



**Australian  
Broadcasting  
Authority**

# **LICENCE AREA PLAN GEELONG RADIO**

**JUNE 2000**

## LICENCE AREA PLAN - GEELONG RADIO – JUNE 2000

### DETERMINATION

The Australian Broadcasting Authority hereby makes this plan for broadcasting services in the Geelong area of Victoria, under subsection 26(1) of the *Broadcasting Services Act 1992*.

Two commercial radio broadcasting services, two community and one open narrowcasting radio service are to be available in the area described at Attachment 1.1 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 1.1 are set out in Schedule One and Attachments 1.2 - 1.7 to this Determination.

One community radio broadcasting service and one open narrowcasting radio service are to be available in the area described at Attachment 2.1 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 2.1 are set out in Schedule Two and Attachments 2.2 – 2.3 to this Determination.

(Determined by the Australian Broadcasting Authority on 22 June 2000)

## SCHEDULES

Each of the Schedules sets out:

- the category of each of the services that are to be available in that area (column one).
- The status of the service (column two) does not form part of the licence area plan decision and is included for reference only.
- The frequency for each transmitter (column three) does not form part of the licence area plan decision and is included for reference only.
- the service licence number which has been allocated to the service, if appropriate (column four); N/A = Not Applicable, as the *Broadcasting Services Act 1992* only requires service licences for Commercial and Community services.
- the number of transmitters required to transmit the service,
- the transmitter specification number which has been allocated to each transmitter (column five),
- the identifying number of the attachment where the technical specifications for each transmitter are described (column six). (Each set of technical specifications referred to in the Schedules is an attachment to this determination).
- the general area served by each transmitter (column seven).

### Status Column

Licensed	:	service is already licensed
Available	:	new licence available for allocation
Proposed	:	transmitter for existing broadcasting service licence
Alternative	:	alternative channel proposed for licensed service
Reserved	:	capacity reserved for a national or community service in accordance with Ministerial notification

### Frequency Column

- The frequency shown is the centre frequency of the channel.

The information in the frequency column is provided as additional information to the licence area plan, and is accurate as at the date of publication.

## SCHEDULE ONE Licence Area Plan : Geelong Radio – June 2000

### Licence Area : GEELONG RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Commercial	Licensed	93.9 MHz	SL5148	TS5148001	1.2	Geelong
Commercial	Licensed	95.5 MHz	SL4151	TS4151001	1.3	Geelong
Community	Available	96.3 MHz	SL1150691	TS6597001	1.4	Geelong
Community	Alternative	94.7 MHz	SL5087	TS6598001	1.5	Geelong
	Licensed	100.3 MHz	SL5087	TS5087001	1.6	Geelong
Open Narrowcasting	Available	1341 kHz	N/A	TS7283001	1.7	Geelong

## SCHEDULE TWO Licence Area Plan : Geelong Radio – June 2000

### Licence Area : GEELONG RA2

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Community	Available	99.5 MHz	SL1150700	TS10009641	2.2	Geelong
Open Narrowcasting	Available	89.3 MHz	N/A	TS10009639	2.3	Geelong

### DISCLAIMER:

The availability of frequency capacity in Geelong is, to a large extent, based on theoretical interference predictions. Predictions by their very nature are subject to some degree of uncertainty given limitations of topography and other data.

The Australian Broadcasting Authority (ABA) takes reasonable care in assigning frequencies, but cannot warrant that licensed use of a broadcasting facility will be free from (or will not cause) interference. Any such interference can vary in extent and can originate within Australia or overseas.

Prospective applicants for licences should obtain independent technical or specialist advice concerning their applications, the operation of broadcasting equipment, and any other matters relevant to the operation of transmitters and services under the licences in question.

- Existing broadcasters should take all reasonable steps to be satisfied that their frequency will operate at the prescribed levels before making changes to its existing technical operating conditions.

- Aspirant broadcasters should take all reasonable steps to be satisfied that their frequency of interest will operate at the prescribed levels before competing for spectrum availability.

No liability is or will be accepted by the Minister for Communications, Information Technology and the Arts, the ABA, the Commonwealth of Australia, or its officers, servants or agents for the licensed use of a broadcasting facility which is not free from (or causes) interference.

