T-Mobile

2G COVERAGE PLOTS

Date Created: 03 April 2007

T-Mobile Cell Id: 71686
T-Mobile Site Name: SHELLGULF SHELL EAST FIELD (P1)

Purpose of Site

The site is required to provide a high level of 2G coverage and a high grade of service to the Rustington Bypass - Littlehampton area. In order to provide coverage at commercial and residential indoor levels, the populated areas should be coloured magenta and green respectively.

Plot ref. 49352 – Coverage from existing and planned sites without 71686 SHELLGULF SHELL EAST FIELD (P1)

The plot shows the coverage from existing and planned sites where planning permission has been approved or submitted. The coverage does not include cell 71686 SHELLGULF SHELL EAST FIELD (P1) or any sites where planning permission has not yet been submitted. The plot shows that the local area of Rustington Bypass - Littlehampton is not adequately covered to commercial and residential indoor signal levels.

Plot ref. 49353 – Coverage from 71686 SHELLGULF SHELL EAST FIELD (P1) in isolation

The plot shows the coverage provided from cell 71686 SHELLGULF SHELL EAST FIELD (P1) in isolation at an assumed transmission height of 11 m. The plot shows that the site provides commercial and residential indoor signal levels to the local area of Rustington Bypass - Littlehampton.

Plot ref. 49354 – Coverage from 71686 SHELLGULF SHELL EAST FIELD (P1) and surrounding sites

The plot shows the coverage from 71686 SHELLGULF SHELL EAST FIELD (P1) and surrounding sites where planning permission has been approved or submitted. This plot shows the improvement in coverage that this site brings to the area of Rustington Bypass - Littlehampton when compared to plot ref. 49352.

KEY TO COVERAGE PLOTS

2G stands for second generation mobile services and is also known as GSM (Global System for Mobile Communications). Analogue Mobile was the first generation of mobile communications (1G), and was soon followed by GSM or 2G and GPRS (General Packet Radio Service) or 2.5G and lately UMTS (Universal Mobile Telecommunications System) or 3G. T-Mobile's GSM network not only provides high quality voice service but also offers GPRS data services.

The plots submitted are a geographical representation of the predicted service level coverage. This is a result of simulation software that predicts the coverage through advanced modelling and calculations. The main factors which affect the calculations are; the power and the frequency of the signal emitted, the height of the antenna, the topography and traffic forecast of the area and the ground clutter such as buildings. However, T-Mobile UK's predictor is unable to account for local tree heights and road/railway cuttings. These cause further attenuation of the signal.

Predicted Coverage Levels Shown On Plots

Coloured bands depict service levels. In the enclosed plot the colours represent different service levels as follows:

	Sufficient signal strength to provide indoor service for Urban or Commercial areas.	Urban and Commercial level of coverage
	Sufficient signal strength to provide indoor service for Suburban and Residential areas.	Suburban and Residential level of coverage
	Sufficient signal strength to provide In-vehicle service.	In-vehicle level of coverage

Existing and Planned Sites and its Location are Indicated by a Circle with its Site Name

In-Service sites or sites where planning permission has been submitted/approved.

Nominal sites or planned sites where planning permission has not yet been submitted.
Nominal sites are ideal location where an area will be searched to find suitable sites. It does not indicate a definite location where a site will be built. A planned site however, already has its exact location identified.

Existing and Planned Sites shown on Plots

Cell Id	Northing	Easting	Site Name	Notes
55764	102203	505210	THREE CLAIGMAR ROAD 1	Application to be submitted.
55773	102740	504525	SOUTHERN WATER WORKS REF 10232	Application to be submitted.
55774	101583	503262	KINGSMERE TOWER BLOCK	Application to be submitted.
55775	103838	503325	HOLLYACRE	Planning permission pending.
55778	103081	501690	LINESIDE INDUSTRIAL ESTATE	Application to be submitted.
71472	101418	504902	SEA LANE DNS	Planning permission pending.
71569	103184	505223	ORANGE POWERBRONZE LTD	Site already exists.
71686	103357	503854	SHELLGULF SHELL EAST FIELD (P	Site being justified in these plots.
94538	102400	503150	LITTLEHAMPTON POLICE STATION	Site already exists.

