# 2017 Airspace Proposals – Final airspace changes effective 9 November 2017

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#### Introduction

This document provides a summary of airspace proposals for permanent change made over the period from 2016-17.

The values in the table following each proposal indicate the CAA assessed effect for IFR and VFR aircraft operations – positive (+), negative (-). This is a general assessment of effect as the actual effect will vary considerably; dependent on the aircraft type and operation.

All altitudes in this document are expressed in terms of above mean sea level (AMSL), unless otherwise stated.

Consultation was completed at the end of April 2017.

The airspace changes detailed in this document will be effective from 9 November 2017.

The following table illustrates the airspace letter codes and associated abbreviations used in this document:

Type of airspace and code	Abbreviation
Control area (NZA)	СТА
Control zone (NZA)	CTR
Restricted area (NZR)	-
Danger area (NZD)	-
General aviation area (NZG)	GAA
Mandatory broadcast zone (NZB)	MBZ
Military operating area (NZM)	MOA
Parachute landing area (NZP)	PLA
VFR transit lane (NZT)	-
Low flying zone (NZL)	LFZ
Common frequency zone (NZC)	CFZ
Visual reporting point	VRP

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#### 2017 Taranaki airspace review

For earlier consultation, development and details of the final changes, refer to the documents published on the CAA web site – Airspace Reviews page, 2017 Taranaki section – <u>http://www.caa.govt.nz/airspace/airspace-review/</u>.

This section summarises the submissions received in relation to the '2017 Taranaki Airspace Review – Final airspace changes' document published 11 April 2017. Submissions closed 19 April 2017.

	Taranaki Airspace Changes				
1. Taranaki co	ontrolled airspace re-design				
Proposal	The introduction of new performance based navigation (PBN) procedures at New Plymouth aerodrome also required a review of the existing controlled airspace designation and classification.				
	Following this review, Airways proposed the following controlled airspace changes for New Plymouth aerodrome and environs:				
Reduction in size of New Plymouth CTR to be as small as practicable to protect the instrument flight paths and re     as Class G the airspace that is not required.					
	New CTA/D above New Plymouth CTR, lower limit 1500 ft, to contain new PBN procedures.				
	Amendment to boundary of New Plymouth CTA/D, lower limit 2500 ft, southeast in the vicinity of Inglewood township and Norfolk aerodrome and westwards to 21.5 NM from New Plymouth, to contain new PBN procedures.				
	Three new CTA/D west of Mount Taranaki/Egmont, lower limits 3000 ft, 4500 ft and 6500 ft, to contain new PBN procedures.				
	• Existing New Plymouth CTA/D, lower limit 4500 ft, east of Mount Taranaki/Egmont, western boundary amended and the				

	Taranaki Airspace Changes		
	CTA split in two with new lower limits 4500 ft and 5500 ft.		
	New CTA/D, lower limit 5500 ft, extends to the northeast of 21 NM from New Plymouth to appro	oximately 28 NN	Λ.
	Controlled airspace 21 NM west of New Plymouth lowered from 13,500 ft to 9500 ft.		
Feedback	There were no submissions received in response to the New Plymouth CTR and CTA final airspace ch	nange proposals	<b>)</b> .
Result	The New Plymouth CTR and CTAs are amended as proposed.	-	effect from rent
		IFR	VFR
		Minor +	Minor -
2. Maui and Ta	ranaki CFZs		
Proposal	The reduction in size of the New Plymouth CTR/D required amendments to the boundaries of Maui align as adjacent to the CTR.	and Taranaki CF	Zs to re-
Feedback	There was no further feedback received.		
Result	The boundaries of Maui and Taranaki CFZs are amended to align with New Plymouth CTR/D.	Proposal e curr	effect from rent
		IFR	VFR
		Nil	Nil
3. New general	aviation area		

	Taranaki Airspace Changes				
Proposal	ProposalThe Taranaki Gliding Club requested the establishment of a new GAA, east of Mount Taranaki/Egmont, to be used by gliders during strong south-westerly conditions and is expected to be used approximately 25 afternoons a year for wave-flying.				
Feedback	There were no further submissions received in regard to the proposed changes.				
Result	NZG351 Egmont is designated, LLCA to 9500 ft, active by ATC approval only.	Proposal e curi	effect from rent		
		IFR	VFR		
		Minor -	Minor +		

#### 2017 West Coast – South Island airspace review

For earlier consultation, development and details of the final changes, refer to the documents published on the CAA web site – Airspace Reviews page, 2017 West Coast – South Island section – <u>http://www.caa.govt.nz/airspace/airspace-review/</u>.

