

## **Appendix 9.9 – Cumulative Assessment of Rail Central & Proposed Development**

This appendix outlines the cumulative impact of Rail Central & the Proposed Development.

There was no change in significance at any receptor due to the combined operation of the Rail Central and Northampton Gateway schemes; as such, the conclusions reached for the scheme in the absence of Rail Central remain valid and the cumulative impact can therefore be considered **Negligible** in significance.

**Table A9.9.1: Predicted Annual Mean NO<sub>2</sub> Concentrations (μg.m<sup>-3</sup>) at Sensitive Receptors (2031)**

| Receptor                     | 2018 Baseline | 2031 Without Development | 2031 With Development | Change due to Proposed Development |               | Significance of Impact | 2031 With + Rail Central | Change due to Proposed Development + Rail Central |               | Significance of Impact |
|------------------------------|---------------|--------------------------|-----------------------|------------------------------------|---------------|------------------------|--------------------------|---|---------------|------------------------|
|                              | A             | B                        | C                     | C-B                                | As a % of AQS |                        | D                        | D-B   | As a % of AQS |                        |
| <b>AQMA 1 Collingtree</b>    |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| C1                           | <b>40.1</b>   | 21.0                     | 21.2                  | 0.2                                | 0.5           | Negligible             | 21.3                     | 0.3   | 0.8           | Negligible             |
| C2                           | 38.6          | 20.3                     | 20.5                  | 0.2                                | 0.4           | Negligible             | 20.6                     | 0.3   | 0.8           | Negligible             |
| C3                           | 37.0          | 19.5                     | 19.7                  | 0.2                                | 0.4           | Negligible             | 19.8                     | 0.3   | 0.7           | Negligible             |
| C4                           | 35.5          | 18.8                     | 19.0                  | 0.2                                | 0.4           | Negligible             | 19.1                     | 0.3   | 0.7           | Negligible             |
| C5                           | 29.0          | 15.8                     | 15.9                  | 0.1                                | 0.3           | Negligible             | 16.0                     | 0.2   | 0.5           | Negligible             |
| C6                           | 32.1          | 17.2                     | 17.4                  | 0.1                                | 0.4           | Negligible             | 17.5                     | 0.2   | 0.6           | Negligible             |
| C7                           | 30.4          | 16.5                     | 16.6                  | 0.1                                | 0.3           | Negligible             | 16.7                     | 0.2   | 0.5           | Negligible             |
| C8                           | 33.1          | 17.7                     | 17.9                  | 0.2                                | 0.4           | Negligible             | 18.0                     | 0.3   | 0.6           | Negligible             |
| C9                           | 33.2          | 17.7                     | 17.9                  | 0.2                                | 0.4           | Negligible             | 18.0                     | 0.3   | 0.6           | Negligible             |
| C10                          | 33.1          | 17.7                     | 17.8                  | 0.1                                | 0.4           | Negligible             | 17.9                     | 0.3   | 0.6           | Negligible             |
| C11                          | 33.1          | 17.7                     | 17.8                  | 0.1                                | 0.4           | Negligible             | 17.9                     | 0.2   | 0.6           | Negligible             |
| C12                          | 33.1          | 17.7                     | 17.8                  | 0.1                                | 0.4           | Negligible             | 17.9                     | 0.2   | 0.6           | Negligible             |
| C13                          | 35.0          | 18.6                     | 18.7                  | 0.2                                | 0.4           | Negligible             | 18.8                     | 0.3   | 0.7           | Negligible             |
| C14                          | 35.0          | 18.5                     | 18.7                  | 0.2                                | 0.4           | Negligible             | 18.8                     | 0.3   | 0.7           | Negligible             |
| C15                          | 34.8          | 18.5                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.7                     | 0.3   | 0.7           | Negligible             |
| C16                          | 39.6          | 20.7                     | 20.9                  | 0.2                                | 0.5           | Negligible             | 21.0                     | 0.3   | 0.8           | Negligible             |
| C17                          | 34.6          | 18.4                     | 18.5                  | 0.2                                | 0.4           | Negligible             | 18.6                     | 0.3   | 0.7           | Negligible             |
| NSSUE1                       | 26.9          | 14.9                     | 15.0                  | 0.1                                | 0.2           | Negligible             | 15.1                     | 0.2   | 0.4           | Negligible             |
| NSSUE2                       | 29.4          | 16.1                     | 16.1                  | 0.1                                | 0.2           | Negligible             | 16.2                     | 0.2   | 0.5           | Negligible             |
| NSSUE3                       | 28.6          | 15.7                     | 15.8                  | 0.1                                | 0.2           | Negligible             | 15.8                     | 0.2   | 0.5           | Negligible             |
| <b>AQMA No.5 Wootton</b>     |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| W1                           | 21.3          | 11.2                     | 11.6                  | 0.4                                | 1.0           | Negligible             | 11.7                     | 0.4   | 1.1           | Negligible             |
| W2                           | 28.0          | 13.9                     | 14.5                  | 0.7                                | 1.6           | Negligible             | 14.5                     | 0.7   | 1.6           | Negligible             |
| W3                           | 23.9          | 12.2                     | 12.7                  | 0.5                                | 1.2           | Negligible             | 12.7                     | 0.5   | 1.2           | Negligible             |
| W4                           | 28.6          | 14.1                     | 14.8                  | 0.7                                | 1.7           | Negligible             | 14.8                     | 0.7   | 1.7           | Negligible             |
| W5                           | 24.9          | 12.6                     | 13.1                  | 0.5                                | 1.3           | Negligible             | 13.1                     | 0.5   | 1.4           | Negligible             |
| <b>AQMA No.4 Kingsthorpe</b> |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| K1                           | 36.5          | 17.2                     | 17.3                  | 0.1                                | 0.3           | Negligible             | 17.4                     | 0.2   | 0.6           | Negligible             |

|                                     |      |      |      |      |      |            |      |     |      |            |
|-------------------------------------|------|------|------|------|------|------------|------|-----|------|------------|
| K2                                  | 27.4 | 14.4 | 14.6 | 0.2  | 0.4  | Negligible | 14.7 | 0.2 | 0.6  | Negligible |
| K3                                  | 44.2 | 19.1 | 19.2 | 0.2  | 0.4  | Negligible | 19.3 | 0.3 | 0.7  | Negligible |
| K4                                  | 40.3 | 22.1 | 22.3 | 0.2  | 0.4  | Negligible | 22.1 | 0.0 | -0.1 | Negligible |
| K5                                  | 38.7 | 19.6 | 19.7 | 0.1  | 0.1  | Negligible | 19.8 | 0.2 | 0.4  | Negligible |
| K6                                  | 39.8 | 20.1 | 20.1 | 0.1  | 0.2  | Negligible | 20.2 | 0.2 | 0.5  | Negligible |
| K7                                  | 44.4 | 22.1 | 22.1 | 0.1  | 0.2  | Negligible | 22.3 | 0.2 | 0.6  | Negligible |
| K8                                  | 30.4 | 16.1 | 16.1 | 0.0  | 0.1  | Negligible | 16.2 | 0.1 | 0.3  | Negligible |
| K9                                  | 27.1 | 14.8 | 14.8 | 0.0  | 0.0  | Negligible | 14.9 | 0.1 | 0.3  | Negligible |
| K10                                 | 42.4 | 22.2 | 22.5 | 0.3  | 0.7  | Negligible | 23.3 | 1.2 | 2.9  | Negligible |
| K11                                 | 34.9 | 18.8 | 18.9 | 0.1  | 0.1  | Negligible | 19.2 | 0.4 | 1.0  | Negligible |
| K12                                 | 35.4 | 18.8 | 18.9 | 0.2  | 0.4  | Negligible | 19.5 | 0.7 | 1.9  | Negligible |
| K13                                 | 39.2 | 19.8 | 19.9 | 0.1  | 0.1  | Negligible | 20.0 | 0.2 | 0.4  | Negligible |
| <b>AQMA No.2 Victoria Promenade</b> |      |      |      |      |      |            |      |     |      |            |
| VP1                                 | 37.8 | 19.7 | 19.7 | 0.0  | 0.0  | Negligible | 19.8 | 0.1 | 0.2  | Negligible |
| VP2                                 | 39.8 | 20.3 | 20.3 | 0.0  | 0.0  | Negligible | 20.4 | 0.1 | 0.3  | Negligible |
| VP3                                 | 50.0 | 23.3 | 23.1 | -0.1 | -0.4 | Negligible | 23.4 | 0.2 | 0.4  | Negligible |
| VP4                                 | 36.4 | 21.7 | 21.7 | 0.0  | 0.0  | Negligible | 21.8 | 0.0 | 0.1  | Negligible |
| VP5                                 | 34.1 | 21.6 | 21.5 | -0.1 | -0.1 | Negligible | 21.5 | 0.0 | 0.0  | Negligible |
| VP6                                 | 36.3 | 22.0 | 22.1 | 0.1  | 0.2  | Negligible | 22.1 | 0.1 | 0.4  | Negligible |
| <b>AQMA No.8 St Michaels Road</b>   |      |      |      |      |      |            |      |     |      |            |
| SM1                                 | 29.1 | 20.3 | 20.2 | 0.0  | 0.0  | Negligible | 20.2 | 0.0 | -0.1 | Negligible |
| SM2                                 | 27.7 | 19.8 | 19.8 | 0.0  | 0.0  | Negligible | 19.8 | 0.0 | -0.1 | Negligible |
| SM3                                 | 27.5 | 19.7 | 19.7 | 0.0  | -0.1 | Negligible | 19.7 | 0.0 | -0.1 | Negligible |
| <b>AQMA No.6 Campbell Square</b>    |      |      |      |      |      |            |      |     |      |            |
| CS1                                 | 62.6 | 31.4 | 31.7 | 0.4  | 0.9  | Negligible | 31.9 | 0.6 | 1.4  | Negligible |
| CS2                                 | 46.5 | 24.7 | 25.1 | 0.3  | 0.9  | Negligible | 25.2 | 0.5 | 1.1  | Negligible |
| CS3                                 | 33.9 | 19.8 | 20.1 | 0.3  | 0.7  | Negligible | 20.1 | 0.3 | 0.8  | Negligible |
| CS4                                 | 35.5 | 21.6 | 22.1 | 0.5  | 1.2  | Negligible | 22.2 | 0.6 | 1.5  | Negligible |
| <b>AQMA No.3 St James</b>           |      |      |      |      |      |            |      |     |      |            |
| SJ1                                 | 46.9 | 23.4 | 23.5 | 0.1  | 0.3  | Negligible | 23.6 | 0.2 | 0.5  | Negligible |
| SJ2                                 | 55.1 | 26.3 | 26.4 | 0.1  | 0.2  | Negligible | 26.4 | 0.2 | 0.4  | Negligible |
| SJ3                                 | 36.3 | 18.6 | 18.6 | 0.0  | 0.1  | Negligible | 18.7 | 0.1 | 0.3  | Negligible |
| SJ4                                 | 56.6 | 27.1 | 27.2 | 0.1  | 0.2  | Negligible | 27.3 | 0.2 | 0.5  | Negligible |
| SJ5                                 | 41.0 | 21.1 | 21.2 | 0.1  | 0.3  | Negligible | 21.4 | 0.3 | 0.7  | Negligible |
| SJ6                                 | 38.6 | 21.9 | 21.9 | 0.0  | 0.0  | Negligible | 22.2 | 0.4 | 0.9  | Negligible |
| SJ7                                 | 41.0 | 23.4 | 23.3 | 0.0  | 0.0  | Negligible | 23.7 | 0.4 | 1.0  | Negligible |



|  |      |      |      |      |      |            |      |     |     |            |
|--|------|------|------|------|------|------------|------|-----|-----|------------|
| TW1                                    | 56.3 | 17.9 | 17.7 | -0.2 | -0.4 | Negligible | 18.9 | 1.1 | 2.7 | Negligible |
| TW2                                    | 31.1 | 11.0 | 10.9 | -0.1 | -0.2 | Negligible | 11.4 | 0.5 | 1.2 | Negligible |
| TW3                                    | 44.1 | 14.4 | 14.2 | -0.1 | -0.3 | Negligible | 15.1 | 0.8 | 1.9 | Negligible |
| <b>Hartwell</b>                        |      |      |      |      |      |            |      |     |     |            |
| H1                                     | 19.4 | 9.1  | 9.1  | 0.0  | 0.0  | Negligible | 9.1  | 0.0 | 0.0 | Negligible |
| H2                                     | 20.7 | 9.7  | 9.7  | 0.0  | 0.0  | Negligible | 9.7  | 0.0 | 0.0 | Negligible |
| H3                                     | 23.4 | 10.8 | 10.8 | 0.0  | 0.1  | Negligible | 10.8 | 0.0 | 0.0 | Negligible |
| H4                                     | 21.3 | 9.9  | 9.9  | 0.0  | 0.1  | Negligible | 9.9  | 0.0 | 0.0 | Negligible |
| <b>Grafton Regis &amp; Potterspury</b> |      |      |      |      |      |            |      |     |     |            |
| GF1                                    | -    | 7.6  | 7.6  | 0.7  | 1.8  | Negligible | 7.6  | 0.7 | 1.7 | Negligible |
| GF2                                    | -    | 7.4  | 7.4  | 0.6  | 1.6  | Negligible | 7.4  | 0.6 | 1.6 | Negligible |
| P1                                     | -    | 6.9  | 7.0  | -0.1 | -0.1 | Negligible | 7.0  | 0.0 | 0.1 | Negligible |
| P2                                     | -    | 7.0  | 7.1  | -0.1 | -0.1 | Negligible | 7.1  | 0.0 | 0.1 | Negligible |

**Table A9.9.2: Predicted Annual Mean PM<sub>10</sub> Concentrations ( $\mu\text{g.m}^{-3}$ ) at Sensitive Receptors (2031)**

| Receptor                     | 2018 Baseline | 2031 Without Development | 2031 With Development | Change due to Proposed Development |               | Significance of Impact | 2031 With + Rail Central | Change due to Proposed Development + Rail Central |               | Significance of Impact |
|------------------------------|---------------|--------------------------|-----------------------|------------------------------------|---------------|------------------------|--------------------------|---|---------------|------------------------|
|                              | A             | B                        | C                     | C-B                                | As a % of AQS |                        | D                        | D-B   | As a % of AQS |                        |
| <b>AQMA No.1 Collingtree</b> |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| C1                           | 20.1          | 19.6                     | 19.8                  | 0.2                                | 0.5           | Negligible             | 19.9                     | 0.3   | 0.7           | Negligible             |
| C2                           | 19.8          | 19.3                     | 19.5                  | 0.2                                | 0.5           | Negligible             | 19.6                     | 0.3   | 0.7           | Negligible             |
| C3                           | 19.6          | 19.1                     | 19.3                  | 0.2                                | 0.5           | Negligible             | 19.3                     | 0.3   | 0.6           | Negligible             |
| C4                           | 19.3          | 18.8                     | 19.0                  | 0.2                                | 0.4           | Negligible             | 19.1                     | 0.2   | 0.6           | Negligible             |
| C5                           | 18.3          | 17.8                     | 17.9                  | 0.1                                | 0.3           | Negligible             | 18.0                     | 0.2   | 0.4           | Negligible             |
| C6                           | 18.8          | 18.3                     | 18.4                  | 0.1                                | 0.4           | Negligible             | 18.5                     | 0.2   | 0.5           | Negligible             |
| C7                           | 18.6          | 18.0                     | 18.1                  | 0.1                                | 0.3           | Negligible             | 18.2                     | 0.2   | 0.5           | Negligible             |
| C8                           | 19.0          | 18.4                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.7                     | 0.2   | 0.5           | Negligible             |
| C9                           | 19.0          | 18.4                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.7                     | 0.2   | 0.5           | Negligible             |
| C10                          | 19.0          | 18.4                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.6                     | 0.2   | 0.5           | Negligible             |
| C11                          | 19.0          | 18.4                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.6                     | 0.2   | 0.5           | Negligible             |
| C12                          | 19.0          | 18.4                     | 18.6                  | 0.2                                | 0.4           | Negligible             | 18.6                     | 0.2   | 0.5           | Negligible             |
| C13                          | 19.3          | 18.7                     | 18.9                  | 0.2                                | 0.4           | Negligible             | 19.0                     | 0.2   | 0.6           | Negligible             |
| C14                          | 19.2          | 18.7                     | 18.9                  | 0.2                                | 0.4           | Negligible             | 19.0                     | 0.2   | 0.6           | Negligible             |
| C15                          | 19.2          | 18.7                     | 18.9                  | 0.2                                | 0.4           | Negligible             | 18.9                     | 0.2   | 0.6           | Negligible             |
| C16                          | 20.0          | 19.5                     | 19.7                  | 0.2                                | 0.5           | Negligible             | 19.8                     | 0.3   | 0.7           | Negligible             |
| C17                          | 19.2          | 18.7                     | 18.8                  | 0.2                                | 0.4           | Negligible             | 18.9                     | 0.2   | 0.6           | Negligible             |
| NSSUE1                       | 18.0          | 17.5                     | 17.6                  | 0.1                                | 0.3           | Negligible             | 17.6                     | 0.1   | 0.4           | Negligible             |
| NSSUE2                       | 18.4          | 17.9                     | 18.0                  | 0.1                                | 0.3           | Negligible             | 18.0                     | 0.2   | 0.4           | Negligible             |
| NSSUE3                       | 18.3          | 17.7                     | 17.9                  | 0.1                                | 0.3           | Negligible             | 17.9                     | 0.2   | 0.4           | Negligible             |
| <b>AQMA No.5 Wootton</b>     |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| W1                           | 17.9          | 17.5                     | 17.9                  | 0.4                                | 1.0           | Negligible             | 17.9                     | 0.4   | 1.0           | Negligible             |
| W2                           | 19.2          | 18.8                     | 19.6                  | 0.7                                | 1.8           | Negligible             | 19.5                     | 0.7   | 1.8           | Negligible             |
| W3                           | 18.4          | 17.9                     | 18.5                  | 0.5                                | 1.4           | Negligible             | 18.5                     | 0.5   | 1.4           | Negligible             |
| W4                           | 19.3          | 18.9                     | 19.7                  | 0.8                                | 1.9           | Negligible             | 19.7                     | 0.8   | 1.9           | Negligible             |
| W5                           | 18.6          | 18.1                     | 18.7                  | 0.6                                | 1.5           | Negligible             | 18.7                     | 0.6   | 1.5           | Negligible             |
| <b>AQMA No.4 Kingsthorpe</b> |               |                          |                       |                                    |               |                        |                          |   |               |                        |
| K1                           | 21.2          | 20.2                     | 20.2                  | 0.1                                | 0.2           | Negligible             | 20.3                     | 0.1   | 0.3           | Negligible             |
| K2                           | 19.6          | 18.8                     | 18.9                  | 0.1                                | 0.2           | Negligible             | 18.9                     | 0.1   | 0.3           | Negligible             |

|     |      |      |      |     |     |            |      |     |     |            |
|-----|------|------|------|-----|-----|------------|------|-----|-----|------------|
| K3  | 22.6 | 21.0 | 21.1 | 0.1 | 0.2 | Negligible | 21.2 | 0.1 | 0.4 | Negligible |
| K4  | 21.7 | 22.0 | 22.2 | 0.1 | 0.3 | Negligible | 22.1 | 0.0 | 0.1 | Negligible |
| K5  | 21.7 | 21.4 | 21.4 | 0.1 | 0.2 | Negligible | 21.5 | 0.2 | 0.4 | Negligible |
| K6  | 22.0 | 21.6 | 21.7 | 0.1 | 0.2 | Negligible | 21.8 | 0.2 | 0.5 | Negligible |
| K7  | 23.0 | 22.6 | 22.7 | 0.1 | 0.2 | Negligible | 22.8 | 0.2 | 0.6 | Negligible |
| K8  | 20.1 | 19.7 | 19.7 | 0.0 | 0.1 | Negligible | 19.8 | 0.1 | 0.3 | Negligible |
| K9  | 19.1 | 19.1 | 19.1 | 0.0 | 0.1 | Negligible | 19.2 | 0.1 | 0.3 | Negligible |
| K10 | 21.4 | 21.1 | 21.2 | 0.1 | 0.2 | Negligible | 21.4 | 0.3 | 0.7 | Negligible |
| K11 | 20.8 | 20.6 | 20.6 | 0.1 | 0.1 | Negligible | 20.8 | 0.3 | 0.7 | Negligible |
| K12 | 19.9 | 20.0 | 20.1 | 0.0 | 0.1 | Negligible | 20.3 | 0.2 | 0.5 | Negligible |
| K13 | 21.0 | 21.5 | 21.6 | 0.1 | 0.2 | Negligible | 21.7 | 0.2 | 0.4 | Negligible |

#### AQMA No.2 Victoria Promenade

|     |      |      |      |      |      |            |      |     |     |            |
|-----|------|------|------|------|------|------------|------|-----|-----|------------|
| VP1 | 19.6 | 17.4 | 17.3 | -0.1 | -0.1 | Negligible | 17.4 | 0.0 | 0.1 | Negligible |
| VP2 | 19.8 | 17.6 | 17.6 | 0.0  | -0.1 | Negligible | 17.6 | 0.0 | 0.1 | Negligible |
| VP3 | 20.9 | 18.8 | 18.8 | 0.0  | 0.0  | Negligible | 18.9 | 0.1 | 0.2 | Negligible |
| VP4 | 19.1 | 18.3 | 18.2 | 0.0  | 0.0  | Negligible | 18.3 | 0.0 | 0.0 | Negligible |
| VP5 | 18.8 | 18.2 | 18.1 | 0.0  | -0.1 | Negligible | 18.1 | 0.0 | 0.0 | Negligible |
| VP6 | 19.3 | 18.6 | 18.6 | 0.1  | 0.2  | Negligible | 18.7 | 0.1 | 0.2 | Negligible |

#### AQMA No.8 St Michaels Road

|     |      |      |      |     |     |            |      |     |     |            |
|-----|------|------|------|-----|-----|------------|------|-----|-----|------------|
| SM1 | 16.9 | 16.5 | 16.4 | 0.0 | 0.0 | Negligible | 16.4 | 0.0 | 0.0 | Negligible |
| SM2 | 16.9 | 16.4 | 16.4 | 0.0 | 0.0 | Negligible | 16.4 | 0.0 | 0.0 | Negligible |
| SM3 | 17.7 | 17.3 | 17.3 | 0.0 | 0.0 | Negligible | 17.3 | 0.0 | 0.0 | Negligible |

#### AQMA No.6 Campbell Square

|     |      |      |      |     |     |            |      |     |     |            |
|-----|------|------|------|-----|-----|------------|------|-----|-----|------------|
| CS1 | 25.3 | 25.7 | 25.8 | 0.2 | 0.4 | Negligible | 25.9 | 0.3 | 0.7 | Negligible |
| CS2 | 22.2 | 22.3 | 22.5 | 0.1 | 0.3 | Negligible | 22.5 | 0.2 | 0.5 | Negligible |
| CS3 | 20.1 | 20.1 | 20.2 | 0.1 | 0.3 | Negligible | 20.2 | 0.1 | 0.3 | Negligible |
| CS4 | 20.2 | 20.7 | 20.9 | 0.2 | 0.5 | Negligible | 20.9 | 0.2 | 0.6 | Negligible |

#### AQMA No.3 St James

|      |      |      |      |     |      |            |      |     |     |            |
|------|------|------|------|-----|------|------------|------|-----|-----|------------|
| SJ1  | 20.5 | 21.3 | 21.4 | 0.0 | 0.1  | Negligible | 21.4 | 0.1 | 0.2 | Negligible |
| SJ2  | 20.9 | 21.7 | 21.7 | 0.0 | 0.1  | Negligible | 21.8 | 0.1 | 0.2 | Negligible |
| SJ3  | 18.2 | 18.8 | 18.8 | 0.0 | 0.0  | Negligible | 18.8 | 0.0 | 0.1 | Negligible |
| SJ4  | 21.2 | 22.0 | 22.1 | 0.0 | 0.1  | Negligible | 22.1 | 0.1 | 0.2 | Negligible |
| SJ5  | 19.3 | 20.1 | 20.1 | 0.0 | 0.1  | Negligible | 20.2 | 0.1 | 0.3 | Negligible |
| SJ6  | 18.9 | 20.4 | 20.4 | 0.0 | 0.0  | Negligible | 20.6 | 0.2 | 0.4 | Negligible |
| SJ7  | 19.4 | 21.0 | 21.0 | 0.0 | 0.0  | Negligible | 21.2 | 0.2 | 0.4 | Negligible |
| SJ8  | 18.9 | 20.5 | 20.5 | 0.0 | -0.1 | Negligible | 20.7 | 0.2 | 0.6 | Negligible |
| SJ9  | 20.3 | 21.9 | 21.9 | 0.0 | 0.1  | Negligible | 22.1 | 0.2 | 0.5 | Negligible |
| SJ10 | 19.7 | 21.3 | 21.3 | 0.0 | 0.0  | Negligible | 21.5 | 0.2 | 0.5 | Negligible |

|                                      |      |      |      |      |      |            |      |      |      |            |
|--------------------------------------|------|------|------|------|------|------------|------|------|------|------------|
| SJ11                                 | 17.1 | 17.9 | 17.9 | 0.0  | 0.0  | Negligible | 17.9 | 0.1  | 0.2  | Negligible |
| SJ12                                 | 18.7 | 18.9 | 19.0 | 0.0  | 0.1  | Negligible | 19.0 | 0.1  | 0.3  | Negligible |
| SJ13                                 | 16.7 | 17.5 | 17.4 | 0.0  | -0.1 | Negligible | 17.5 | 0.0  | 0.0  | Negligible |
| SJ14                                 | 17.4 | 18.1 | 18.1 | -0.1 | -0.1 | Negligible | 18.1 | 0.0  | 0.1  | Negligible |
| SJ15                                 | 19.4 | 20.3 | 20.2 | -0.1 | -0.3 | Negligible | 20.3 | 0.0  | 0.1  | Negligible |
| SJ16                                 | 18.7 | 19.9 | 19.8 | -0.1 | -0.3 | Negligible | 19.9 | 0.0  | 0.0  | Negligible |
| <b>Roade &amp; WLC</b>               |      |      |      |      |      |            |      |      |      |            |
| RO1                                  | 16.0 | 15.3 | 14.4 | -1.0 | 2.4  | Negligible | 14.4 | -1.0 | -2.4 | Negligible |
| RO2                                  | 16.4 | 15.7 | 14.4 | -1.2 | 3.1  | Negligible | 14.5 | -1.2 | -3.0 | Negligible |
| RO3                                  | 15.0 | 14.6 | 14.2 | -0.4 | 1.1  | Negligible | 14.2 | -0.4 | -1.1 | Negligible |
| RO4                                  | 14.9 | 14.7 | 14.3 | -0.4 | 0.9  | Negligible | 14.3 | -0.4 | -1.0 | Negligible |
| RO5                                  | 16.2 | 15.6 | 14.4 | -1.2 | 3.1  | Negligible | 14.4 | -1.2 | -3.0 | Negligible |
| RO6                                  | 17.4 | 16.8 | 14.5 | -2.3 | 5.8  | Slight     | 14.5 | -2.3 | -5.8 | Slight     |
| RO7                                  | 16.8 | 16.2 | 14.2 | -2.0 | 4.9  | Negligible | 14.2 | -2.0 | -5.0 | Negligible |
| RO8                                  | 14.5 | 14.1 | 14.0 | 0.0  | 0.1  | Negligible | 14.0 | 0.0  | -0.1 | Negligible |
| RO9                                  | 14.1 | 13.7 | 14.3 | 0.6  | -1.6 | Negligible | 14.3 | 0.6  | 1.5  | Negligible |
| RO10                                 | 16.4 | 15.8 | 14.1 | -1.7 | 4.3  | Negligible | 14.1 | -1.7 | -4.3 | Negligible |
| RO11                                 | 15.4 | 14.9 | 14.0 | -0.9 | 2.3  | Negligible | 13.9 | -0.9 | -2.3 | Negligible |
| WLC1                                 | 17.1 | 15.6 | 16.7 | 1.1  | -2.9 | Negligible | 16.6 | 1.0  | 2.6  | Negligible |
| WLC2                                 | 17.9 | 15.6 | 16.8 | 1.2  | -2.9 | Negligible | 16.7 | 1.1  | 2.7  | Negligible |
| <b>Blisworth &amp; Milton Malsor</b> |      |      |      |      |      |            |      |      |      |            |
| BL1                                  | 14.5 | 14.3 | 14.2 | -0.2 | -0.4 | Negligible | 14.3 | 0.0  | 0.0  | Negligible |
| BL2                                  | 14.8 | 14.4 | 14.3 | 0.0  | -0.1 | Negligible | 14.4 | 0.0  | -0.1 | Negligible |
| BL3                                  | 15.7 | 15.2 | 15.2 | 0.0  | -0.1 | Negligible | 15.2 | 0.0  | -0.1 | Negligible |
| BL4                                  | 15.0 | 14.2 | 13.9 | -0.3 | -0.6 | Negligible | 14.0 | -0.2 | -0.6 | Negligible |
| BL5                                  | 15.2 | 14.3 | 14.1 | -0.3 | -0.7 | Negligible | 14.1 | -0.2 | -0.5 | Negligible |
| MM1                                  | 14.8 | 14.3 | 14.4 | 0.1  | 0.1  | Negligible | 14.4 | 0.1  | 0.2  | Negligible |
| MM2                                  | 16.1 | 15.8 | 16.0 | 0.2  | 0.4  | Negligible | 15.9 | 0.1  | 0.2  | Negligible |
| MM3                                  | 14.7 | 14.2 | 14.1 | 0.0  | 0.0  | Negligible | 14.2 | 0.0  | 0.0  | Negligible |
| MM4                                  | 14.9 | 14.7 | 14.6 | -0.1 | -0.2 | Negligible | 14.6 | -0.1 | -0.1 | Negligible |
| MM5                                  | 14.6 | 14.2 | 14.2 | 0.0  | 0.0  | Negligible | 14.3 | 0.0  | 0.1  | Negligible |
| BL6                                  | 16.8 | 16.1 | 16.3 | 0.2  | 0.5  | Negligible | 17.5 | 1.4  | 3.6  | Negligible |
| <b>Towcester</b>                     |      |      |      |      |      |            |      |      |      |            |
| TW1                                  | 22.9 | 19.1 | 19.0 | -0.1 | -0.1 | Negligible | 19.6 | 0.5  | 1.2  | Negligible |
| TW2                                  | 18.3 | 16.3 | 16.3 | 0.0  | -0.1 | Negligible | 16.5 | 0.2  | 0.5  | Negligible |
| TW3                                  | 20.5 | 17.7 | 17.6 | 0.0  | -0.1 | Negligible | 18.0 | 0.3  | 0.8  | Negligible |
| <b>Hartwell</b>                      |      |      |      |      |      |            |      |      |      |            |
| H1                                   | 15.6 | 15.0 | 15.0 | 0.0  | 0.0  | Negligible | 15.0 | 0.0  | 0.0  | Negligible |

|  |      |      |      |      |      |            |      |     |     |            |
|--|------|------|------|------|------|------------|------|-----|-----|------------|
| H2                                     | 15.8 | 15.2 | 15.2 | 0.0  | 0.1  | Negligible | 15.2 | 0.0 | 0.1 | Negligible |
| H3                                     | 16.1 | 15.5 | 15.6 | 0.0  | 0.1  | Negligible | 15.6 | 0.1 | 0.1 | Negligible |
| H4                                     | 15.8 | 15.2 | 15.3 | 0.0  | 0.1  | Negligible | 15.3 | 0.0 | 0.1 | Negligible |
| <b>Grafton Regis &amp; Potterspury</b> |      |      |      |      |      |            |      |     |     |            |
| GF1                                    | -    | 16.4 | 17.8 | 1.4  | 3.4  | Negligible | 17.7 | 1.3 | 3.3 | Negligible |
| GF2                                    | -    | 16.1 | 17.4 | 1.2  | 3.1  | Negligible | 17.4 | 1.2 | 3.0 | Negligible |
| P1                                     | -    | 16.4 | 16.3 | -0.1 | -0.3 | Negligible | 16.5 | 0.1 | 0.3 | Negligible |
| P2                                     | -    | 16.6 | 16.5 | -0.1 | -0.3 | Negligible | 16.7 | 0.1 | 0.3 | Negligible |