T-Mobile

# 3G COVERAGE PLOTS

**Date Created:** 26 September 2006

**T-Mobile Cell Id:** 71646
**T-Mobile Site Name:** FELPHAM WAY

## Purpose of Site

The site is required to provide a high level of 3G coverage and a high grade of service to the West Phelpham area. In order to provide coverage at commercial and residential indoor levels, the populated areas should be coloured magenta and green respectively.

### Plot ref. 42755 – Coverage from existing and planned sites without 71646 FELPHAM WAY

The plot shows the coverage from existing and planned sites where planning permission has been approved or submitted. The coverage does not include cell 71646 FELPHAM WAY or any sites where planning permission has not yet been submitted. The plot shows that the local area of West Phelpham is not adequately covered to commercial and residential indoor signal levels.

### Plot ref. 42756 – Coverage from 71646 FELPHAM WAY in isolation

The plot shows the coverage provided from cell 71646 FELPHAM WAY in isolation at an assumed transmission height of 11m. The plot shows that the site provides commercial and residential indoor signal levels to the local area of West Phelpham.

### Plot ref. 42757 – Coverage from 71646 FELPHAM WAY and surrounding sites

The plot shows the coverage from 71646 FELPHAM WAY 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 West Phelpham when compared to plot ref. 42755.

# KEY TO COVERAGE PLOTS

3G stands for third generation mobile services and is also known as UMTS (Universal Mobile Telecommunications System). Analogue Mobile was the first generation of mobile communications (1G), and was soon followed by GSM (Global System for Mobile Communications) or 2G and GPRS (General Packet Radio Service) or 2.5G. UMTS represents an evolution from today's 'second generation', offering a platform for faster data speeds, therefore enabling more efficient services. The T-Mobile 3G network to be made available to customers will allow internet browsing, music, video, and a host of other services, to be delivered on demand to their mobiles.

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 only Outdoor service. | Outdoor level of coverage |

## Location of Existing and Planned Sites are Indicated by a Circle and Site Name

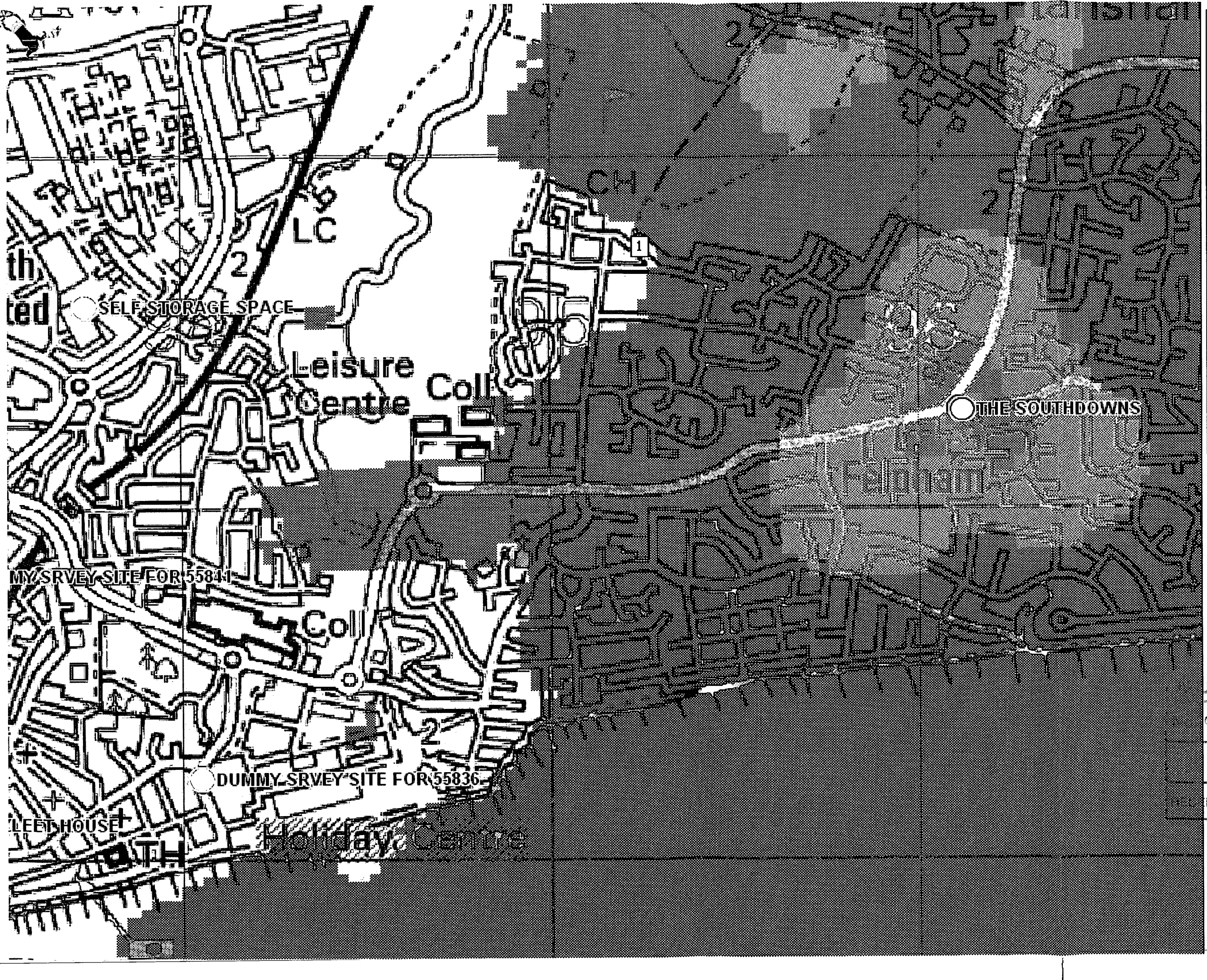
- In-Service sites or sites where planning permission has been submitted/approved.
- Nominal sites or planned sites where planning permission has not yet been submitted. Nominal sites are ideal location where an area will be searched to find suitable sites. It does not indicate a definite location where 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 |
|---|---|---|---|---|
| 55836 | 99232 | 494057 | DUMMY SRVEY SITE FOR 55836 | New site being investigated. |
| 55841 | 99812 | 493387 | DUMMY SRVEY SITE FOR 55841 | New site being investigated. |
| 71561 | 100281 | 496123 | THE SOUTHDOWNS | Site already exists. |
| 71646 | 100077 | 495033 | FELPHAM WAY | Site being justified in these plots. |
| 71732 | 100580 | 493740 | SELF STORAGE SPACE | Application to be submitted. |