This section summarises the submissions received in relation to the '2017 West Coast – South Island airspace review– Final airspace changes' document published 12 April 2017. Submissions closed 19 April 2017.

	West Coast – South Island Airspace Changes		
1. West Coast da	1. West Coast danger areas		
Proposal	Submissions were received requesting the following:		

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	West Coast – South Island Airspace Changes			
	1. Disestablishment of NZD723 Cape Foulwind as blasting no longer takes place as this location.			
	<ol> <li>NZD715 Strongman – New Zealand Hang Gliding and Paragliding Association (NZHGPA) requested boundary along to ridgeline be moved eastwards for improved hang gliding and paragliding access</li> </ol>		ern	
Feedback	There were no further submissions received.			
Result	<ol> <li>NZD723 Cape Foulwind is disestablished.</li> <li>NZD715 Strongman – as advised in the final airspace changes document, the new owners of</li> </ol>	-	Proposal effect from current	
	the mine are not able to amend the boundary at this stage. The ongoing requirement for the danger area will be reviewed by April 2018.	IFR	VFR	
		Nil	Minor +	
2. Southern Alps	MBZ amendment	-		
ProposalThe Mount Cook and Westland National Parks User Group submitted a petition to amend the eastern an boundaries of NZB978.		and south-w	estern	
	1. Eastern boundary – extend the eastern boundary to along the ridge of the Two Thumb Range.			
2. South-western boundary – extend the corner to encompass most of the Gladstone Valley, particularly the Gla Saddle			adstone	
Feedback	This proposal was opposed by gliding organisations, including hang glider and paraglider operators. Ref – South Island airspace review' summary of submissions and final airspace changes documents.	fer to' <i>2017</i>	West Coast	
At the user consultation meeting in Twizel, the user group advised that the requested extension to the south-western boundary was not required.		ern		
	There was one submission received from Air Safaris supporting the eastern extension to the MBZ. How	ever, Air Sat	faris would	

	West Coast – South Island Airspace Changes			
	accept the compromise of a CFZ.			
Result	Neither amendment to NZB978 will proceed.         A new CFZ will be established to the east of NZB978 to enable gliding operations to continue without		Proposal effect from current	
	the need to broadcast on the MBZ frequency.	IFR	VFR	
		N/A	Minor +	
3. New Southern	Alps CFZ			
Proposal	It was requested the proposed eastern boundary amendment to NZB978 be established as a CFZ instead section.	id. Refer pre	evious	
Feedback	Refer previous section.			
Result	New CFZ, NZC973 Southern Alps, over the Two Thumbs Range as per the '2017 West Coast – South Island airspace review – Final airspace changes' document is established as follows:	•	effect from rrent	
	Surface to 12,500 ft; and	IFR	VFR	
	Frequency 118.6 MHz, "Alps traffic" – same as NZB978.	N/A	Minor +	
4. Amendment t	o NZB774 Hokitika			
Proposal	<ul> <li>Air Nelson requested to extend NZB774 Hokitika to include Greymouth aerodrome., and to the east of 13,500 ft and 9500 ft boundary (approximately 30 NM east of Hokitika aerodrome). The MBZ would be sectors:</li> <li>SFC – 13,500 ft; and</li> </ul>			

	West Coast – South Island Airspace Changes		
	<ul> <li>4000 ft – 13,500 ft; and</li> </ul>		
	• 7000 ft – 13,500 ft.		
	Transponder mandatory from 1500 ft AGL.		
	Prior to the airspace user consultation meeting held on 3 April 2017 at Hokitika airport, Air Nelson submitted a further design which further split the MBZ into four tiers.		
	While the amended proposal was discussed at the user meeting, CAA did not support it due to the further complexity this proposal would add to uncontrolled airspace.		
Feedback	There was no further feedback to the proposed amendment to NZB774.		
Result	The existing MBZ was designed prior to the introduction of the RNAV approaches and a review of the current dimensions is timely.		
	It was decided to split the airspace into two separate MBZs. Refer to next section regarding establishment of a new MBZ east of Hokitika MBZ.	IFR	VFR
	Hokitika MBZ is amended as follows:	Major +	Minor -
	New alphanumeric code NZB777;		
	Surface to new upper limit of 7500 ft;		
	Frequency is changed to 119.8 MHz;		
	extended to incorporate Greymouth aerodrome to just north of Greymouth township to allow for hang gliding and paragliding activity which takes place north of Greymouth at Point		

