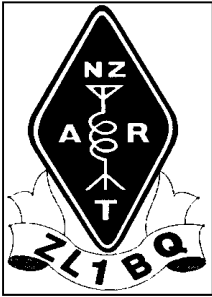


**The Official Newsletter of the  
Auckland VHF Group Inc.  
Spectrum**



**Klondyke August 2019**

**October General Meeting — page 3**  
**Clubrooms Working Bee—page 4**  
**The President’s Report — page 5**  
**September General Meeting Report—page 6**  
**Notice of 2019 Annual General Meeting—page 9**



# Auckland VHF Group Inc.

## Branch 66 NZART

PO Box 10138, Dominion Rd, Auckland 1446  
 Clubrooms: 30 Hazel Ave, Mt Roskill

Office	Name	Call sign	Work / Mobile	E-mail
President	Matthew King	ZL1YOT	022 649 3310	president@aucklandvhf.org
Vice President	Not filled			
Secretary	Brendon Reid	ZL1XXX	021 970 785	secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
Committee	Warren Harris	ZL2AJ	021 649 284	warren@zl2aj.com
	Dave Dingley	ZL1TIA	09 828 9394	mardayak@gmail.com
	Darryl Grange	ZL1TCI	021 123 7733	dgrange@ecohousing.co.nz
AREC Group Leader	Laurie Mathews	ZL1ICU	0274 817 463	perma@xtra.co.nz
Deputy Group Ldr.	Not filled			
ZL1BQ Trustee	Matthew King	ZL1YOT	022 649 3310	zl1bq@aucklandvhf.org
Head Repeater Trustee	Warren Harris	ZL2AJ	021 649 284	repeatertrustee@aucklandvhf.org
Klondyke Manager	Vaughan Henderson	ZL1VH	021 844 804	6625@aucklandvhf.org
670 Manager	Vaughan Henderson	ZL1VH	021 844 804	670@aucklandvhf.org
690 Manager	Dennis Seymour	ZL1UET	09 278 0381	690@aucklandvhf.org
850 Manager	Vaughan Henderson	ZL1VH	021 844 804	850@aucklandvhf.org
Spectrum Editor	Peter Loveridge	ZL1UKG		spectrum@aucklandvhf.org
Trading Table	Vaughan Henderson	ZL1VH	021 844 804	tradingtable@aucklandvhf.org
Account Reviewer	Basil Orr	ZL1TOW	021 867 367	
Webmaster	Terry Corin	ZL1BPA	027 697 4686	webmaster@aucklandvhf.org
Club Web Page:	<a href="http://www.qsl.net/zl1bq">http://www.qsl.net/zl1bq</a>			
ZL1VHD Dstar gateway administrator:	Laurie	ZL1ICU	634 5130	0274 817463 perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :	<a href="http://zl1vhd.dstar.org.nz">http://zl1vhd.dstar.org.nz</a>			

### Club News and Net:

The combined Auckland VHF Group and Auckland Regional Branch News and Net are held on 146.625 MHz and 439.875 MHz at 8.15 pm each Sunday or after the ZL6A National Broadcast on the last Sunday of the month.

Club meetings are held at the Clubrooms at Hazel Avenue, on the second Monday of each month at 7.30 pm. For other details, listen to the News and Net each Sunday evening.

**SPECTRUM** is the official journal of the Auckland VHF Group Inc. Opinions expressed are those of the authors and do not necessarily reflect club points of view. The closing date for SPECTRUM articles is by the 1st of each month. Articles to be submitted to the editor Peter ZL1UKG  
**spectrum@aucklandvhf.org**

# **Auckland VHF Group (Inc) Branch 66**

## **General Meeting Notice**

**Monday 14<sup>th</sup> October 2019 7.30pm,**

At the Hazel Avenue Club Rooms  
(Located on left at the end of Hazel Avenue)

### ***The Evening's Topic:***

#### **A Day in the Life of a Radio Inspector**

Join us for an evening with Kevin Everitt, a Radio Inspector with Radio Spectrum Management.

Kevin will share an overview of the key RSM activities and then take a look at some recent case studies of interference investigations along with signal location techniques.