**LICENCE AREA FOR SERVICE LICENCE NOS: SL4151; SL5087; SL5148;  
SL1150691**

**COMMERCIAL AND COMMUNITY RADIO - GEELONG RA1**

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

---

Area Description

---

Golden Plains (S) - South-East

Greater Geelong (C)

Queenscliffe (B)

Surf Coast (S)

Wyndham (C)

VIC CD 2101104

VIC CD 2101105

VIC CD 2101107

VIC CD 2120411

VIC CD 2301502

VIC CD 2301503

VIC CD 2301504

VIC CD 2301505

VIC CD 2301901

VIC CD 2301902

VIC CD 2301903

VIC CD 2301904

VIC CD 2301905

VIC CD 2301906

VIC CD 2301907

VIC CD 2301908

VIC CD 2301909

VIC CD 2301910

VIC CD 2301911

VIC CD 2301912

VIC CD 2301913

VIC CD 2301914

Note:

Standard terminology used by the Australian Bureau of Statistics:

(B) = Borough

(C) = City

(CD) = Collection District

(S) = Shire

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Commercial  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL5148

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS5148001

**Transmitter Site :-**

Nominal location : MURRADOC HILL  
 Australian Map Grid : Zone Easting Northing  
 Reference 55 289920 5773220  
 Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM  
 Carrier Frequency : 93.9 MHz  
 Polarisation Mixed  
 Maximum antenna height 110 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 60°T	30 kW
60°T - 170°T	2 kW
170°T - 300°T	56 kW
300°T - 360°T	30 kW

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Commercial  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL4151

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS4151001

**Transmitter Site :-**

Nominal location : MURRADOC HILL  
 Australian Map Grid : Zone Easting Northing  
 Reference 55 289920 5773220  
 Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM  
 Carrier Frequency : 95.5 MHz  
 Polarisation Mixed  
 Maximum antenna height 110 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 60°T	30 kW
60°T - 170°T	2 kW
170°T - 300°T	56 kW
300°T - 360°T	30 kW



**LICENCE AREA PLAN : Geelong – June 2000**

Category : Community  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL1150691

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS6597001

**Transmitter Site :-**

Nominal location : MURRADOC HILL  
 Australian Map Grid : Zone Easting Northing  
 Reference 55 289920 5773220

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM  
 Carrier Frequency : 96.3 MHz  
 Polarisation Mixed  
 Maximum antenna height 110 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 60°T	30 kW
60°T - 170°T	2 kW
170°T - 300°T	56 kW
300°T - 360°T	30 kW

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Community  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL5087

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS6598001

**Transmitter Site :-**

Nominal location : MURRADOC HILL  
 Australian Map Grid : Zone Easting Northing  
 Reference 55 289920 5773220

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM  
 Carrier Frequency : 94.7 MHz  
 Polarisation Mixed  
 Maximum antenna height 110 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 60°T	30 kW
60°T - 170°T	2 kW
170°T - 300°T	56 kW
300°T - 360°T	30 kW

**Special Condition:-**

This specification will replace the frequency 100.3 MHz, described under attachment 1.6, at a date not later than one year after publication of the Gazette that the licence area plan for Geelong has been determined.

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Community  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL5087

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS5087001

**Transmitter Site :-**

Nominal location : Matthew Flinders High School, GEELONG  
 Australian Map Grid : Zone Easting Northing  
 Reference 55 267900 5774100  
 Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM  
 Carrier Frequency : 100.3 MHz  
 Polarisation Vertical  
 Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	800 W

**Special Condition:-**

This specification will have its frequency replaced by 94.7 MHz, described under attachment 1.5, at a date not later than one year after publication of the Gazette notice that the licence area plan for Geelong has been determined.

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Open Narrowcasting  
 General Area Served : Geelong (VIC)  
 Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS7283001

**Transmitter Site :-**

Nominal location : PORTARLINGTON

Australian Map Grid : Zone Easting Northing  
 Reference 55 277360 5771700

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1341 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
0°T	0	1.145 kV
10°T	0	1.195 kV
20°T	0	1.025 kV
30°T	0	705 V
40°T	0	350 V
49°T	0	150 V
50°T	0	150 V
60°T	0	335 V
65°T	0	430 V
70°T	0	500 V
80°T	0	580 V
90°T	0	580 V
100°T	0	500 V
110°T	0	335 V
120°T	0	150 V
130°T	0	350 V
140°T	0	705 V

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
150°T	0	1.025 kV
160°T	0	1.195 kV
170°T	0	1.145 kV
180°T	0	865 V
190°T	0	430 V
200°T	0	180 V
210°T	0	570 V
220°T	0	890 V
230°T	0	1.085 kV
240°T	0	1.175 kV
250°T	0	1.2 kV
260°T	0	1.205 kV
270°T	0	1.205 kV
280°T	0	1.2 kV
290°T	0	1.175 kV
300°T	0	1.085 kV
310°T	0	890 V
320°T	0	570 V
330°T	0	180 V
340°T	0	430 V
344°T	0	615 V
350°T	0	865 V

