Society made the original submission on this topic as part of a recent plan change. You provided us with a letter advising that provided my client met certain conditions that the subdivision would not cause significant damage to the Tuff Ring. This was sufficient for WDC to sign off on that consent and you have since done a couple of others for a few other consents some of my other clients have had on the Kaipō Flats Tuff Ring.

ould you be willing to prepare the assessment if we were to pay you for your time? Otherwise would you be able to advise a suitable person to contact that could complete the necessary assessment for us.

Kind Regards,  
Ben Young  
Licensed Cadastral Surveyor

10. Copy of letter prior to 8 above (no charge)



C/- 19 Debron Ave  
Remuera  
Auckland  
24 Dec 2015

Madsen Lawrie Consultants  
Pukekohe

Dear Sir/Madam,

Proposed subdivision Kellyville Crater

On behalf of the Geoscience Society of New Zealand I have had a look at your proposed subdivision plan on the north side of the Kellyville tuff ring and compared it with google images from various angles. The Society is mainly concerned that visual integrity of this outstanding natural feature be retained as far as possible. We note therefore that the plans do not include building a large structure on the crest of the tuff ring and has plans for two house sites on ridge crests lower down the northern slopes in an area that already has a number of well-spaced dwellings.

Our only concern would be with aspects of the proposed driveway from Kellyville Rd down to the building site where it goes down a steep slope below the road. We would prefer that it does not leave too much of a permanent obtrusive scar on the outer slopes of the cone that can be seen from many kms away. We would urge that the amount of earthworks be kept to a minimum and that the cuttings be eventually camouflaged with grass or if necessary retaining walls that are grass coloured.

Kellyville crater and tuff ring is a large eroding landform and thus only the tuff ring crest and major ridges preserve the original shape of the volcano and in this instance these are not going to be compromised in any significant way.

Yours with the rocks,

Bruce W Hayward  
Convenor, Geoheritage Subcommittee, Geoscience Society of NZ

**11. Copy of letter responding to 8 above (no charge)**

Geoheritage Subcommittee  
Geoscience Society of New Zealand  
c/- 19 Debron Ave  
Remuera  
Auckland May 23 2018

Planning Dept  
Waikato District

Dear Sir/Madam

Receiver Scheme Plan 23.1.2018 and 4089 Revised Scheme Plan.

I have examined the above proposed subdivision plans on Kohanga Rd near Onewhero Village and conclude that they and any resulting new earthworks and buildings will only have minimal additional impacts on the heritage values of Onewhero Explosion Crater and Tuff Ring which is a scheduled ONF in the District Plan. As such our society can see no strong reason why the plans should not be allowed to proceed.

Our society very much values the scheduled ONFs that Waikato inherited from Franklin District and hope that the remaining well preserved volcanoes in your district will be scheduled ONFs also in the upcoming plan review, as they clearly require better planning protection.

Yours sincerely

A handwritten signature in black ink that reads "B.W. Hayward". The signature is written in a cursive, slightly slanted style.

Bruce W Hayward  
Convenor, Geoheritage Subcommittee, Geoscience Society of NZ