**EVERYBODY WELCOME**

**We look forward to seeing you there**

**Supper will be served at the conclusion of the meeting.**

#### **Coming Events:**

- Clubrooms Working Bee Monday 14 October from 10am
- SDR Workshop at VHF Group Clubrooms, Wednesday 16 October
- Workshop/Construction night at VHF Group Clubrooms Wed. 23 October.
- Western Suburbs ARC Market Day 02 November 2019, Rosebank School Hall, 217 Rosebank Road, from 9 am
- Field Day Contest Sat 07-Sun 08 December. All bands 6m and up.

## Clubrooms Working Bee

Got a bit of spare time—we could use your help on **Monday 14 October** from about 10am at the clubrooms. The two dual band collinear antennas and the horizontal boom they mount on has been repaired and we want to get the back in place. We also want to get a line and pulley to the top of the mast so we can re-instate the HF dipole. A cherry picker has been organised to help with this work. While we have the cherry picker, will take the opportunity to spray the roof of the clubrooms which have a heavy build up of lichen and mildew. There's a bit of painting to do inside the clubrooms and if we get it organised in time, a handrail up the outside of the main entrance stairs.

Please come along and help if you can on Monday 14 October.

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## Subscription Increase

In accordance with the motion passed at the AGM held on the 12th November 2018, subscriptions to the Auckland VHF Group will increase effective 1 October 2019, the start of our new financial year.

The motion was to update Full Membership to \$50.00 and all other memberships by 10%.

As a result:

The Full subscription will increase from \$45.00 to \$50.00.

The Associate Subscription will increase from \$40.00 to \$44.00.

Family members were \$10.00, possibly stay there.

## Notice of Annual General Meeting

Notice is hereby given that the Annual General Meeting of the Auckland VHF Group Inc., will be held on Monday 11 November 2019 at the Clubrooms, 30 Hazel Avenue, Mt. Roskill, commencing at 7.30pm.

The business of the meeting will be:

To receive the reports of Officers

To elect a President, Vice-President, Secretary, Treasurer, and four Committee Members for the ensuing year.

Appoint an account reviewer for the ensuing year.

Appoint an AERC Group Leader, Head Repeater Trustee and Editor for Spectrum magazine.

Receive members submissions and remits and deal with any relevant general business.

Please give serious consideration to offering your services to the club—we will have a number of vacancies to be filled come the AGM.

## Auckland VHF Group Presidents Report October 2019

I've been sailing, so don't have much to report on amateur radio matters for this edition. Leaving from Whangarei, it took a week to reach Noumea in a fifty foot steel sloop. Caught a few fish and had a visit from a French warship a hundred miles from landfall. Checking us out. A little later a helicopter from the ship did a flyover. We did trip reports to Taupo Maritime Radio every afternoon on about 14MHz, and sent slow emails with WinLink. So slow I didn't bother after the first one.



It was lovely and warm up there, so I stayed around a week before flying to Vanuatu then home. Couldn't raise anyone on the repeaters in Noumea, but then my French isn't too hot! So now it's back to the mill.

Stopped at the Brynderwyn repeater after collecting the car, and did some photos of it. I need to wrap up the funding applications so the Klondyke Tower painting can be scheduled over summer, and we are lining up the clubroom aerial reinstatement soon.

Is there anyone available to coach construction nights? Between now and the end of the year we would like to hold some construction nights at the clubrooms, Just simple things like making baluns and checking aerials. That's it for now. See you next month!

### Clubrooms Construction Nights

With the arrival of daylight saving, the VHF Group will be holding a series of Construction Workshops at the Clubrooms on Wednesday evenings from about 7pm onwards. The first of these will be held on **Wednesday 23rd October** and the following **Wednesday 30 October**. Depending on the success and support for these workshops, we will continue on in November.

If you have got a project you are working on and need some help, bring it along. Need something tested? We have a range of test equipment at the clubrooms. Need some parts? Maybe the Trading Table can help.