	West Coast – South Island Airspace Changes		
	<ul> <li>Elizabeth;</li> <li>reporting interval remains at every 5 minutes;</li> <li>transponder mandatory from 1500 ft.</li> </ul>		
5. New MBZ eas	st of Hokitika	·	
Proposal	Refer to previous section.		
Feedback	There was only one submission received regarding the final airspace change. Air Nelson requested t transponder mandatory to the lower limit. Subsequent discussion with the West Coast Microlight C transponder equipped aircraft would be unlikely to operate above 4500 ft.		
Result	New MBZ, NZB778 Hokitika East, is designated with two tiers with lower limits as follows:	•	effect from rent
	<ul> <li>NZB778A – 4500 ft between approximately 6 and 15 NM east of Hokitika aerodrome;</li> <li>NZB778B – 7500 ft from approximately 15 NM to 30 NM east of Hokitika aerodrome;</li> <li>Transponder mandatory from the lower limit the MBZ;</li> </ul>	IFR Major +	VFR Minor -
	<ul> <li>upper limit of 13,500 (lower limit of controlled airspace);</li> </ul>		
	<ul> <li>same frequency as B777 Hokitika – 119.8 MHz, Hokitika traffic;</li> <li>reporting interval every 10 minutes.</li> </ul>		
6. New visual re	eporting points – NZB978 Southern Alps		
Proposal	The Mount Cook and Westland National Parks User Group requested the designation of three new	visual reporting	points at

	West Coast – South Island Airspace Changes		
	Tekapo Saddle, Mount Joseph and Irishman Creek Saddle.		
Feedback	There were no further submissions received.		
Result	The three new visual reporting are designated as requested.	•	effect from rent
		IFR	VFR
		N/A	Minor +
7. Hang gliding	y symbols		1
Result	For pilot awareness, hang gliding symbols will be added at these locations – Sherry River, Mount Murchison, Stockton, Denniston, 9 Mile Beach, Point Elizabeth, Sewell Peak, Mount Cheesman, Ohau Skifield.	-	effect from rent
		IFR	VFR
		Minor +	Minor +

#### Other airspace changes

For earlier consultation, development and details of the final changes, refer to the documents published on the CAA web site – 2016 Other Airspace Consultation page – <u>http://www.caa.govt.nz/airspace/airspace-review/</u>.

This section summarises the submissions received in relation to the user consultation documents:

2017	Other Airspace Consultation	Consultation closed
1.	Christchurch CTR amendments	6 April 2017
2.	Proposed amendments to lower level of controlled airspace above Timaru and Ashburton	10 April 2017
З.	Amendment to Waikato CFZs	10 April 2017
4.	New GAA Roxburgh	Held over from 2016 review
5.	New GAAs at Coleridge and Springfield	Limited – Airways only as no effect to other users
6.	ATC sector relocation CTA changes and station call sign amendments	N/A
7.	LFZ boundary amendments	N/A
8.	New danger area – Bombay Quarry	N/A

Further to the airspace changes consulted on with users by CAA, controlled airspace changes were made in associated with Airways relocation of ATC sectors.

2017 Other Airspace Changes			
1. Christchurch CTR amendments			
ProposalTo contain the new instrument approaches to runways 11/29 at Christchurch, Airways submitted a petition late December 2016 to amend the Christchurch control zone and associated airspace.			
	Refer to the 'Application for amendment to Christchurch control zone and terminal control area boundaries – airspace user		

