

The

NEWSCASTER

The Official Publication of the Winnipeg Amateur Radio Club http://www.mts.net/~warc

November 2009

IRLP # 1066 on VE4WRS 145.450-

VE4BB

Programming Tones Into Your Rig By Derek, VE4HAY

Date: Monday, November 9, 2009

Time: 7:30 PM

Place: Dakota Collegiate - (In the theatre)

661 Dakota Street (At Beliveau Rd.)

Other Important Dates...

WARC: Monthly Meeting Dates

December 14, 2009 January 11, 2010

WSC: 2nd Thursday of month

Breakfast—Garden City Inn

ARES: November 17, 2009

Other:

And now a word from the President By Mark, VE4MAB

I hate to say it, but I hope your yard work is done and antennas are in place because the cooler weather is indeed setting in which also means it's time to heat up the shack and start tuning the dials for some serious Ham Radio!

There seems to be no end to the possibilities! Which started simple has gotten quite technical. From the early spark gap to talking to the world on an HT from the coffee shop through IRLP. (Great way to pull a fast one on the Cell Phone companies!)

Although we can't control or have any luck with the current lack of a sunspot cycle, we do have some control over what happens here on earth, which is where Derek's presentation planned for our November meeting is all about.....

Using CTCSS to control interferences we find on local repeaters and how to program them into your rig.

Now if only the sunspots would cooperate! Whatever interests you make it your challenge. After all, that's what the fun is all about.

Stay Tuned!

WARC Executive for 2009-2010...

President Mark Blumm ve4mab@rac.ca Vice-Pres. Garth Blumm ve4gwb@gmail.com Treasurer Bob Jacobs rcjacobs@mts.net Secretary Jim Sutton Jim.Sutton@AAAalarms.ca Membership Garth Blumm ve4gwb@gmail.com Programs Mark Blumm ve4mab@rac.ca Director @ Large Vacant

ve4baw@rac.ca

Congratulations to Geoff Bawden, VE4BAW

After serving radio amateurs in both Winnipeg and Manitoba as President of the Winnipeg Amateur Radio Club Geoff Bawden has been ...

Elected President
Radio Amateurs of Canada for 2010

Our Vision

Past President Geoff Bawden

To increase public awareness and respect for Amateur radio; to provide education and support in all aspects of the hobby to our members in a social atmosphere

WARC Meeting Minutes, October 19/09 Taken by Jim, VE4SIG

Introductions

Review of minutes of Previous Meeting moved to approve by VE4HK & 2nded by VE4DAR

Any Business arising from those Minutes -none

Correspondence

Some membership renewals arrived

Committee Reports

DX - VE4SN

No sunspots but conditions have improved dramatically; on CW Europe comes in 1100-1300 hrs and dinner time also Japan, (Midway Island Dxpedition 5-7 on phone). Also heardLuxembourg Dxpedition on CW 20+9

RAC - VE4HAY

Although we got our exemption in Mb Bill 5; On has been given a 3 year grace period to move to Handsfree. SK & BC are also supposed to have bills in the works;

Amateur Radio Service Centre Industry Canada

P.O. Box 9654, Postal Station T Ottawa, Ontario, K1G 6K9 Telephone: (613) 780-3333 Toll free: (888) 780-3333 Fax: (613) 998-5919

E-mail: spectrum.amateur@ic.gc.ca http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/en /h_sf01709e.html

> IRLP Node 1066 145.450 MHz -600 KHz (VE4WRS)

Comments or if you just want to reach us:

Winnipeg Amateur Radio Club C/O VE4WSC 598 St., Mary's Road Winnipeg, MB R2M 3L5

X*4006k4006k4006*

PQ& Maritimes have exemptions – be careful when you travel out of province!

A change coming to Club Insurance in Dec/Jan

ARES — VE4HK

next meeting is tomorrow nite (20 Oct 09) 1900hrs at Sir Wm Stephenson Library. It will be the AGM so no shows run the risk of being elected to the Executive.

Education—Nothing to report

Flea Market -VE4SE

Year	Attendance	Canteen profit	Tables sold
Oct 09	195	\$247.42	26
Apr 09	173	\$233.22	Historically 24-30
Apr 07	202	\$209.76	24-30

Questions Asked

Do we need 2 Flea Markets a year? Yes - Most people felt it was a good opportunity to get together Are the Start Times OK - Yes - gives out of town attendee's time to come in. Had attendees from Fort Frances; Brandon, Portage La Prairie.