## **Auckland VHF Group Inc.**

**Minutes of the General Meeting held on 9<sup>th</sup> September 2019 at the Clubrooms, Hazel Avenue, Mt Roskill**

**Meeting Start** 7:35pm

**Present:** As per attendance book

**Apologies:** Dennis ZL1TAY, Matthew ZL1YOT, Dave ZL1TIA

**Moved that Minutes of the Last General Meeting as published in Spectrum be accepted**

Moved Brendon ZL1XXX, Seconded Margaret ZL1AYV, Motion Carried

**Matters Arising from the Minutes**

No Matters Arising

**Correspondence In**

Newsletters : QUA FARC, Papakura Radio Club, Foundation North

AREC Draft Standard – Andy Brill ZL1COP

Invoice from Terry Corrin for Website

Western Suburbs Radio Club Equipment Sale Sat 2<sup>nd</sup> November

**Correspondence Out**

No Correspondence Out

**Finance Report – George ZL1TUX**

No Finance Report

**Klondyke update**

In response to a question, Vaughan ZL1VH advised that he has had a text from the Landowners representative, Eric Zhao, saying that the owner is in discussions with the other tenants and will come back to us but it will be some time.

**Digital Presence Update - Brendon ZL1XXX**

Old Site Deprecated, New site now live, please check it out and let secretary or webmaster know if there are any changes or suggestions.

We will be watching the NZART web site for relevant content for our calendar as those items come up

## **General Business**

Brendon Reid ZL1XXX will be standing down for a period from November. Please think about joining the committee in November at our AGM

Microwave Bands Contest 1<sup>st</sup> Weekend October – all bands 1296MHz and above.

Jumbo Challenge Indoor Bowls Wednesday 2<sup>Nd</sup> October – Albany Village Hall.

2<sup>nd</sup> November Western Suburbs Equipment Sale – Rosebank School Hall

## **Coastguard Presentation by Coastguard Northern Region IT and Infrastructure Manager Phillip Kavermann**

The VHF Communications project started in 2015 around the time the channel 80+ reallocation was happening in NZ. The initial suggestion was to use Kordia “high sites”, but these were inland with less than ideal marine coverage. Coastguard went out on the water with Kordia technicians and after testing decided to retain Coastguard transmitter sites. The design was signed off in 2018 and is nearly complete now. The Auckland Marine Rescue Centre (AMRC) Radio Room is staffed 24/7 and also hosts Northern region surf staff. There are over 100,000 trip reports processed a year, 10% of the trip reports are “bar crossings” and these have a timer to be sure the boat crossed safely. AMRC looks after Coastguard Eastern and Southern region overnight so effectively most of the country. AMRC Coordinates 22 boats and 2 planes.

The Marine Weather Nowcasting service is now recorded at AMRC and sent via dropbox to PC’s around the country and transmitted from there.

Wave software from Motorola is used to control voice communications at the AMRC. This software package enables interoperable push-to-talk (PTT) communication across broadband and radio networks and devices. This software is also used by the Marine Operations Centre in Lower Hutt.

Kordia also supply the Marine Operations Centre in Avalon which looks after areas Coastguard doesn’t like the west coast of the south island and further out to sea. Coastguard and MOC are on the same system and one can hand over to the other – and this has happened twice since the system went in as MOC staff were evacuated from the building in Wellington.

Coastguard also have the \*500 number for cellphone use if your VHF radio is flat.

One of the challenges for the AMRC is accurately locating vessels in distress. The Marine Automatic Identification System (AIS) helps with this but it is currently only fitted to larger vessels.

Philip’s presentation concluded with a few questions and thanks with a round of applause.

**Meeting Closed 9:15**

## **Next Meetings**

Committee Meeting Monday 30<sup>th</sup> September

Club Meeting Monday 14<sup>th</sup> October – A Day in the Life of a Radio Inspector

AGM Monday 11<sup>th</sup> November



Philip Kavermann, our guest speaker at the September meeting. Philip is Coast-guard Northern Region IT and Infrastructure Manager



Hamilton Market Day at the Gordonton Hall



## Ronald Philips ZL1TBO, Silent Key

The VHF Group records with much regret the sudden passing of Ron Philips, ZL1TBO. Ron passed away in Wellington on 29 September after a short illness. Ron enjoyed a long career with the Ministry of Transport, and more recently as an Inspector with the New Zealand Police. Many of us recall his time with the Mt Albert City Council as a Traffic Officer. Ron is survived by his partner of many years, Teina and his son Kruger and daughter Katie Anna, Stepfather to Kristiaan, Steven, BJ and Christine plus many grand children. A celebration of Ron's life was held in the Cornwall Manor, cnr Cornwall Street and Knights Road, Lower Hutt, on Saturday 5 October at 1.00pm, followed by private cremation.