**Special Conditions :-**

1. The direction of minimum CMF is to lie within 1 degree of 49, 121, 198 and 332 degrees true north.
2. The minimum CMF is to lie in the range 120V to 150V.
3. The coverage area of this transmission is described as that area within a radius of 80 kilometres measured from a point with the following AMG co-ordinates: Zone: 55; Easting; 297980; Northing: 5804100. This point is not the same as the nominal transmitter site.
4. This transmission is permitted within the defined coverage area. The transmitter may be established at an alternative site to the nominal site only within this area. A change in site from the nominal site is to be in accordance with the Change of Transmitter Site Procedure of the ABA's Technical Planning Guidelines, and is not to result in an increase in field strength in the direction of minimum CMF, in excess of that which would have been provided at the specified power and pattern from the nominal site.

**LICENCE AREA FOR SERVICE LICENCE NO: SL1150700****COMMUNITY RADIO - GEELONG RA2**

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

Area Description	Area Description
Bellarine - Inner	VIC CD 2111202
Corio - Inner	VIC CD 2111203
Geelong	VIC CD 2111204
Geelong West	VIC CD 2111205
Newtown	VIC CD 2111206
VIC CD 2110901	VIC CD 2111207
VIC CD 2110902	VIC CD 2111208
VIC CD 2110903	VIC CD 2111209
VIC CD 2110904	VIC CD 2111210
VIC CD 2110905	VIC CD 2111211
VIC CD 2110906	VIC CD 2111212
VIC CD 2110907	VIC CD 2111403
VIC CD 2110908	VIC CD 2111408
VIC CD 2110909	VIC CD 2111409
VIC CD 2110910	VIC CD 2111411
VIC CD 2111001	VIC CD 2112501
VIC CD 2111002	VIC CD 2112502
VIC CD 2111003	VIC CD 2112503
VIC CD 2111004	VIC CD 2112504
VIC CD 2111005	VIC CD 2112505
VIC CD 2111006	VIC CD 2112506
VIC CD 2111007	VIC CD 2112507
VIC CD 2111008	VIC CD 2112508
VIC CD 2111009	VIC CD 2112509
VIC CD 2111010	VIC CD 2112510
VIC CD 2111011	VIC CD 2112511
VIC CD 2111101	VIC CD 2112512
VIC CD 2111102	Note:
VIC CD 2111103	
VIC CD 2111104	Standard terminology used by the
VIC CD 2111105	Australian Bureau of Statistics:
VIC CD 2111106	
VIC CD 2111107	(CD) = Collection District
VIC CD 2111108	
VIC CD 2111109	
VIC CD 2111110	
VIC CD 2111111	
VIC CD 2111112	
VIC CD 2111201	

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Community  
 General Area Served : Geelong (VIC)  
 Service Licence Number : SL1150700

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10009641

**Transmitter Site :-**

Nominal location : Ceres Brownhill Heights Reserve, GEELONG

Australian Map Grid :	Zone	Easting	Northing
Reference	55	263400	5771300

Site Tolerance :

**Emission :-**

Frequency Band & Mode	VHF-FM
Carrier Frequency :	99.5 MHz
Polarisation	Mixed
Maximum antenna height	30 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	800 W

**Special Condition :-**

The service is interference limited, only field strength levels of 66 dB $\mu$ V/m and above will be protected from interference.

**LICENCE AREA PLAN : Geelong – June 2000**

Category : Open Narrowcasting

General Area Served : Geelong (VIC)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10009639

**Transmitter Site :-**

Nominal location : Ceres Brownhill Heights Reserve, GEELONG

Australian Map Grid :	Zone	Easting	Northing
Reference	55	263400	5771300

Site Tolerance :

**Emission :-**

Frequency Band &amp; Mode VHF-FM

Carrier Frequency : 89.3 MHz

Polarisation Mixed

Maximum antenna height 30 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	250 W

**Special Conditions :-**

1. The coverage area of this transmission is described as GEELONG RA2, as defined in the Geelong Radio Licence Area Plan.
2. This transmission is permitted within the defined coverage area. The transmitter may be established at an alternative site to the nominal site only within this area. A change in site from the nominal site is to be in accordance with the Change of Transmitter Site Procedure of the ABA's Technical Planning Guidelines, and is not to result in a maximum field strength beyond the defined area in excess of that which would have been provided at the specified power and pattern from the nominal site.