

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	525851
Licensee	NEW SOUTH WALES GOVERNMENT TELECOMMUNICATIONS AUTHORITY
Trading name	Telco Authority (PSN)
Licensee address	Locked Bag 2, HAYMARKET, NSW 1240

## Licence details

Licence service	Land Mobile
Licence subservice	Land Mobile System - > 30MHz
Licence number	471966/2
Callsign	VH2RAH
Date of issue	27/11/2023
Date of effect	27/11/2023
Date of expiry	30/06/2024

## Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

### Rights of appeal

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

### Important

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

## ACMA contact details

Customer Service Centre  
PO Box 78  
BELCONNEN ACT 2616

Telephone: 1300 850 115  
Email: [info@acma.gov.au](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

## **Special Conditions applying to licence no.: 471966/2**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

## **Advisory Notes applying to licence no.: 471966/2**

Conditions applicable to the operation of Land Mobile System station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Land Mobile Licence) Determination. Copies of these determinations are available from the ACMA and from the ACMA home page ([www.acma.gov.au](http://www.acma.gov.au)).

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 1:

#### Site details

Site ID	4378
Site address	Comms (Telstra) Monopole Sydney Water Board Site, off Plateau Road, BILGOLA PLATEAU NSW 2107
Co-ordinates (GDA94)	Latitude: -33.6432352 Longitude: 151.31414522

#### Transmitter details

Assigned frequency	416.262500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603837
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

#### Receiver details

Assigned frequency	406.812500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603840
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 1

An efficient cavity filter must be fitted between the receiver and the antenna.

An efficient cavity filter must be fitted between the transmitter and the antenna.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 2:

#### Site details

Site ID	134146
Site address	Macquarie Park Metro Station (Underground), MACQUARIE PARK NSW 2113
Co-ordinates (GDA94)	Latitude: -33.78503258 Longitude: 151.12854733

#### Transmitter details

Assigned frequency	416.262500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603831
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F9W

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

#### Receiver details

Assigned frequency	406.812500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603832
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F9W

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 2

An efficient cavity filter must be fitted between the receiver and the antenna.

An efficient cavity filter must be fitted between the transmitter and the antenna.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 3:

#### Site details

Site ID	136295
Site address	Telstra GRN Site Lane cove tunnel ventilation tower, Marden street, ARTARMON NSW 2064
Co-ordinates (GDA94)	Latitude: -33.81517007 Longitude: 151.1786227

#### Transmitter details

Assigned frequency	416.262500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603833
Transmitter power	50.00 W
EIRP	41.00 W
Emission designator	10K1F9W

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

#### Receiver details

Assigned frequency	406.812500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603834
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F9W

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 3

An efficient cavity filter must be fitted between the receiver and the antenna.

An efficient cavity filter must be fitted between the transmitter and the antenna.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 4:

#### Site details

Site ID	9001649
Site address	Transport Interchange Complex, CHATSWOOD NSW 2067
Co-ordinates (GDA94)	Latitude: -33.79771709 Longitude: 151.18075243

#### Transmitter details

Assigned frequency	416.262500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603835
Transmitter power	25.00 W
EIRP	41.00 W
Emission designator	10K1F9W

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

#### Receiver details

Assigned frequency	406.812500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000603836
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F9W

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

### Special Conditions applying to Station 4

An efficient cavity filter must be fitted between the receiver and the antenna.

An efficient cavity filter must be fitted between the transmitter and the antenna.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 5:

#### Site details

Site ID	9026268		
Site address	NWRL Underground Repeater, Showground Railway Station, CASTLE HILL NSW 2154		
Co-ordinates (GDA94)	Latitude: -33.72773804	Longitude:	150.98710201

#### Transmitter details

Assigned frequency	416.262500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002328090
Transmitter power	8.30 W
EIRP	8.30 W
Emission designator	10K1F3E

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

#### Receiver details

Assigned frequency	406.812500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002328091
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

#### Antenna details

Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z