Ron was a very active member of the VHF Group some 35 years ago when we were raising funds for the Klondyke project. He served on the committee from 1984 to 1986, became Project Manager in 1987 and Vice President from 1988 to 1989. In 1990 he was President for a period of two years. Shortly after this, Ron moved to Wellington with NZ Police.

Ron's enthusiasm and contacts with all manner of people and companies resulted in some very good "deals" with the supply of items needed for the Klondyke project and also some trading which brought in much needed funds for the project and contributed to the range of components for sale on our Trading Table.

Farewell Ron, RIP.



## Notes from Here and There

### National System Interference

The National System has seen a recent recurrence of unidentified transmissions, bad language, music and siren noises. The trustees have narrowed down some of these noise sources to the Manawatu and Wellington areas. Members in those areas are being asked to listen on the local node input frequency (434.975 MHz for Wharite and 434.875 MHz for Belmont) to see if they can hear anything. Reporting this to one of the trustees will help with DF'ing the interferers.

It is important not to respond or react to the illegal operator as they are often doing their actions to create some type of response. The only response we want them to get is a knock on the door from the RI!

Thanks Q-Bit Sep 2019.

### Kordia National System Award 2020

The Wellington VHF Group is running the 2020 Kordia National System Award and this time it is actually a National Systems award (the UHF National System and the DMR National System). More details to come, but the theme of the award is Telephone Exchanges.

The award will run from Saturday 21 December 2019 until Friday 31 January 2020. Points are awarded for working a station at an exchange, and points from activation of an exchange, as well as for the number of contacts made while activating an exchange. Contacts on the DMR system must be on the ZL talkgroup, and these contacts are worth 1.5 points compared to contacts on the analogue National System.

So start thinking about where the telephone exchanges are, and the Wellington VHF Group would love to hear any questions you come up with before the full contest rules are published. Questions can be sent to [info@vhf.nz](mailto:info@vhf.nz)

### Microwaves—"As Easy As 1—2—2"

Fancy trying your hand at building a transceiver for the 2.4cm Band? - That's 122 GHz in other words. Andrew Andersen VK3CV has designed a transceivers using I.C.'s developed for vehicle anti collision radar. Although only 0.5mW out, already VK amateurs using his design have achieved distances of nearly 70km on this band. You can find out more here:

<https://groups.io/g/VK2-Microwave-Users-Group/attachment/388/0/As%20Easy%20as%20122GHz%2007%202019.pdf>

**The San Bernardino Microwave Society's** October newsletter contains an interesting article on new ways of generating / synthesising microwave frequencies. The article takes a look at a few new products affordable to Amateurs with the stability and frequency accuracy for use in microwave systems. The newsletter can be found here: <http://www.ham-radio.com/sbms/newsletters/2019nwsltrs/10sbms2019.pdf>

**WESTERN SUBURBS RADIO CLUB BRANCH 03**

**FOUNDED: 1931** (New Lynn Radio Group)

**1948:** Auckland West Branch    **later:** Western Suburbs Radio Club

**PO BOX 15-122 NEW LYNN 0640 AUCKLAND**

**EQUIPMENT SALE**

**SATURDAY 2nd NOVEMBER 2019**

at the **ROSEBANK ROAD PRIMARY SCHOOL HALL**  
**217 ROSEBANK ROAD, AVONDALE**

**IT IS A LOVELY BIG HALL AND HAS PLENTY OF PARKING**

TABLES ARE **10.00 EACH PRE-PAID BEFORE SALE DATE.**

**OR ON THE DAY OF THE SALE IF STILL AVAILABLE.**

**SELLERS** from 08-00 hrs.

**BUYERS** from 09-00 hrs

Bookings and Payments to Merv, ZL1SK on 828-7174 or 027-499-0262

Or email [mervthomasmisic@gmail.com](mailto:mervthomasmisic@gmail.com)

By *cheque* to our post office box **(above)**; or

*On Line* to BNZ account: 02 0184 0030318 00

*On Line* payments please **identify yourself** clearly

A **\$2-00** entry fee for ALL visitors to the sale.

