

# Vodafone Supporting Technical Information for: -

## CS51799C – Glossop centre

This site is to improve quality of coverage to Glossop Town  
Centre

Date Prepared: 13th August 2008

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# KEY TO COVERAGE PLOTS

The enclosed radio propagation plots are based on Ordnance Survey geographical information.

The level of coverage provided by a particular site is dependant on a number of variables. The main factors which determine the extent of coverage are: the frequency of the signal emitted, the height of the antenna above ground level, the characteristics of the surrounding topography and the type and occurrence of ground clutter such as buildings and trees which can cause 'shadows' or reflections and can absorb the signal.

Vodafone's Radio Engineers have produced accurate visual representations of the level of coverage available in this particular area by using advanced computer modelling software based on a Geographical Information System. The programme takes the numerous variables as above into account and can then calculate and plot the strength of the signal.

Existing and proposed sites are indicated by a circle with site number. The site information is shown by the orientation of antennas

CS12345

- Motorways are illustrated by **Dark Blue** lines;
  - A Class roads are illustrated as **Cyan** lines;
  - B Roads are illustrated as **Grey** lines;
  - Railway lines are illustrated as **Pink** lines;
- and

## Key for GSM (2G) Plots

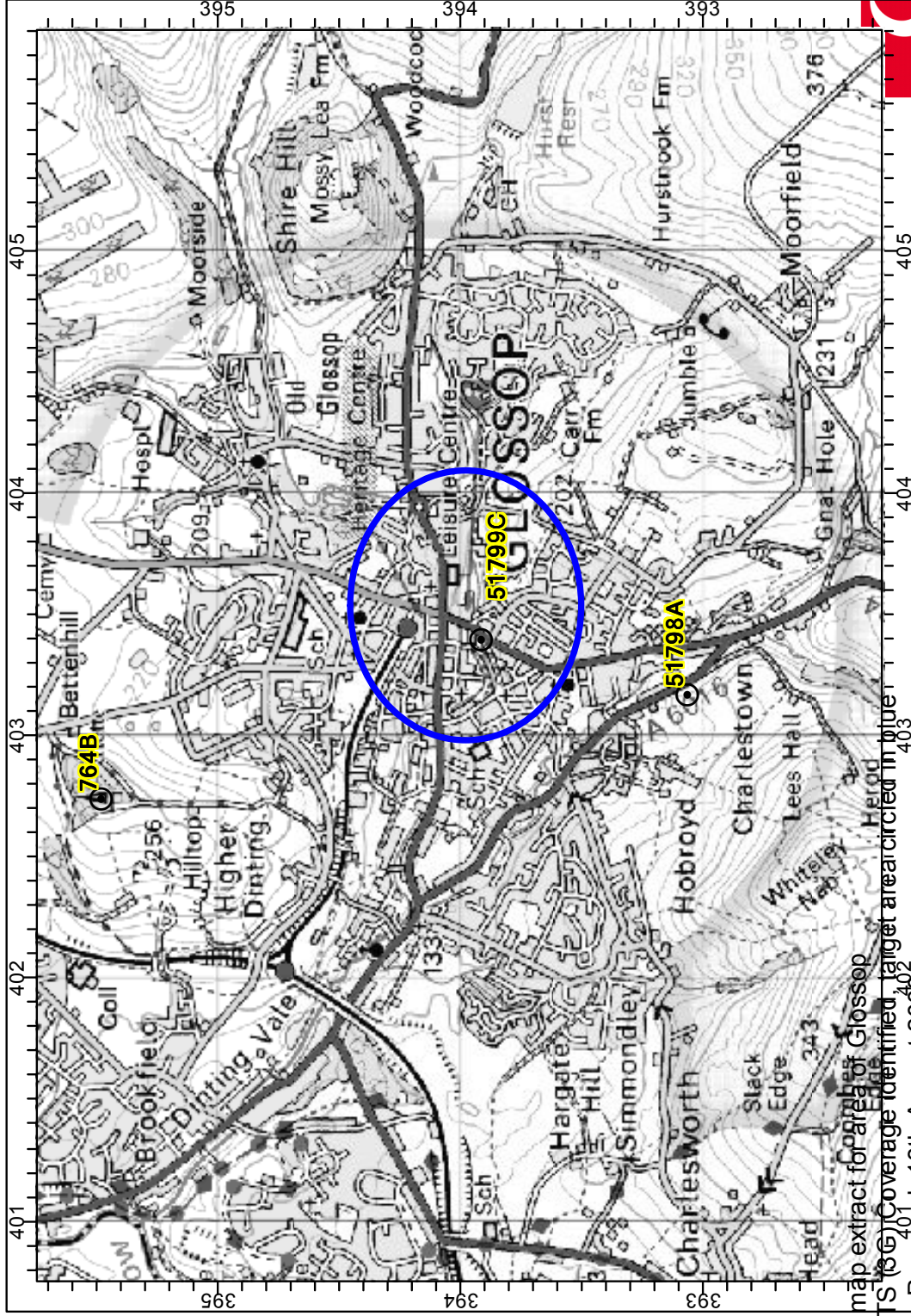
Orange	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in urban areas.	Urban
Red	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in suburban areas	Suburban
Green	Sufficient signal strength to provide adequate service for use of a hand portable mobile in a car	In Car
Yellow	Sufficient signal strength to provide adequate service for outdoor use of a hand portable mobile.	Outdoor
No Colour	Insufficient signal strength to provide reliable service.	No Coverage