Is 30 minutes sufficient setup time for Vendors – it was agreed 45 minutes is better.

Food – seemed to be enjoyed by all. 80 bunwiches made only 4 not sold. 33 muffins made – all sold. Positive remarks about the food. Facility setup is excellent at HVCC. Maintain the Status Quo.

Prizes – almost no one indicated they would not attend if there were not door prizes. Is this worth the effort of trying to award them?

PA system is unsuitable – how do you get peoples attention to announce winners – (VE4SIG – suggests – Cow bell or Air horn, siren – (I can supply) to get attention before using the PA system to make announcements).

Times – no one seems to know the times despite being announced on 2M net & in Newscaster & website. People showing up at 0900 when doors don't open till 0930 – put a sign on the front door with times!

VE4SIG suggestions/observations Have a supply of "My name is" stickers for those people not wearing Callsigned name tags/hats/jackets etc to put their name & callsign on. Put WARC table just inside the front reception area (right after the foyer) so people paying for membership aren't clogging up people pausing to get in — be close to an outlet and bring a extension cord to run laptop. Also have some information for the non-hams who show up. Hang the WARC banner (we do have a banner don't we)

This year announcements were sent out to a number of media outlets, KIJIJI etc – perhaps we need to inform neighboring clubs? TCA? GF? Fargo?

Have a club table – I have stuff in my basement I would donate for the club table – (bet everyone does). PRO's-more stuff for people to buy, cleans out the basement, added revenue to club. CONS – someone has to collect & price the stuff, man the table and then what happens with stuff not sold.

Finances -

Revenue	\$1086.45
Prizes	\$117.51
Food	\$121.03
Room Rental	\$75
Profit	

Next FleaMarket April (date TBA) Bob to book hall.

Treasurer—VE4RCJ

At start of Sept we had a balance of \$5544 and \$5730 at end of the month.

The draft budget was distributed and discussed. It was moved to vote by VE4DAR & 2nded by VE4HK – put to vote and passed.

Old Business

President reminded everyone we still need 2 people to flesh out the executive.

New Business

Xmas party is coming up – who wants to plan it?

Good & Welfare

Members were reminded that effective Oct 25th both Ve4WPG and VE4VJ repeaters will need a 127.3hz tone to be accessed. If you need help getting your radio programmed contact VE4VB and VE4AJO. VE4VZ informed everyone they can usually get a tone board installed in their radio if it is not tone capable. VE4 informed everyone they can run freeware on their PC

to supply tones for a base station.

Winner of 50/50 was VE4RA \$14.10

The winner of the door prize was VE4DDS who took a Tap & Die set home

Moved to adjourn

Presentation by VE4MAB on Foxhunting. Some mem bers expressed interest in the practical applications of this.

Foxhunting Antennas—Links

Tape Measure Beam -

http://home.att.net/~jleggio/projects/rdf/tape_bm.htm

RDF2 YAGI With Tape Measure Elementshttp://home.att.net/~jleggio/projects/rdf/snif_bm.htm

Radio Direction Finding Projects http://home.att.net/~jleggio/projects/rdf/rdf.htm

Building an offset Attenuator - http://www.homingin.com/joek0ov/offatten.html

RAC/ARES NATIONAL EMCOMM FREQUENCIES

SSB	Frequency	Tactical
75M - LSB	3.675 MHz	Alfa
40 M - LSB	7.135 MHz	Bravo
20 M - USB	14.135 MHz	Charlie
17 M - USB	18.135 MHz	Delta
15 M - USB	21.235 MHz	Echo
10 M - USB	28.235 MHz	Foxtrot
CW	Frequency	Tactical
80 M	3.535 MHz	Golf
40 M	7.035 MHz	Hotel
20 M	14.035 MHz	India
17 M	18.075 MHz	Juliette
15 M	21.035 MHz	Kilo
10 M	28.035 MHz	Lima
Digital	Frequency	Tactical
80M	3.596 MHz	Mike
40 M	7.096 MHz	November
40 M	7.096 MHz	November
20 M	14.096 MHz	Oscar
17 M	18.096 MHz	Papa
15 M	21.096 MHz	Quebec
10 M	28.096 MHz	Romeo