**SALE CLOSSES AT MIDDAY.**

CAFETERIA with HOT SAUSAGES, biscuits, tea or coffee available onsite.

-----  
This year there will separate tables provided by WSRC for the

**VHF Group Repeater tower upgrade fund,**

and for the

**ZL1OSL Bureau operators Peter ZL1AAM and Brenda Scott.**

Come and check-out if you have QSL's waiting for you and maybe drop them a stamped addressed envelope for your next bunch of cards.

ALL N.Z.A.R.T. BRANCHES, **PRIVATE and COMMERCIAL VENDORS**  
ARE MORE THAN WELCOME.

ANYTHING ELECTRICAL, ELECTRICAL TOOLS, ELECTRONIC, ANTENNA,  
COMPUTER RELATED ETC; even DIY household tools & equipment are acceptable.

## Software Defined Workshops

The last workshop conducted by Graham ZL1GH looked at software running on a Windows platform. Most of those taking part are running one of the Windows based SDR software packages so we had an interesting evening with Graham doing his best to show what could be done. Graham's preference is for a Linux environment, so not all the different Windows based software ran as expected :-)

The next SDR Workshop (#3) will now be held at **19:30 on Wednesday 16 October** and not as previously stated on the 9th.

The reason for this change of date is that on the evening our focus will be the SDR package WSJT-X and the FT8 mode in particular. The HF dipole is only going to be set up at the VHF Group clubrooms on the morning of Monday the 14th and tested later that evening prior to the regular monthly meeting. The guest speaker at the VHF Group's Monday 14th General Meeting may cover VHF Direction Finding amongst other topics so that should be a good run up to the November meeting where we are hoping to have the designer and developer of the RTL-SDR hardware present his latest moves with a 4-channel coherent RTL-SDR board.

I am trying to organise a mechanism where I can distribute the audio signal from reception of the FT8 traffic on either 14.074 MHz or 7.074MHz from one of my receivers to the participants laptops.

I recall that one or two of you are employed in the audio engineering field, and would appreciate it if either/both of you could ping me by email as I would like to explore what options I could choose from in distributing an audio signal to the participants laptops - terminating in a number of 3.5mm jacks to plug into the audio in ports of the laptops.

In case we cannot get a satisfactory audio feed established from live FT8 traffic, I will bring a USB drive with saved files that we can use to decode to exercise the software.

I shall be showing the WSJT-X software running on Linux and on Raspbian on a Raspberry Pi 3B+, if any of you have had a good experience running WSJT-X on Windows you could share that experience and perhaps demonstrate it to us all.

We can also cover the different forks (independently developed versions) of the original software and what is involved in building it from the source code.

If any one has any question, or suggestions for inclusion in the evening, please let me know and I will do my best to respond promptly.

73s

Graham Hay, ZL1GH



Painting the outside of the clubrooms is now complete. The entrance way steps were the last item to be painted and are now a splendid VHF blue. Thanks to Dave ZL1TIA we also have some anti-slip tape. Still to come—the handrails! We are maintaining contact with the Puketepapa Local Board regarding the carpark and getting the macrocarpa trees trimmed back—maybe this summer?



**Amateur Radio Emergency Communication.  
Volunteers in radio communications.  
Using our resources to help the community.**

**INFORMATION**

The Auckland VHF Group has an AREC Group that works closely with Auckland Council Emergency Management. They provide advice, resources and manpower to assist in times of need.

The AREC section is headed by Group Leader Laurie Mathews ZL1ICU.