## Key for 3G plots

Pink	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in dense urban areas, such as major cities and large industrial areas.	Dense Urban
Orange	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in urban areas, for example dense residential and industrial areas.	Urban
Yellow	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in suburban areas or on a train.	Suburban
Green	Sufficient signal strength to provide adequate service for use of a hand portable mobile in a car	In Car
Blue	Sufficient signal strength to provide adequate service for outdoor use of a hand portable mobile.	Outdoor
No Colour	Insufficient signal strength to provide reliable service.	No Coverage



# CS51799C – Glossop Centre

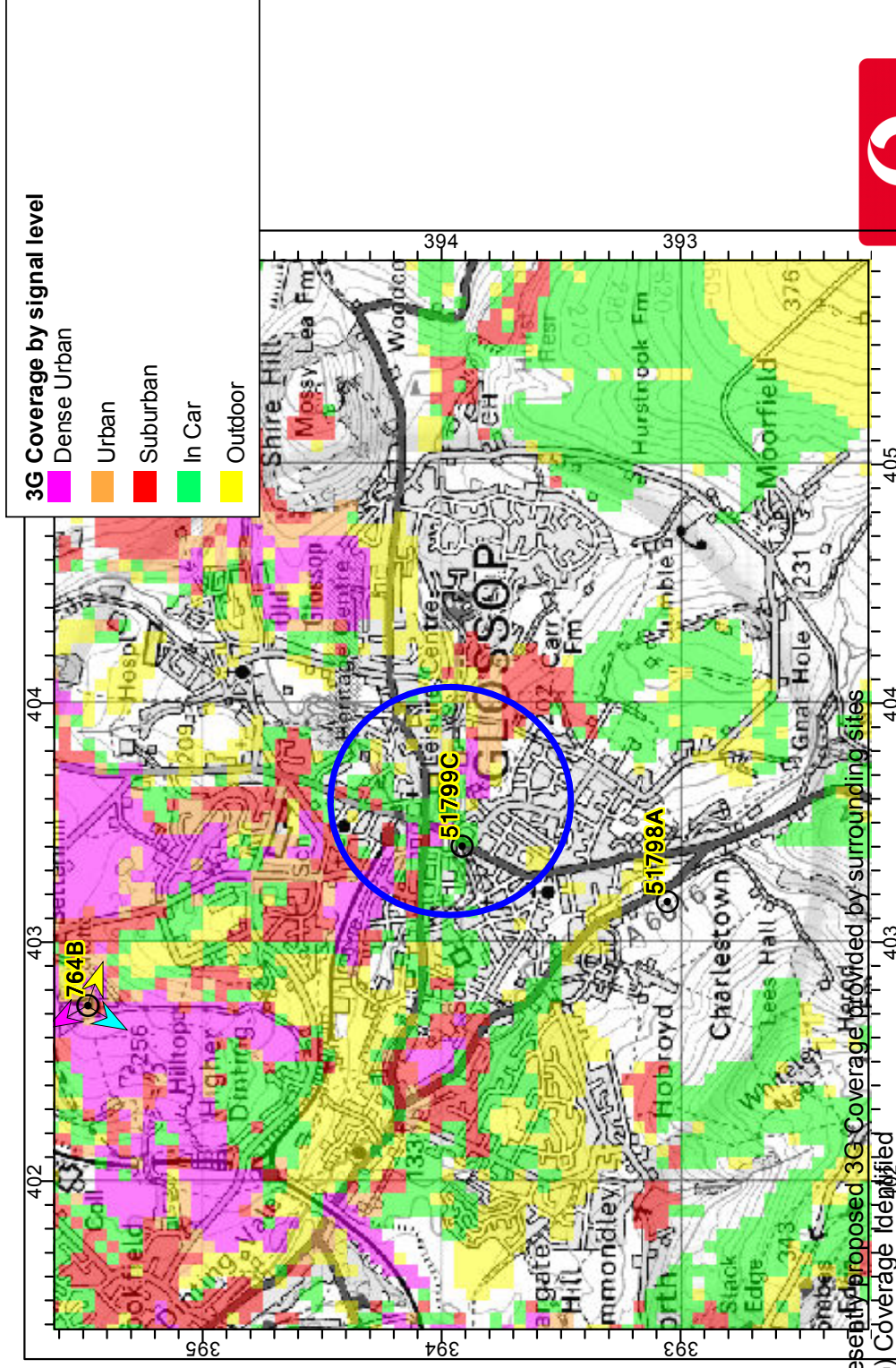


OS map extract for area of Glossop  
UMS (5G) Coverage Identified, target area circled in blue  
Date Prepared: 13th August 2008



This coverage plan must be read in conjunction with the key and site specific supplementary information.  
Each colour block represents 100 metres square.

