distance from busy roadsides, with levels showing a general decrease with increasing distance from roadside.

### 8.1.9 Royal Borough of Kingston Upon Thames (Figure 9)

The AQS was equalled at KT06, a roadside site located on Clarence Street. The lowest mean concentration of 2 ppb was recorded at Beverly Boys School, a background site. There was a reasonably clear relationship between mean concentrations and distance from busy roadsides, with levels showing an overall decline with increasing distance from roadside.

### 8.1.10 London Borough of Newham (Figure 10)

Mean benzene concentrations were similar across all sites, ranging from 1 ppb at Sites 8, 9, 11 and 12 (all roadside locations), to 4 ppb at Site 3 located on Romford Road. The AQS was not exceeded or approached at any site. There was no apparent relationship between mean concentrations and distance from busy roadsides.

### 8.1.11 London Borough of Richmond (Figure 11)

There was a clear relationship between mean concentrations and distance from busy roadsides with levels declining with increasing distance from the roadside. A maximum level of 4 ppb was recorded at York Street in Twickenham - a kerbside site. Levels at the remaining two sites both measured 2 ppb, thus benzene concentrations at all sites were below the AQS. There was a decrease in mean concentrations from kerbside to roadside sites, with no further decrease shown to the background location.

### 8.1.12 London Borough of Sutton (Figure 12)

Mean concentrations ranged from 2 ppb recorded at all sites except SUT1 (roadside), where a mean of 3 ppb was recorded. The AQS was not equalled or exceeded at any site. There was no clear relationship between mean concentration recorded and distance from busy roadsides.

### 8.2.7 London Borough of Harrow (Figure 22)

Temporal trends were similar at all five sites; a small peak was evident at all sites with the exception of the petrol station site in October. Levels were generally highest at HW05, a roadside site, and reasonably similar at the remaining sites. Levels at all sites showed little month to month variation.

### 8.2.8 Royal Borough of Kensington and Chelsea (Figure 23)

Figure 23 illustrates temporal trends across all sites. The largest variation in values was recorded at KC03, a petrol station site, where concentrations varied between 0 and 14 ppb. Consistently high values were also recorded at KC01, a kerbside site. Concentrations at this site ranged from 3 to 9 ppb. Levels were lowest at the background sites KC02 and KC04, where values varied from 1 to 4 ppb. A slight peak was evident at all sites in September and November.

### 8.2.9 Royal Borough of Kingston Upon Thames (Figure 24)

Figure 24 illustrates that temporal trends were quite similar across all sites. A peak was evident at all sites in November, this was followed by an overall increase in levels in December. Levels were consistently high at KT06, a roadside location. There was little intersite difference at the remaining locations.

### 8.2.10 London Borough of Newham (Figures 25a and b)

Temporal trends for 1996 can not properly be established given the limited data set available, however there appears to be little variation in both temporal trends and absolute values across the sites.

### 8.2.11 London Borough of Richmond (Figure 26)

Figure 26 illustrates temporal trends for 1996. Levels were consistently highest at RUT01, a kerbside site, ranging from 1 ppb to 12 ppb. Levels were quite similar at the two remaining sites. No clear temporal pattern was evident.