From time to time the VHF Group has training sessions and exercises. Members also assist with sports events, parades and other community activities. For further information about AREC please see the NZART web site: <http://www.nzart.org.nz/arec/>

**JOIN BRANCH 66 AREC**

All members of the Auckland VHF Group are encouraged to join the AREC section. Your contribution, large or small is appreciated by all involved. For further information about joining Branch 66 AREC contact the Group Leader:

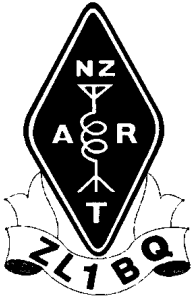
Laurie Mathews ZL1ICU 634 5130 0274 817 463 [perma@xtra.co.nz](mailto:perma@xtra.co.nz)

\*\*\*\*\*

**AREC News:**

Onehunga Heritage Walks - 9 October. Operators wanted to assist. Contact Laurie ZL1ICU if you can help. Meet at the "Block House" at 10am, walks start at 10.30am.

Farmers Parade - 24 November. Operators wanted to assist with this event.



## AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR SUBSCRIPTION

### SUBSCRIPTIONS FOR 2020

THE SUBS GO TOWARDS;

- Maintenance and on-going improvements to beacons, repeaters and linking systems for the national system, including the Klondyke repeater site.
- Providing on-time and free access to spectrum magazine as soon as it is available.
- Providing facilities for good speakers and lecturers at our general meetings.
- Discounted access to our trading table goodies.
- Access to test equipment and technical help when needed.

FULL MEMBERSHIP **\$50.00**

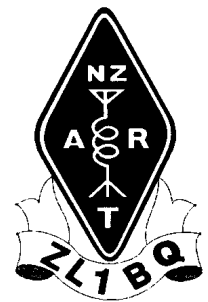
ASSOCIATE MEMBERSHIP **\$44.00**

FAMILY MEMBERSHIP ADDITIONAL **\$10:00**

***SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)***

**REMEMBER TO KEEP US INFORMED OF YOUR EMAIL ADDRESS!**

**OTHERWISE WE CANNOT SEND YOU SPECTRUM!**



**Thought for the month:**

When I find it, I don't need it. When I need it, I can't find it.

<b>NAME</b>	<b>Mr/Mrs/Miss/Ms</b>	<b>Christian or given</b>	<b>Surname</b>
<b>Address</b>			
		Phone: (home)	
		Phone: (work)	
		Phone (Cell)	
		Email	
<b>Occupation:</b>		<b>Callsign</b>	
<b>NZART Member</b>		<b>Branch assigned</b>	
<b>AREC Member</b>		<b>Branch assigned</b>	
<b>Category</b>			<b>To pay</b>
<b>Membership</b>	Full	\$50:00	\$
<b>New/Renewal/ Change</b>	Associate	\$44:00	\$
<b>Receipt #</b>	Family Add	\$10:00	\$
<b>Donations</b>	Auckland/Klondyke		\$
	Brynderwyn		\$
	Data/D-Star		\$
	IRLP		\$
	Other		
	Beacon / Repeater / Links / Licence donations		\$
		<b>Total</b>	\$
<b>Payment</b>			
Circle one -->	Cash	Cheque	Internet deposit
Invoice/Statement re- quired	Please Advise Treasurer		
<b>Internet</b>	<p>To account <b>ASB 12-3011-0830580-00</b>. Account name is: Auckland VHF Group Inc. Include your <b>Name/Callsign</b> and Sub or <b>RepeatDon</b> etc in particulars field, for us to track. To sponsor a specific repeater, nominate the repeater and a backup repeater for the donation, in case the initial choice has been taken. The sponsorship is a minimum of \$50.00 which covers the licence for a year. <b>Note:</b> Please return the Form to the email or postal address given below to allow us to update our records.  <b>(Please Note the Account Number and email may have changed from last year)</b>  <b>Email to: treasurer@aucklandvhfgroup.org.nz</b></p>		
<b>Post</b>	The Treasurer, Auckland VHF Group Inc., PO Box 10138, Dominion Road, Auckland 1446.		
<b>In Person</b>	Bring this form and payment to the next club meeting, 2 <sup>nd</sup> Monday of the month or to the Committee meeting last Monday of the month.		