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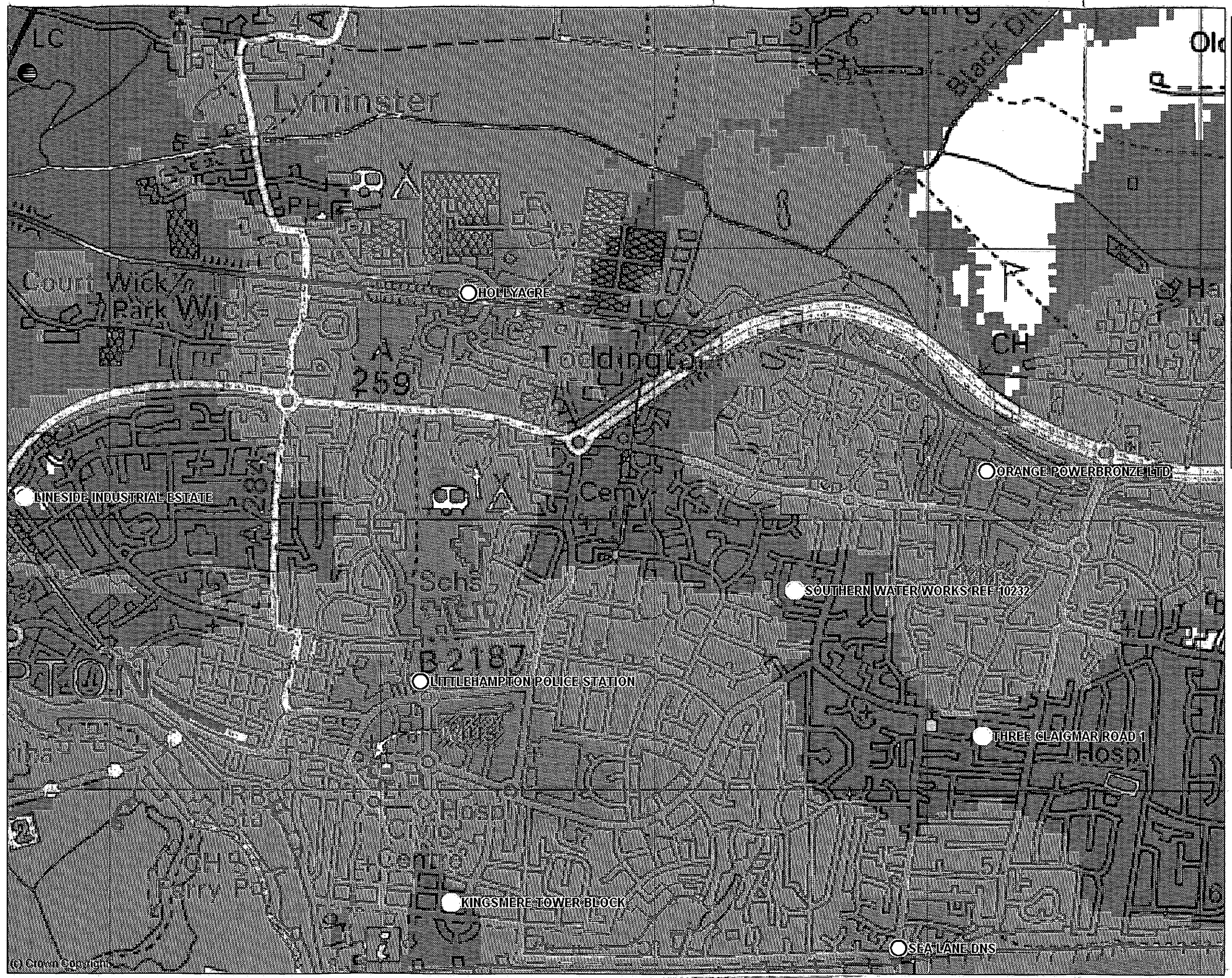

2G COVERAGE

T-Mobile Plot Ref: 49352

Cell 71686

Coverage from existing and planned sites in the area excluding the proposed cell 71686 SHELLGULF SHELL

LEGEND

- **Urban and Commercial level of coverage.**
- **Suburban and Residential level of coverage.**
- **In-Vehicle coverage**
- **In-service sites or sites where planning permission has been submitted/approved.**
- **Nominal sites or planned sites where planning permission has not yet been submitted.**