Figure 11. Annual Mean Benzene Concentrations - 1996
London Borough of Richmond

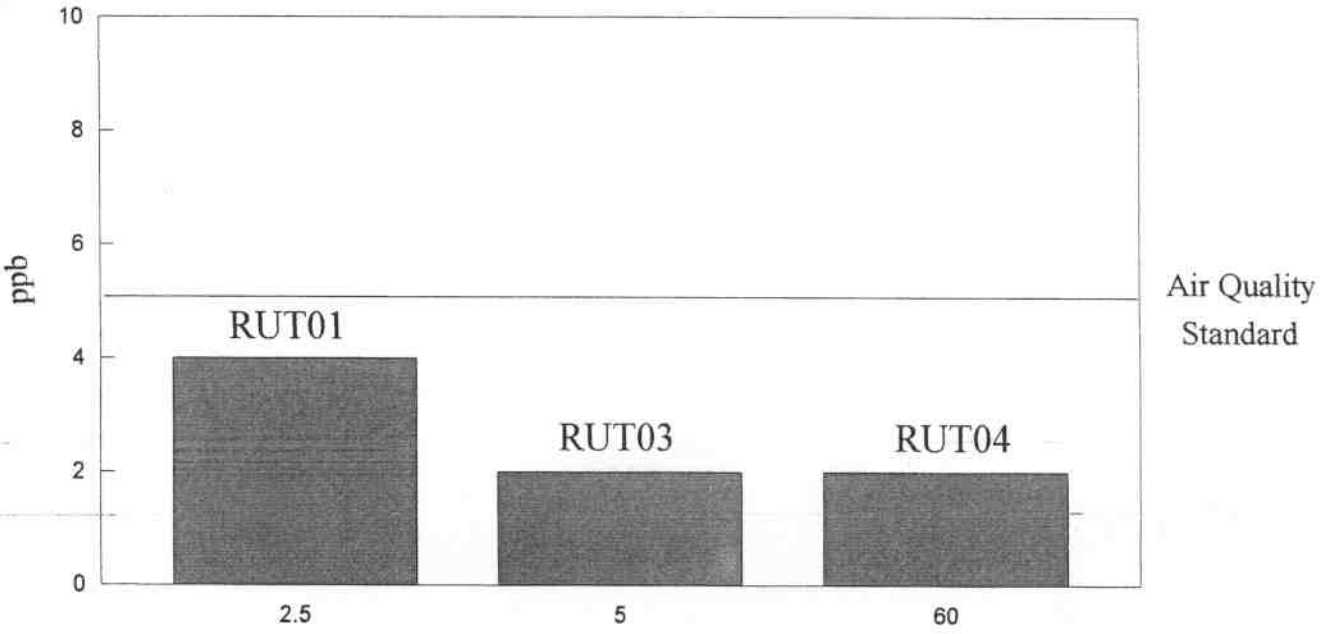
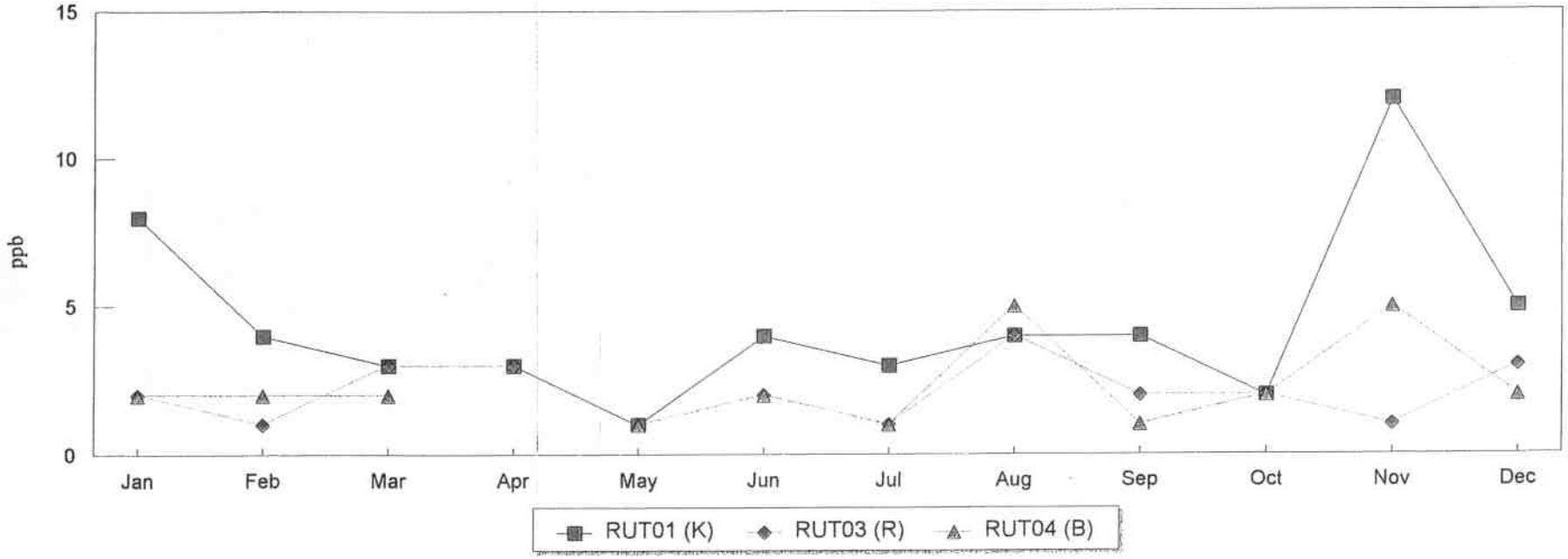


Figure 26. Temporal Variation - London Borough of Richmond



**London Borough of Richmond**

| Site Code | Location | Distance from Busy Road (m) | Classification |
|---|---|---|---|
| RUT01 | York Street, Twickenham | 2.5 | kerbside |
| RUT03 | Alexandra Hall, Mortlake | 5 | roadside |
| RUT04 | Waldegrave Road, Teddington | 50-70 | background |

**London Borough of Sutton**

| Site Code | Location | Distance from Busy Road (m) | Classification |
|---|---|---|---|
| Site 1 | Croydon Road, Wallington | 8 | roadside |
| Site 2 | Devonshire Primary School | 42 | background |
| Site 3 | Sutton Cemetery | 100 | background |
| Site 4 | Robin Hood Junior School | 4 | roadside |
| Site 5 | The Lodge, Honeywood Walk | 75 | background |

# BENZENE CONCENTRATIONS 1995

## LONDON BOROUGH OF KINGSTON

| Month | Code KT2 | KT3 | KT5 | KT6 | KT7 |
|---|---|---|---|---|---|
| January | 1 | 1 | 2 | 5 | 1 |
| February | 1 | 1 | 2 | 4 | 0 |
| March | 1 | 1 | 3 | 6 | 3 |
| April | 2 | 5 | 3 | 4 | 2 |
| May | 3 | 2 | 3 | 7 | 4 |
| June | 1 | 1 | 1 | 2 | 1 |
| July | 2 | 3 | 2 | 4 | 2 |
| August | 2 | 1 | 2 | 3 | 3 |
| September | 3 | 1 | 2 | 5 | 4 |
| October | 2 | 3 | 3 | 6 | 3 |
| November | 5 | 4 | 7 | 8 | 6 |
| December | 2 | 1 | 2 | 6 | 2 |
| Annual Mean | **2** | **3** | **3** | **5** | **3** |

## LONDON BOROUGH OF RICHMOND

| Month | Site Code RUT01 | RUT03 | RUT04 |
|---|---|---|---|
| January | 8 | 2 | 2 |
| February | 4 | 1 | 2 |
| March | 3 | 3 | 2 |
| April | 3 | 3 | - |
| May | 1 | - | 1 |
| June | 4 | 2 | 2 |
| July | 3 | 1 | 1 |
| August | 4 | 4 | 5 |
| September | 4 | 2 | 1 |
| October | 2 | 2 | 2 |
| November | 12 | 1 | 5 |
| December | 5 | 3 | 2 |
| Annual Mean | **4** | **2** | **2** |