***The Auckland VHF Group Inc Branch 66 NZART***  
*gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and Fixed Links license fees and the Group's repeater operations by the following radio amateurs and NZART Branches for 2019*

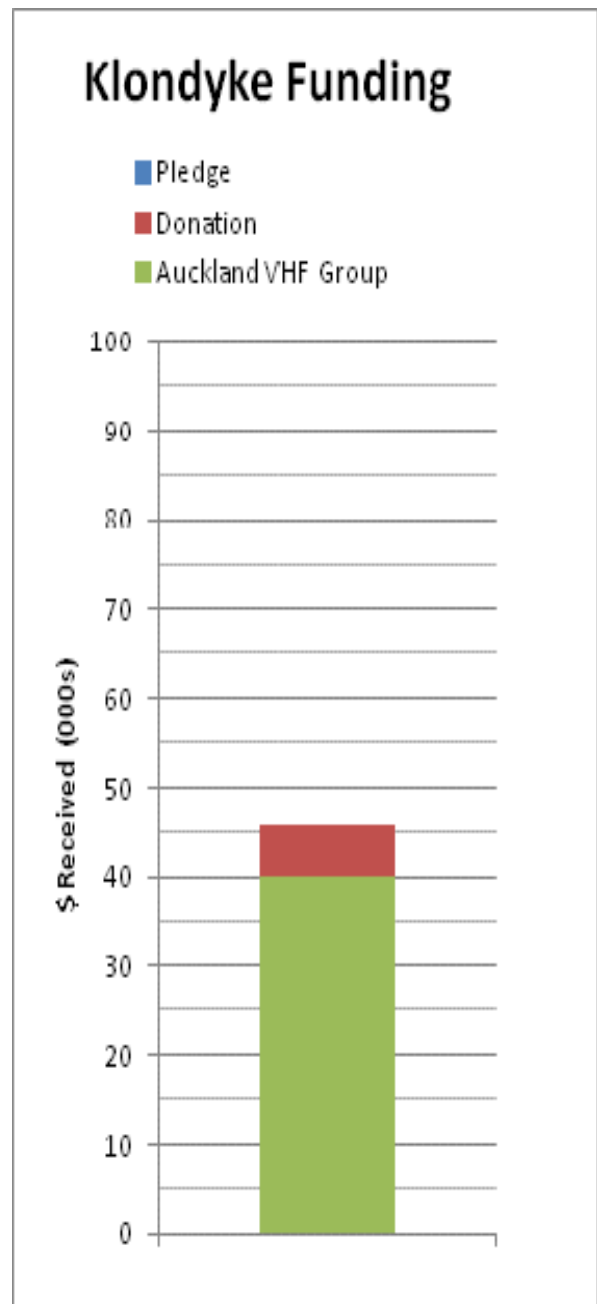
<u>Repeater frequency</u> and name	Repeater location	Sponsorship advised for 2019	Amount paid
53.725 Repeater	Klondyke Road	Gwynne Rowe	\$50
144.253 Beacon	Nihotupu	Not operating	
145.625 Data Rptr	Klondyke Road	Not operating	
145.650 Dstar repeater	Klondyke Road	Laurie Mathews	\$50
146.625 Repeater	Klondyke Road	Laurie Mathews	\$50
146.700 Repeater	Ruaotuhenua	Dennis Thorton	\$50
146.900 Repeater	Mt Puketutu Radio	David Wilkins	\$50
432.253 Beacon	Nihotupu	<b>Stability testing</b>	
438.175 Dstar repeater	Klondyke Road	Laurie Mathews	\$50
438.500 Repeater	North Head	Not operating	
439.850 Link Tx to Kaimai	Klondyke Road	Franklin Radio Club	\$50
439.875 Ak Nat Sys Rptr	Klondyke Road	Franklin Radio Club	\$50
439.900 Link Tx to Egmont	Klondyke Road	Franklin Radio Club	\$50
439.950 Link Tx to Brynderwyn	Klondyke Road	Franklin Radio Club	\$50
1291.9 Repeater	217 Glenfield Rd	Soren Low	55.00
		<b>Total Sponsorship</b>	<b>\$555</b>
<b>NZART Inc: Branch/Personal donations</b>			
<b>Manakau Branch</b>			\$100
<b>Papakura Radio Club</b>			\$500
<b>Helicopter Trust (Brynderwyn)</b>			\$360
<b>Auckland Branch</b>			\$100
<b>Compass Communications</b>			\$2,760
	<b>Donations</b>		<b>\$3,820</b>
<b>Current as at 05/05/2019</b>			