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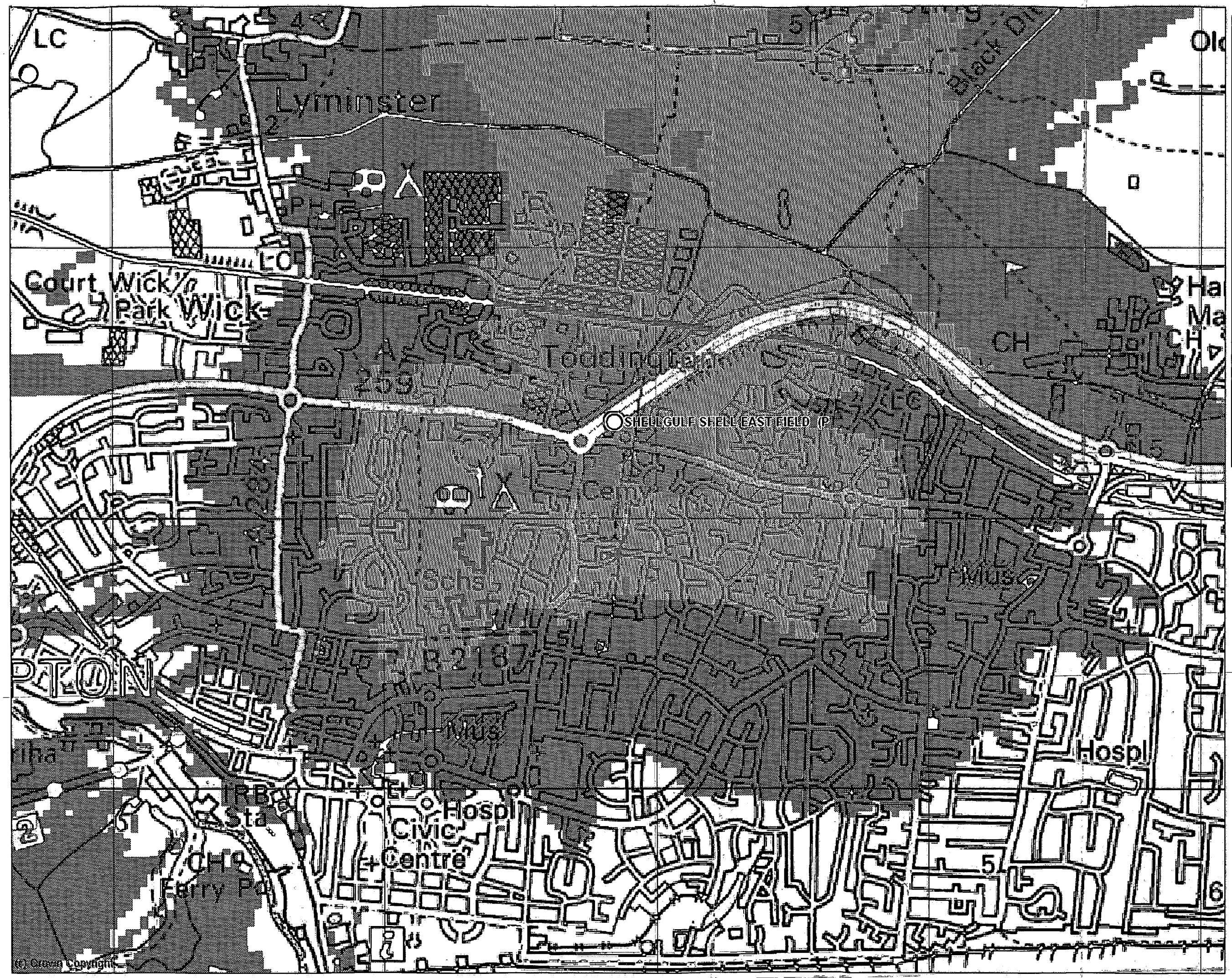

2G COVERAGE

T-Mobile Plot Ref: 49353

Cell 71686

Coverage from the proposed cell 71686 SHELLGULF SHELL EAST FIELD (P1) in isolation.