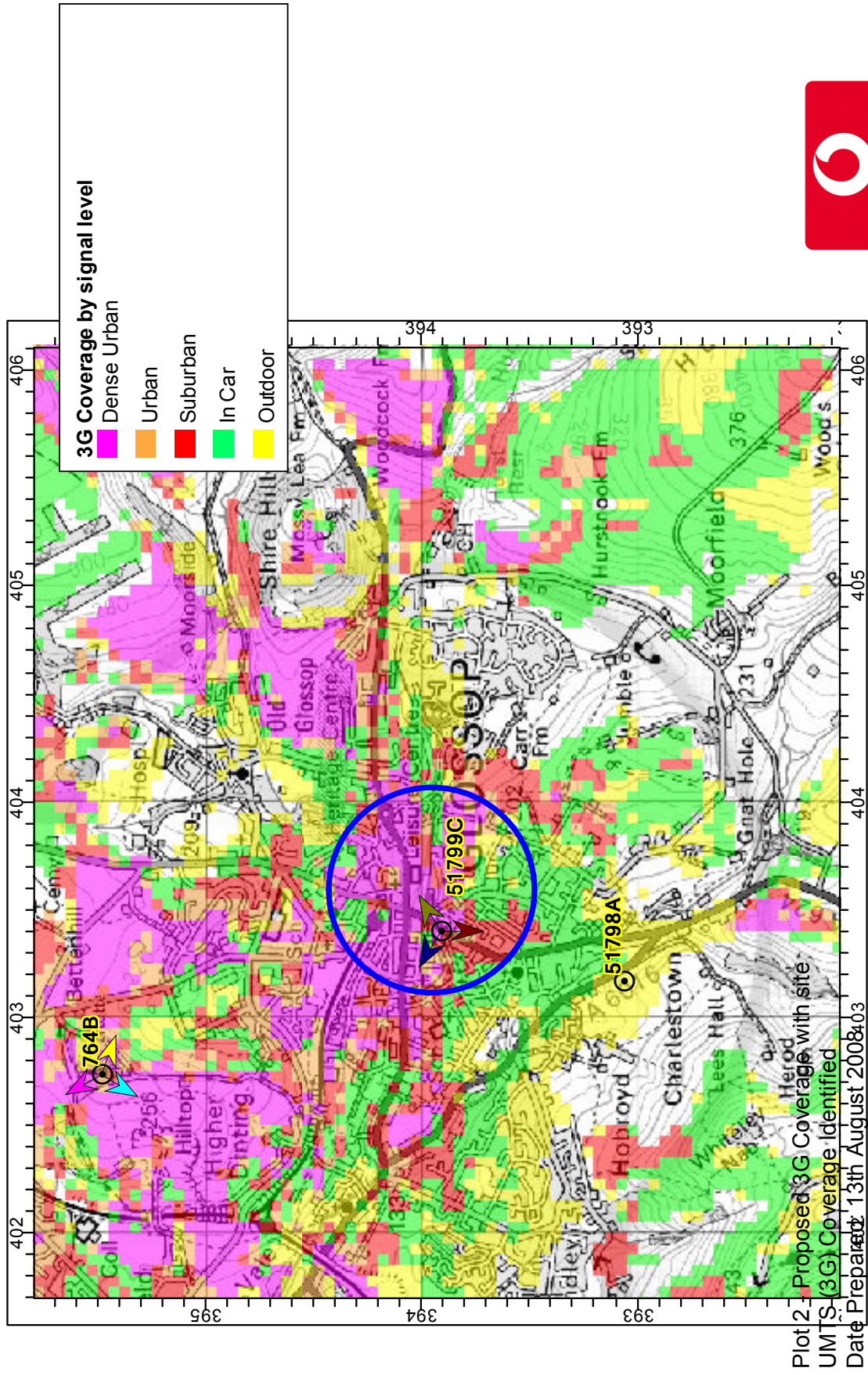
# CS51799C – Glossop centre - Present 3G Coverage



Plot 1 - Presently Proposed 3G Coverage provided by surrounding sites  
 UMTS (3G) Coverage Identified  
 Date Prepared: 13th August 2008

This coverage plan must be read in conjunction with the key and site specific supplementary information.  
 Each colour block represents 100 metres square.

# CS51799C – Glossop Centre - Proposed 3G Coverage



This coverage plan must be read in conjunction with the key and site specific supplementary information.  
Each colour block represents 100 metres square.