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WPGARES
By Jeff, VE4MBQ
Emergency Coordinator

Thanks to all who participated in the Winnipeg ARES Silent Auction during the WARC Flea Market SUN 18 OCT. Prize donors were:

VE4CRS
VE4DAR
VE4OL & Mary Bell
VE4ESX
VE4JNF
VE4PN
VE4SYM & VE4TRO
VE4HK & VE4MMG
VE4XYL & VE4SE
VE4YYL & VE4GWN
Terry Fox Foundation
Prairie Battery
Canada Safeway (Sargent Ave)
Boston Pizza (Portage Avenue)

Environment Canada
Whytewold Emporium
Linden Ridge Eye Care
CTV

CTV

Hilton Suites Kinetic Machine Works.

Prize winners were:

Lot 1 VE4GWB
Lot 2 VE4GWB
Lot 3 VE4JNF
Lot 4 VE3HWN
Lot 5 VE4RCJ
Lot 6 VE4JLD
Lot 7 Mary Bell.

Special thanks to Rosi VE4YYL and Glen VE4GWN for getting it all organized.

Nominations for the 2009-2010 Winnipeg ARES Executive opened at the conclusion of the SEP 2009 General Meeting and closed TUE 13 OCT. One nomination was received for each open position, therefore the nominees were elected by acclamation:

What have you done to "promote amateur radio this week"

That line we credit to an old News stalwart, Peter Parker with using in his old VK1 and VK3 casts many years ago and it still stands true -WIA

President Secretary Dick Maguire VE4HK
Treasurer Susan Collings VE4SYM.

During the Annual General Meeting the 2008-09 Financial Statement was approved and the 2009-10 Proposed Budget was approved. In the past year we were involved with the following:

Alerts, Call-Outs, Exercises & Tests 6
Public Service Events 5
Educational Meetings 11

A detailed summary has been provided to the membership.

Ellis Seddon VE4AJO and Jan Schippers VE4JS attended the City of Winnipeg WEM Course 20-23 OCT. Thanks to Ellis VE4AJO for programming in the 127.3 Hz tone on the EOC radios so that we can access VE4WPG in the future.

Thanks to Walter VE4VB for programming the necessary CTCSS tone into our old commercial Phoenix radio (normally kept in WFPS Mobile Command Unit). I programmed all tone-encode capable ARES HTs a couple of weeks ago and just need to program a few of our mobile radios by 25 OCT. Kent VE4KEH will look after the VE\$WWO radios and Don VE4DJ will look after the VE4EMO radio.

Thanks to David VE4DAR for donating an alkaline battery case for one of our HTX-202 HTs to replace one that was lost during Flood Operations.

Our next General Meeting is TUE 17 NOV Sir Wm Stephenson Library 765 Keewatin St.

We will start photographing Winnipeg ARES members for their new ARES ID cards by 1845h (maybe even by 1830h).

Scheduled Guest Speaker is Adam Cheadle from MPI Road Safety Programming and he will deliver a presentation on Winter Driving.



Speaking of Driving...
Get your Amateur Radio Operator VE4 Plate
Application on back cover