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## 3G COVERAGE

**T-Mobile Plot Ref: 42755**

**Cell 71646**

**Coverage from existing and planned sites in the area excluding the proposed cell 71646 FELPHAM WAY.**

**LEGEND**

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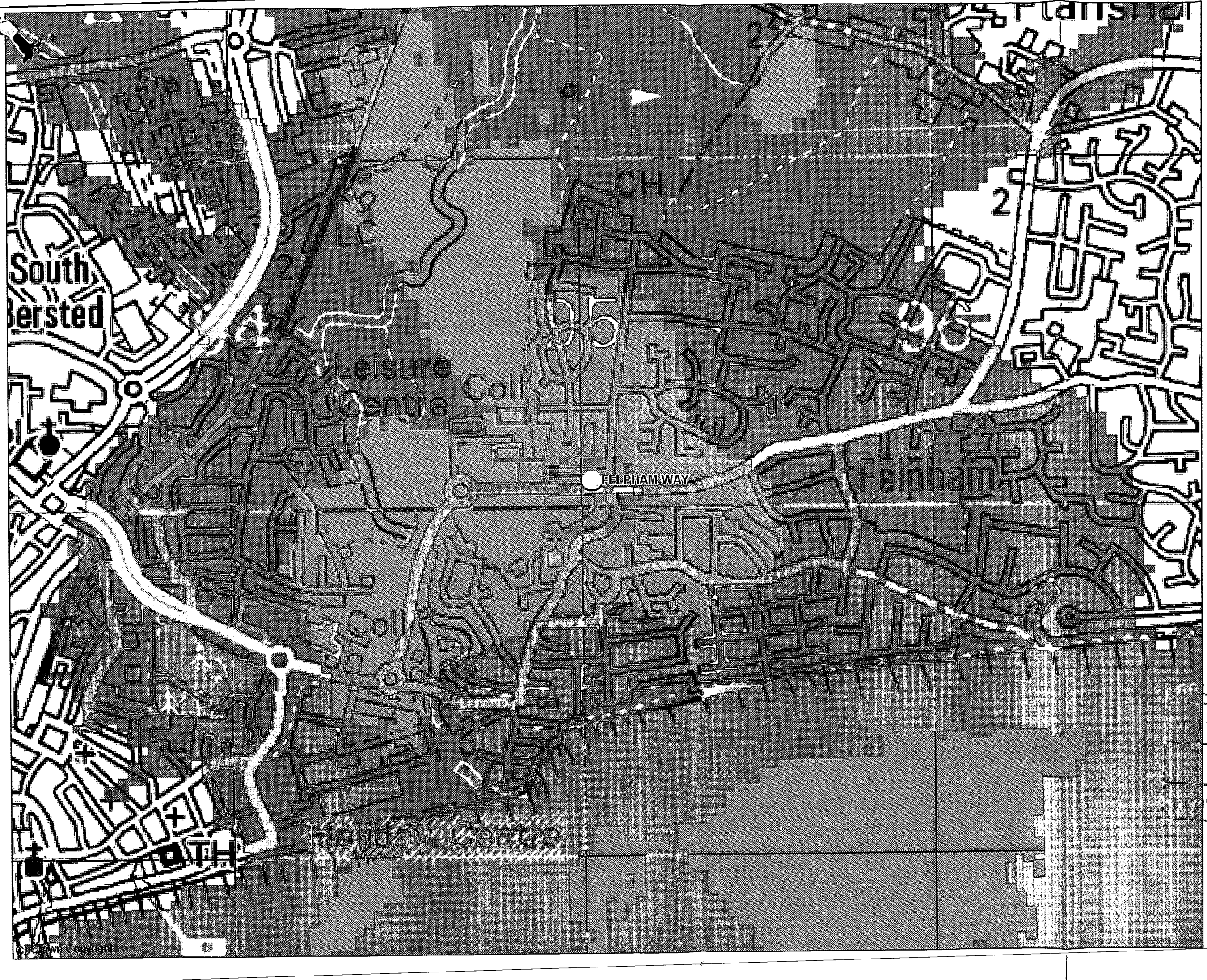
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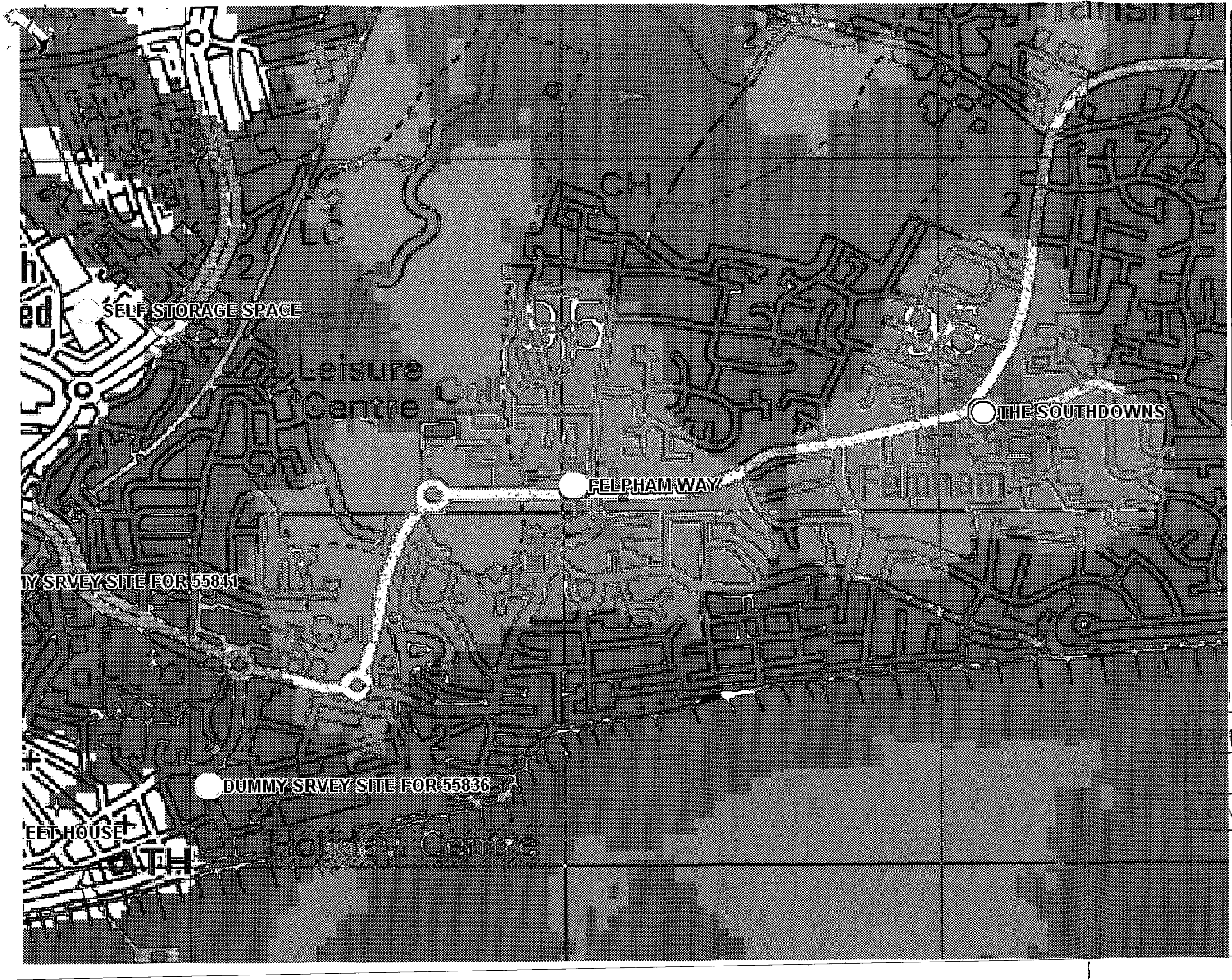


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South
Bersted
Leisure
Centre
FELPHAM WAY
Felpham
LC
CH
2
2
2




## 3G COVERAGE

**T-Mobile Plot Ref: 42757**

**Cell 71646**

**Coverage from existing and planned sites in the area including the proposed cell 71646 FELPHAM WAY.**

**LEGEND**

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