LEGEND

- **Urban and Commercial level of coverage.**
- **Suburban and Residential level of coverage.**
- **In-Vehicle coverage**
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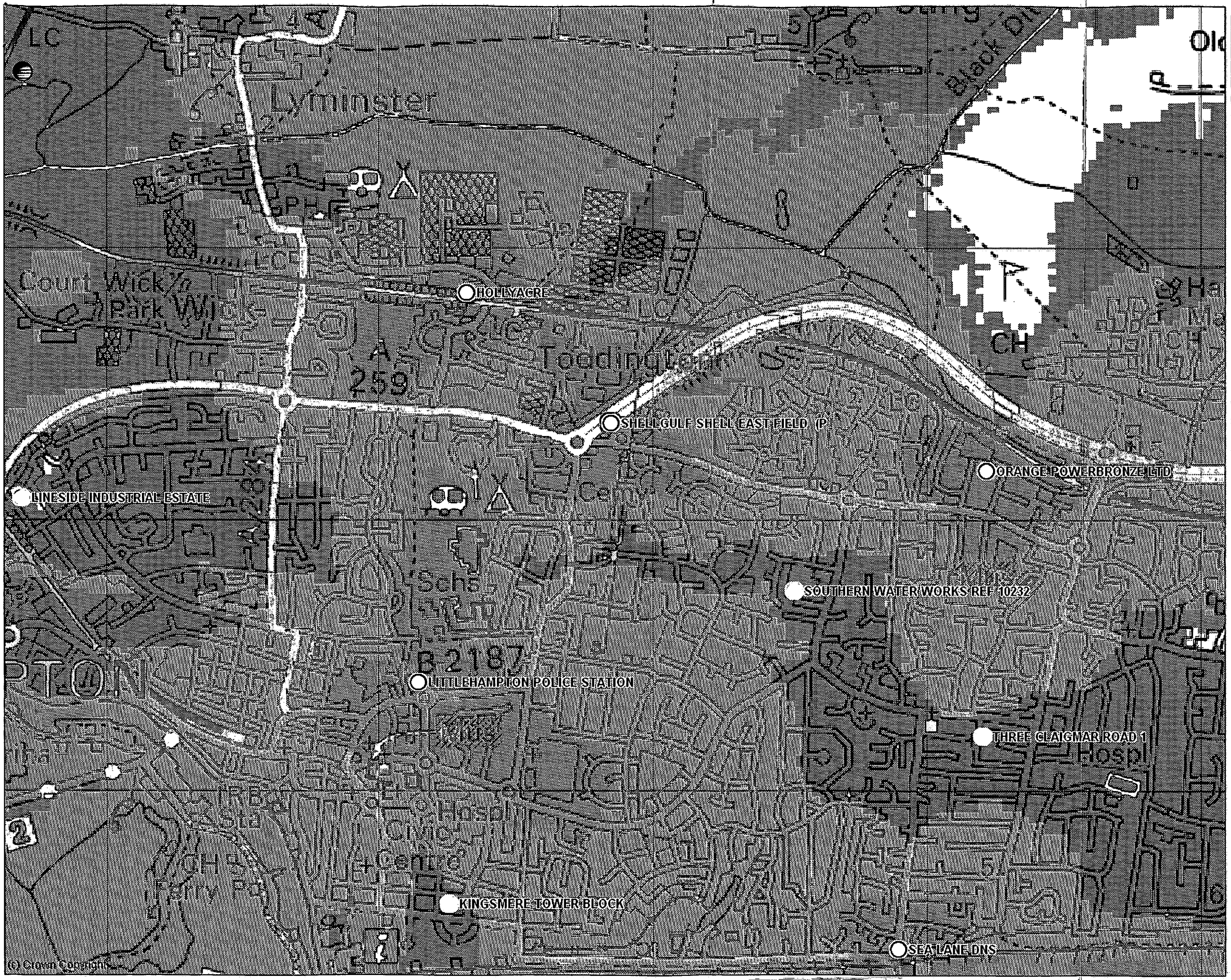

2G COVERAGE

T-Mobile Plot Ref: 49354

Cell 71686

Coverage from existing and planned sites in the area including the proposed cell 71686 SHELLGULF SHELL EAST

LEGEND

- **Urban and Commercial level of coverage.**
- **Suburban and Residential level of coverage.**
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