Amateur Radio / A Community Resource

Contest Calendar

Extracted From

http://www.hornucopia.com/contestcal/

High Speed Club CW Contest 0900Z-1100Z, Nov 1 and 1500Z-1700Z, Nov 1 0200Z-0400Z, Nov 3 ARS Spartan Sprint NCCC Sprint 0230Z-0300Z, Nov 5 NCCC Sprint 0230Z-0300Z, Nov 6 ARRL EME Contest 0000Z, Nov 7 to 2359Z, Nov 8 IPARC Contest, CW 0600Z-1000Z, Nov 7 and 1400Z-1800Z, Nov 7 Ukrainian DX Contest 1200Z, Nov 7 to 1200Z, Nov 8 ARRL Sweepstakes Contest, CW 2100Z, Nov 7 to 0300Z, Nov 9 NA Collegiate ARC Championship, CW 2100Z, Nov 7 to 0300Z, Nov 9 SKCC Weekend Sprint 0000Z-2400Z, Nov 8 IPARC Contest, SSB 0600Z-1000Z, Nov 8 and 1400Z-1800Z, Nov 8 **DARC 10-Meter Digital Contest** 1100Z-1700Z, Nov 8 RSGB 80m Club Sprint, SSB 2000Z-2130Z, Nov 12 NCCC Sprint 0230Z-0300Z, Nov 13 **Bill Windle QSO Party** 0000Z-2359Z, Nov 14 000Z, Nov 14 to 2359Z, Nov 15 WAE DX Contest, RTTY JIDX Phone Contest 0700Z, Nov 14 to 1300Z, Nov 15 OK/OM DX Contest, CW 1200Z, Nov 14 to 1200Z, Nov 15 **Kentucky QSO Party** 1400Z, Nov 14 to 0200Z, Nov 15 **CQ-WE Contest** 1900Z-2300Z, Nov 14 (CW/Digital) and 0100Z-0500Z, Nov 15 (Phone) and 1900Z-2300Z, Nov 15 (Phone) and 0100Z-0500Z, Nov 16 (CW/Digital) Run for the Bacon QRP Contest 0200Z-0400Z, Nov 16 NAQCC Straight Key/Bug Sprint 0130Z-0330Z, Nov 19 NCCC Sprint 0230Z-0300Z, Nov 20 YO International PSK31 Contest 1600Z-2200Z, Nov 20 SARL Field Day Contest 1000Z, Nov 21 to 1000Z, Nov 22 **Feld Hell Sprint** 1200Z-1600Z, Nov 21 LZ DX Contest 1200Z, Nov 21 to 1200Z, Nov 22 All Austrian 160-Meter Contest 600Z, Nov 21 to 0700Z, Nov 22 2100Z, Nov 21 to ARRL Sweepstakes Contest, SSB 0300Z, Nov 23 RSGB 2nd 1.8 MHz Contest, CW 2100Z, Nov 21 to 0100Z, Nov 22 NA Collegiate ARC Championship, SSB 2100Z, Nov 21 to 0300Z, Nov 23 EU PSK63 QSO Party 0000Z-2400Z, Nov 22 SKCC Sprint 0000Z-0200Z, Nov 25 2000Z-2130Z, Nov 25 RSGB 80m Club Sprint, CW NCCC Sprint 0230Z-0300Z, Nov 27 0000Z, Nov 28 to 2400Z, Nov 29 CQ Worldwide DX Contest, CW

Good Luck In The Contest!!





VE4BAW resigns from Chair of Marathon Amateur Radio Committee By Geoff, VE4BAW

Be advised that I will be resigning from the Marathon amateur radio committee effective January 1st [at the latest].

I note that the reason that I undertook leadership of the Marathon committee was that after many years of effective management both Jeff [ve4mbq] and Rob [ve4rst] decided to take a well deserved sabbatical. It seemed that without an intervention to provide leadership that there would be no amateur radio support at the Marathon.. That would have been in my view almost a crime due to the many years of support that amateur radio had given to the Marathon and the ongoing enthusiasm of radio amateurs.

I want to thank Albert [va4as] for agreeing to provide desktop publishing services [a new and effective process] and Don [ve4dwg] for his hard work at producing a data base. I want to thank John [ve4jnf] for his enthusiastic work and very supportive and positive attitude ... these three made it possible for the committee to succeed. Derek [ve4hay] and Norm ve4eh] were and continue to be stellar in their role as NCS for their respective nets.

I offer no opinion as to the formation of the 2010 committee [wow that date seems science fiction] ... but I am sure that this activity will be in good hands.

I will not be calling any additional Marathon meetings. I suggest that Jeff [ve4mbq] consider calling a meeting at an appropriate time to sort out the committee structure for 2010. I will advise the Marathon authorities.

Geoff VE4BAW

Thanks Geoff for all your hard work!

News From The Net

RAC Bulletin 2009 34E Canadian Experiments at 500kHz authorized

After months of negotiations between RAC and Industry Canada over the details of the licence applications and reporting conditions, the first two licences granted to Canadians for experiments at 504 – 509 kHz in preparation for WRC-12 have been issued by Industry Canada (see RAC Bulletin 2008-29).

Jack Leahy, VE1ZZ, has been assigned call sign VX9PSO in the Developmental Service for his experimental transmissions. Joe Craig, VO1NA, has been assigned call sign VX9MRC. Both of these stations have been on the air already, with VX9PSO having been reported at 504.6 kHz and VX9MRC at 507.77 kHz. Signal reports can be addressed to the operators at their call book addresses.