*The Auckland VHF Group, Branch 66, would like to thank all those who came forward to sponsor the licence fee for our Beacons, Repeaters or Fixed Links for the year 2019 or donate towards the Group's repeater Operations.*

**Target 100,000**

Name	Donation	Pledge
Western Suburbs Radio Club	200.00	
Michael Sheffield ZL1ABS	500.00	
Ross Glover ZL1BGB	50.00	
Andrew Brill ZL1COP	100.00	
Martyn Seay ZL3CK	50.00	
Aaron Pelly ZL1FAT	10.00	
Cris Hodgetts ZL1CLH	20.00	
David Crosier ZL1THF	20.00	
Ann Walker ZL1BFB	20.00	
Bruce Churcher ZL1BLB	20.00	
Klondyke Raffle @ Western Suburbs	160.00	
Dennis Thornton ZL1TAY	50.00	
George Raffles ZL1TUX	100.00	
Keith Dix ZL1BQE	100.00	
Franklin Radio Club ZL1SA	800.00	
Terry Corin ZL1BPA	1000.00	
Keily Peterson ZL1KM	150.00	
Gilbert Eckroyd ZL2EK	100.00	
David Blackett ZL1AD	50.00	
Ian Sexton ZL1PZ	500.00	
Auckland Branch 02 ZL1AA	100.00	
Ralph & Rosemary Boshier	40.00	
Nick Emery ZL1BOP	50.00	
Kelvin McLean ZL1AKM	20.00	
Soren Low ZL1SKL	100.00	
North Shore Radio Club	1500.00	
Brendon Reid ZL1XXX	20.00	
Auckland Branch 02 ZL1AA	500.00	
Gary Ball ZL1FAB	20.00	
<b>Total</b>	<b>6350.00</b>	<b>-</b>
<b>Percent</b>	<b>6.35</b>	<b>0.00</b>

Tower	63,245.00	Other	27,268.25
GST	9,486.75		
<b>Total</b>	<b>72,731.75</b>	<b>Total</b>	<b>27,268.25</b>
Auckland VHF Group	40,000.00		40.00



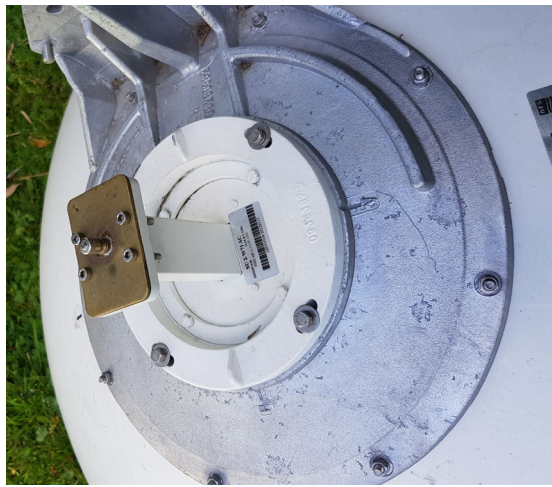
## TRADING TABLE

Currently our Trading Table is only open on meeting nights.

**Resistors:** We are no longer going to stock the standard 1/4W carbon film resistors on the Trading Table. Any members wanting to stock up on resistors before they are otherwise disposed of – come along to the next meeting and help yourselves.

The shelf space currently taken up by resistors will be used to display other Trading Table stock items. Watch this space for details.

### Microwave Dishes for Sale:



Radio Frequency Systems type SU-2 (2 foot diameter). Ex ZL1EME estate. Dish has a WG71 feed and the radome has a front cover. Feed focal point is 210mm.

**Microwave Dishes Cont:**

Andrews Gridpack type 200245—Sorry no other information available.



All these microwave dishes are stored at the Clubrooms. Contact the Trading Table Manager if interested.



Radio Frequency Systems Type SU 4-90. 4' (1.2 m) Design frequency range 17.7 to 19.7 GHz. Gain mid band: 44.6 dBi.