## TOLUENE CONCENTRATIONS 1996

### ROYAL BOROUGH OF KENSINGTON AND CHELSEA

| Month | Site Code KC01 | KC02 | KC03 | KC04 | KC05 |
|---|---|---|---|---|---|
| April | - | 16 | - | - | - |
| May | 12 | 6 | - | 9 | - |
| June | 20 | 18 | 20 | 19 | 25 |
| July | 8 | 3 | 15 | 0 | 6 |
| August | 21 | 16 | 37 | 22 | 14 |
| September | 16 | 8 | 37 | 22 | 14 |
| October | 8 | 3 | 15 | 0 | 6 |
| November | 21 | 16 | 37 | 22 | 14 |
| December | 16 | 8 | 16 | 13 | 9 |
| Annual Mean | **15** | **10** | **25** | **13** | **13** |

### LONDON BOROUGH OF RICHMOND

| Month | Site Code RUT01 | RUT03 | RUT04 |
|---|---|---|---|
| April | 14 | 12 | - |
| May | 4 | - | 8 |
| June | 6 | 6 | 4 |
| July | 10 | 5 | 7 |
| August | 9 | 11 | 14 |
| September | 8 | 6 | 6 |
| October | 6 | 6 | 6 |
| November | 14 | 6 | 14 |
| December | 20 | 11 | 8 |
| Annual Mean | **10** | **8** | **8** |

## ETHYL BENZENE CONCENTRATIONS 1996

ROYAL BOROUGH OF KENSINGTON AND CHELSEA

| Month | Site Code KC01 | KC02 | KC03 | KC04 | KC05 |
|---|---|---|---|---|---|
| April | 3 | 2 | 1 | 1 | 4 |
| May | 2 | 1 | 4 | 2 | - |
| June | 2 | 1 | 3 | 2 | 1 |
| July | 1 | 1 | 3 | 0 | 1 |
| August | 2 | 1 | 3 | 1 | 1 |
| September | 3 | 2 | 3 | 2 | 2 |
| October | 2 | 1 | 4 | 2 | 2 |
| November | - | 1 | 3 | 1 | 1 |
| December | - | 1 | 0 | - | 1 |
| Annual Mean | **2** | **1** | **3** | **1** | **2** |

LONDON BOROUGH OF RICHMOND

| Month | Site Code RUT01 | RUT03 | RUT04 |
|---|---|---|---|
| April | - | 1 | 1 |
| May | 0 | - | 1 |
| June | 3 | 1 | 1 |
| July | 2 | 0 | 1 |
| August | 2 | 2 | 4 |
| September | 2 | 1 | 1 |
| October | 1 | 1 | 1 |
| November | 4 | 1 | 2 |
| December | 2 | 1 | 1 |
| Annual Mean | **2** | **1** | **1** |

## M,P XYLENE CONCENTRATIONS 1996

### ROYAL BOROUGH OF KENSINGTON AND CHELSEA

| Month | Site Code KC01 | KC02 | KC03 | KC04 | KC05 |
|---|---|---|---|---|---|
| April | 6 | 2 | 3 | 2 | 6 |
| May | 4 | 1 | 6 | 4 | - |
| June | 3 | 1 | 4 | 4 | 2 |
| July | 3 | 1 | 6 | 0 | 2 |
| August | 4 | 2 | 8 | 3 | 2 |
| September | 6 | 2 | 5 | 3 | 3 |
| October | 4 | 2 | 6 | 3 | 3 |
| November | - | 2 | 5 | 3 | 3 |
| December | - | 2 | 1 | - | 4 |
| Annual Mean | **4** | **2** | **5** | **3** | **3** |

### LONDON BOROUGH OF RICHMOND

| Month | Site Code RUT01 | RUT03 | RUT04 |
|---|---|---|---|
| April | - | 2 | 2 |
| May | 1 | - | 2 |
| June | 5 | 1 | 2 |
| July | 3 | 1 | 1 |
| August | 3 | 2 | 5 |
| September | 3 | 2 | 1 |
| October | 1 | 2 | 2 |
| November | 7 | 1 | 3 |
| December | 6 | 4 | 3 |
| Annual Mean | **4** | **2** | **2** |