Two more authorizations, in Ontario and British Columbia, are expected soon.

Richard Ferch, VE3KI Vice President, Regulatory Affairs - Radio Amateurs of Canada

RAC Bulletin 2009 32E Military radiolocation system to operate on 70cm

As described in Schedule I of RBR-4, amateur usage of the 430-450 MHz (70 cm) band is on a no-protection, non-interference basis. Amateurs may not cause interference to nor be protected from interference from stations licensed in other services operating in that band. The same is true in the United States, and amateur operations on this band in a number of areas of the United States have power limits imposed on them in order to avoid interference to radiolocation services operated by the US military.

Industry Canada has informed RAC that it has authorized the Department of National Defence to use a digital system called Enhanced Position Location Reporting System (EPLRS) on these frequencies. The EPLRS system consists of mobile, fixed, transportable and airborne stations that use 5 MHz-wide spread spectrum channels to provide strategic telemetry information for military platforms.

This authorization is on a no-protection, noninterference basis, which means that no new restrictions will be imposed on Canadian amateur operations in this band as a result.

Industry Canada has informed RAC that there is a slight potential for interference to amateur radio systems, typically in the form of a minor audible clicking noise. If Canadian amateurs encounter such interference, they are requested to report it to RAC at regulatory@rac.ca. The information reported should include the geographical location, date, time, frequency and mode being used by the amateur station, and a description of the interference.

Questions or concerns regarding the planned implementation of EPLRS may be sent to regulatory@rac.ca.

Richard Ferch, VE3KI Vice President, Regulatory Affairs - Radio Amateurs of Canada

RAC Bulletin IARU Announces "GlobalSET 2009"

On Saturday November 14, 2009, from 1800 to 2200 UTC, the International Amateur Radio Union will activate "GlobalSET 2009", a Global Simulated Emergency Test that encourages Hams to pass simulated emergency traffic using standard National Traffic System format.

The Radio Amateurs of Canada, a member society of IARU Region 2, encourages all Canadian Radio Amateurs having an interest in emergency communications to participate.

Rules and a list of participating stations may be found at http://www.iaru-r1.org. Search under the heading, "Emergency Communications", working group.

This is great opportunity for RAC members to observe and practice important traffic passing skills that are so important to the fundamentals of the Amateur Radio Emergency Service.

Those Amateurs planning to participate are requested to register with the RAC Vice President for Field Services as soon as possible by emailing voldtm@hotmail.com.

Doug Mercer VO1DTM (RAC CEC)

Vice President Field Services

Radio Amateurs of Canada Inc.



Flea Market Photos By, Jim, VE4SIG

Our Fall Flea Market was once again a blast, not to mention a great success!



Vendors Moving In!



Buyers enjoying Eyeball QSOs



Scrambling for all the great

Junque!

Our Next Flea Market will be in April 2010

In the meantime there is the Swap N' Shop on the MRS nets!

www.ve4sss.ca/swapnshop.html

VHF Nets

MRS Nets - 147.390 Mhz + Sundays & Thursdays at 9:00 pm

This net covers Winnipeg and the MRS linked repeater system, and includes various announcements on amateur radio activities, plus Dick's "Swap and Shop"

Seniors Morning Net 147.390+ Mhz Weekdays at 9:00 am

This net covers Winnipeg and hams of all ages are welcome to join in this net which is always a lot of fun!

IRLP(Internet Radio Linking Project) Net - 145.450 Mhz - Node # 1066 Wednesdays at 8:00 pm

This net connects you with the world using your VHF rig and using the internet as the backbone!

Six Meter Net - 50.238 Mhz Wednesdays at 9:00 pm

HF Nets

MB Evening Phone Net - 3760 Khz Daily at 7:00 PM CT

Prairie Traffic Net (CW) 3660 Khz Daily at 01:30 UTC

Aurora # 2 Net 7055 Khz Daily at 02:30 UTC

MB Wx Net 3743 Khz Daily at 8:30 AM C

Newscaster By, Mark, VE4MAB

Your submissions make it "Your Newscaster".