	2017 Other Airspace Changes		
	<i>consultation</i> ' document on the CAA Airspace Review webpage – <u>http://www.caa.govt.nz/assets/legacy</u> <u>Christchurch-CTR.pdf</u> .	y/airspace/	<u>2017-</u>
Feedback	<ul> <li>There were eight submissions received.</li> <li>Three supported the changes (airline operators);</li> <li>NZHGPA raised no objection provided that NZG853 was not amended, or any airspace over the Port Hills;</li> <li>Feedback from flying training organisation which identified potential problem areas with proposed VRPs and boundary lines along with suggested solutions, as well as other recommendations;</li> <li>Aerodrome operator at Forest Field raised safety issues with the lowering of controlled airspace to circuit height over the aerodrome, as well as there being no direct consultation by Airways on the major change to the controlled airspace;</li> <li>Canterbury Airspace User Group submission, which contained no comments on the proposed airspace, but requested changes to the Rangiora and Banks CFZ boundaries in association with the proposed airspace changes.</li> </ul>		
Result	<ul> <li>CAA agreed with that further rationalisation of the proposed CTR boundaries were required to ensure that the airspace would be easily navigable by all pilots. It was also identified that there was a need for further consultation to possibly find a solution to the Forest Field issue.</li> <li>One proposed change is necessary to contain the RNAV (GNSS) RWY 11 approach during daylight hours. The south-eastern boundary of VFR transit lane NZT858, Eyrewell, infringes into the containment area of this approach. By moving this boundary to along the 4WD track on the north bank of the Waimakariri River, the procedure would be contained. There were no submissions received objecting to this change.</li> <li>Due to VNC cut-off deadline at the end of April, further consultation would not be completed in time by the Director to appropriately consider and resolve issues which have arisen. With the exception of</li> </ul>	Proposa from c IFR Minor +	

2017 Other Airspace Changes		
2. Proposed	one necessary airspace amendment to NZT858 Eyrewell, deferment of the changes would not prevent the implementation of new PBN procedures, but realisation of full benefits from the new procedures will not occur until the airspace is changed. To ensure that the safety issues raised are appropriately addressed, implementation of the proposed change is deferred until November 2018 (with the exception of amendment to NZT858) to enable this to occur with no increased risk to the existing situation. amendments to lower level of controlled airspace above Timaru and Ashburton aerodromes	
•		
Proposal	Air Nelson submitted a petition to amend the boundaries of the Timaru MBZ to fully encompass the RNAV (GNSS) approaches below controlled airspace.	
	Also included in the petition were the following controlled airspace requests:	
	<ol> <li>amend the lower level of controlled airspace to 9500 ft east of a line Peel Forest-Mount Studholme-intercept point of existing CTA LL 9500 ft and 13,500 ft boundary with SW 20 NM arc; and</li> </ol>	
	2. establish a new control area south of Ashburton from 7500 ft to 9500 ft between 40 and 50 NM south of Christchurch.	
	For further details, refer to the ' <i>Proposed changes to Timaru Mandatory Broadcast Zone – airspace user consultation</i> ' document available on the CAA website, Airspace review page:	
	http://www.caa.govt.nz/airspace/airspace-review/	
Feedback	Refer to the ' <i>Proposed changes to Timaru mandatory broadcast zone – Summary of submissions</i> ' document available on the CAA website, Airspace Review page (link above).	
	There were no objections received to the proposed change to the lower limits of controlled airspace over Timaru and in the vicinity of Ashburton. Airways advised that it would be able to manage the controlled airspace with the amended	

	2017 Other Airspace Changes			
	lower limits.			
Result	The proposed amendments to the Timaru MBZ and establishment of a new CFZ have been deferred to enable further consultation.	Proposal effect from current		
	The controlled airspace changes will become effective on 9 November 2017.	IFR	VFR	
		Minor +	Minor -	
3. Ameno	ament to Waikato CFZs		<u> </u>	
Proposal	New CFZs, Harbour and Morrinsville, were established following the 2016 Waikato and Bay of Plenty a a common boundary point with the existing CFZ Peninsula of the Waihi Gap.	irspace rev	iew, with	
	However, the Waihi Gap is a high VFR traffic area, which is often used to transit between the Coroman Ranges.	idel and Kai	mai	
	As a result of industry feedback, the boundaries of the CFZs have been reviewed and re-designed to ave confusion in the Waihi gap area.	void freque	псу	
	To provide better situational awareness and differentiate between traffic operating in the vicinity of Raglan aerodrome and other traffic operating elsewhere in the Raglan CFZ, it was proposed to change the name of the CFZ.			
	Users were asked to state a preference for possible names Pirongia or West Waikato, or to suggest an alternative which would reflect the region.			
	For further details, refer to the 'Proposed amendments to Waikato Common Frequency Zones – Airspa	ce user con	sultation'	
Feedback	There were 11 submissions received.			

2017 Other Airspace Changes			
	Harbour/Peninsula/Morrinsville boundary amendment:		
	Of the seven submissions regarding the proposed boundary change, there were four in favour. Two re boundary change place Waihi Gap into the Peninsula CFZ, with one of those suggesting that the Penin be moved southwards to the Tauranga CTR boundary.	•	
	There was one suggestion to split the existing Morrinsville CFZ into two, and to have the northern portion on the same frequency as the Matamata MBZ. The reasons why the Matamata MBZ remained on a separate frequency were explain on page 16 of the '2016 Airspace Proposals – Final airspace changes effective 10 November 2016' document (http://www.caa.govt.nz/assets/legacy/airspace/2016_Final_Airspace_Changes.pdf).		
	Raglan CFZ name change:		
Eight submissions were received in regard to the Raglan CFZ name change. There was one submission in favour Pirongia, and one submitter favoured West Waikato.		in favour of	-
	Another submitter proposed changing both Morrinsville and Raglan CFZ names to 'Waikato East' and 'Waikato West' respectively.		est'
	There were five submissions received proposing the name Blacksands.		
Result	Harbour/Peninsula/Morrinsville boundary amendment: The boundary is amended as per the proposal and has been re-designed to avoid frequency	Proposa from c	
	confusion in the Waihi Gap area.	IFR	VFR
	Raglan CFZ name change:	Nil	Major +
	The Raglan CFZ name will be amended to Blacksands CFZ.		

2017 Other Airspace Changes			
4. New GA	4. New GAA Roxburgh		
Proposal	In 2016 Gliding NZ requested the establishment of a new GAA in the Alexandria area, which would share common boundaries with the existing lower South Island GAAs – NZG957 Omarama, NZG955 Waitaki and NZG954 Ranfurly.		
	The proximity to Queenstown IFR arrival and departure procedures meant that full assessment had to be undertaken to ensure that separation would be maintained between controlled flights and the proposed GAA.		
	This required a re-design of the proposed GAA to ensure that there was little or no negative effect on the affected instrument flight procedures and would have resulted in a substantially reduced area to that requested.		
	Because the completed assessment was received at the beginning of April 2016, there was insufficient time to re-design the GAA to meet both Gliding New Zealand and operator needs before the cut-off for publication on the VNC in late April.		
	This request is held over for further development and possible implementation in November 2017.		
	Gliding NZ submitted an amended airspace request, which included airspace over Roxburgh, based on a sector used by ATC during glider competitions. This sector remained controlled airspace.		
	The proposed GAA was assessed by the holder of a Part 173 certificate for the design of instrument procedures, Aeropath (previously GroupEAD). A further boundary change was necessary to ensure it is separated against nearly all of the Queenstown instrument procedures.		
	With the southern boundary change, approximately 15 NM northwards, the GAA was no longer over Roxburgh which necessitating the change of name to Alexandra.		
Feedback	Because this work was a continuation of that consulted on in 2016, and based on the number of responses received then (one), no further formal consultation was undertaken.		
Result	New GAA, NZG953 Alexandra, is designated between 13,500 ft and FL175. NZG953 is active during Proposal effect		

2017 Other Airspace Changes			
	daylight hours by ATC approval.	from current	
	The ATC approval is required to enable ATC to manage the airspace as the EKVOX hold is not laterally		VFR
	separated from the GAA.	Minor -	Nil
5. New GAA	s at Coleridge and Springfield		
Proposal	The Canterbury Gliding Club requested the dis-establishment of NZG976 Hororata due to the relocatio to Springfield aerodrome.	n of the glic	ling club
	To facilitate entry into controlled airspace closer to Springfield aerodrome, for early cross-country fligh wave-flying, Canterbury Gliding Club requested the establishment of two new GAAs west of NZG976 – lower limit of controlled airspace to 9500 ft (Springfield) and 12,500 ft (Coleridge) respectively.	•	•
Feedback	A formal assessment and response was requested from Airways to ensure that ATC would be able to manage the GAAs and if there would be any effect on IFR flight paths and procedures. The response was that the airspace would be manageable and the airspace would be clear of most tracks, except for the northern boundary of the proposed Coleridge GAA. This boundary would not be procedurally separated from the Hokitika Christchurch track. Because flights departing Hokitika are outside surveillance cover initially, application of procedural separation is required until the flight is identified. A small adjustment to this boundary would provide the required separation.		for the Hokitika- Iural
	Based on this response, no further consultation was undertaken as there would be no effect on other controlled airspa users.		iirspace
Result	With the amendment to the boundary, NZG976 Hororata is disestablished and two new GAAs are designated as follows:	Proposa from cu	

2017 Other Airspace Changes			
	NZG951 Springfield, lower limit of controlled airspace to 9500 ft; and	IFR	VFR
	NZG952 Coleridge, lower limit of controlled airspace to 12,500 ft.	Nil	Nil
	Both GAAs are active by ATC approval only during daylight hours.		
	Refer to the diagram in Appendix A which shows the GAAs and NZG976.		
6. ATC Secto	or relocation CTA changes and station call sign amendments	L	
Amendments	Ground station ATC call signs:		
	On 2 March 2017, ACs 91-9 and 172-1 were revised. To conform ICAO Annex 10 Vol II, ground station a standardised to indicate to pilots the respective ATC service being provided – in particular: CONTROL i service suffix mainly used for enroute controlled flights; and APPROACH is an approach control suffix f departing controlled flights in terminal controlled airspaces.	s an area co	ontrol
	The call sign changes are currently advised by AIP Supplement. VNC will be updated on 9 November 20 ATC call signs.	)17 to show	/ the new
	ATC sector relocations:		
	a) Raglan sector:		
	In May 2017, Airways relocated the area control Raglan sector, previously part of Bay sector – which c between New Plymouth and 40 NM south of Auckland, west of Hamilton on frequency 126.0 MHz – fr Auckland. With the move to Auckland, the station identifier was changed to 'Auckland' for the location provided from.	om Christch	nurch to
	As a consequential change to the relocation of Raglan sector, some minor controlled airspace boundar	y changes v	were

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	necessary. Included in this work was the change of ATC call signs as follows:
	<ul> <li>Bay sector from Christchurch CONTROL to Bay APPROACH to specify the approach control services provided to Tauranga, Rotorua and Hamilton aerodromes.</li> </ul>
	Raglan sector from Christchurch CONTROL to Auckland CONTROL
	b) Queenstown sector:
	In November 2017, surveillance services south of a line from Waimate township-Mount Studholme-Mount Nessing-Mount Mary-Mount Hooker, to just north of Haast, will be provided by a new ATC sector, Queenstown, located in Christchurch Air Traffic Services Centre. This will include area control surveillance service from FL175 above Queenstown controlled airspace. In 2018, Queenstown surveillance sector will also provide an approach control procedural and surveillance service in all Queenstown control areas.
	This change has also necessitated controlled airspace boundary changes to split the airspace between Area South and new Queenstown sectors.
7. LFZ boun	dary amendments
Amendments	The following LFZ boundary amendments are made following requests from the using agencies.
	Rule 71.163 requires the using agency to obtain consent from the registered owner or administrator of the land or water below the LFZ. If the owner or administrator no longer consents to the portion of airspace over their land or water being used for low flying, then the boundaries of the LFZ must be amended.
	In these instances, consultation was other airspace users was not necessary.
	NZL261 Tauranga Harbour boundary:
	Following noise complaints from local residents, the using agency, Tauranga Aero Club, requested the amendment of the

2017 Other Airspace Changes				
	southern boundary of the LFZ.			
NZL767 boundary:				
	Following the change of ownership of the land under the southern portion of the LFZ, the using agency requested the amendment of the southern boundary to exclude this land.			
8. New dang	8. New danger area – Bombay Quarry			
Amendment	The Bombay quarry operator, Holcim New Zealand Ltd, requested a new danger area be designated to warn pilots of the potential hazard from blasting operations at the quarry.			
	It is not CAA function to determine location of mining and associated blasting activity, but CAA is required to inform pilots of the potential hazard. The designation of a danger area activated by NOTAM is the appropriate means to do so.			
	New danger area, NZD228 Bombay Quarry, 0.5 km radius, surface to 1800 ft, is designated approximately 2 NM northwest of Green Shed VRP.			

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### Appendix A – new NZG951 Springfield and NZG952 Coleridge