For the December issue, please send in your submissions no later than December 2, 2009 to:

Mark VE4MAB - ve4mab@rac.ca

The Newscaster is the Official Publication of
Winnipeg Amateur Radio Club
Please send your submissions/comments to the editor
Mark Blumm, VE4MAB at ve4mab@rac.ca

Application for New or Replacement Personalized or Amateur Radio Operator Licence Plates (VE4)

Demande ou remplacement de plaques d'immatriculation personnalisées ou de radio-amateur (VE4)

Signature of cardholder: _

GST Reg. No. **R107863847** GST receipt required for I.T.C.

Registered Owner Information - This section MUST be completed.

Registered Owner Information - This section MUST be completed. Titulaire du certificat d'immatriculation - Cette partie DOIT être remplie. MPI Customer Number N° de client SAPM		-866-798-1185 204-953-4998	Sans frais Téléc. :	: 1-866-798 204-953-4		
or D.L Number N° de permis	Note: If you intend to give the plate as a gift, please provide your contact information below. Remarque: S'il s'agit d'un cadeau, indiquez vos coordonnées ci-dessous.					
Surname / Nom Given Name(s) / Prénom	Donor's Surname / Nom de famille du donneur Given Name(s) / Prénd) / Prénom	
Address / Adresse	Address / Ad	dresse				
City or Town / Ville Postal Code / Code postal	City or Town	City or Town / Ville Postal Code / Code po			Code posta	
Daytime Telephone Number / Numéro de téléphone (jour)	Daytime Tele	Daytime Telephone Number / Numéro de téléphone (jour)				
Plate is for ☐ Passenger Car / Truck / Automobile / Camion Type de plaque ☐ Motorcycle / Moped / Motocyclette / Cyclomoteur						
			ant / Signature du d	emandeur 		
Personalized Licence Plate - Print your choices in order of preference in the boxes prov Plaque d'immatriculation personnalisée - Inscrivez vos choix de formule en ordre de p Veuillez indiquer, le cas échéant, les traits d'union ou les espaces. Explanation of Explication des First Choice	Fee GST Total					
Second Choice Deuxième choix Third Choice Troisième choix	TPS	Droits TPS Montant dû				
Amateur Radio Operator Licence Plate (VE4) - Return this application with a copy Plaque d'immatriculation de radio-amateur (VE4) - Annexez une copie de votre présente demande. Please indicate if you would like a space between VE4 and the call letters. Veuillez indiquer si vous désirez un espace entre VE4 et l'indicatif d'appel.		pétence en radioamateur a	à la GST Total Droits TPS	amount due	\$25.00 \$1.25 \$26.25 25,00 \$ 1,25 \$ 26,25 \$	
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Remplacement d'une plaque d'immatriculation personnalisée Veuillez indiquer la plaque d'immatriculation à refaire.			Droits TPS Mont a	ant dû	25,00 \$ 1,25 \$ 26,25 \$	
Payment Instructions Return this application with your cheque (Manitoba residents only) or money order payable to MANITOBA PUBLIC INSURANCE. DO NOT SEND CASH. If your application is denied, your cheque or money order will be returned to you.	Renvoyez ce ou d'un ma MANITOBA	de paiement e formulaire accompagné ndat libellé au nom de la a. N'ENVOYEZ PAS D'ESF rons votre chèque ou mar	a SOCIÉTÉ D'ASSU PÈCES. Si votre den	IRANCE PUBLIC	QUE DU	
Cash or debit card in person only.	1. Espèces	ou carte de débit en pers	onne seulement.			
2. Enclosed is a cheque (Manitoba residents only) or money order for \$ made payable to Manitoba Public Insurance.	Vous trouverez ci-joint un chèque (résidents du Manitoba seulement) ou mandat au montant de\$ à l'ordre de la Société d'assurance publique du Manitoba.					
3. Credit Card: ☐ MasterCard ☐ Visa	3. Carte de crédit : ☐ MasterCard ☐ Visa					
Card number: Expiry date:	Numéro de	la carte :				
Name on card (please print):	<i>'</i>	Date d'expiration :				
	Nom figurar	nt sur la carte (en lettres m	nuláes) ·			

Signature du titulaire :

Nº d'inscription TPS R107863847 Reçu de TPS demandé pour C.T.I.

Manitoba

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100-234 Donald Street

Winnipeg MB R3C 4A4

Box 6300

Public Insurance

Société d'assurance

publique du Manitoba

Immatriculation des véhicules commerciaux

204-985-7722

Plaques d'immatriculation personnalisées

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Winnipeg MB R3C 4A4

C.P. 6300

Tél.: