

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2005

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40 \mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 1 (711)	30.1	39.4	33.0	35.0	35.6	33.8	44.4	30.0	35.1	29.7	47.1	44.2	36.5	<b>40.1</b>
Tesco (712)	19.0	26.0	29.8	27.8	23.7	27.3	26.7	21.8	23.7	26.7	23.3	26.3	25.2	27.7
High East Street 1 (714)	25.3	27.7	29.2	38.3	38.8	39.0	39.0	32.4	38.4	34.3	34.9		34.3	37.7
Monkey's Jump Roundabout	16.2	27.0	27.2	27.7	27.9	31.9	32.1	29.7	30.1	27.1	18.1	26.3	26.8	29.4

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2006

**Note:**  
 Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
 Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
 See bias adjusted annual averages for final accurate results

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 1 (711)	42.2	45.2	34.6	38.1	36.9	37.4	29.9	34.4	26.0	32.1	40.7	48.0	37.1	37.5
Tesco (712)	33.1	25.7	24.7	22.4	25.1	37.4	31.7	19.8	29.1	19.1	25.2	26.0	26.6	26.9
High East Street 1 (714)	40.1	39.9	42.5	39.3	44.4	47.8	45.5	36.8	48.2	43.2	44.5	45.0	<b>43.1</b>	<b>43.5</b>
Monkey's Jump Roundabout	32.6	21.8	26.7	24.2	30.5	38.9	40.1	25.9	33.1	31.8	22.9		29.9	30.2

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2007

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 1 (711)	42.3	41.4	25.7	47.1	46.9	42.3	42.6	46.3	52.1	50.8	50.1	43.3	<b>44.2</b>	<b>41.1</b>
Tesco (712)	21.1	26.6	42.2	44.0	23.6	29.9	22.7	27.1	31.5	37.2	33.0	33.5	31.0	28.9
High East Street 2 (713)	39.8	44.8	21.6	39.6	37.6	45.9	44.1	40.7	40.1	49.4	101.5	47.9	<b>46.1</b>	<b>42.9</b>
High East Street 1 (714)	38.9	44.7	36.1	39.1	35.5	47.5	45.0	39.3	35.1	49.4	48.9	45.9	<b>42.1</b>	<b>39.2</b>

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2008

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40 \mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 1 (711)	40.1	53.5	36.8	41.7	49.8	43.9	35.7	36.1	47.4	43.7	53.6	58.8	<b>45.1</b>	<b>41.9</b>
Tesco (712)	23.6	36.9	18.2	27.4	45.8	30.8	24.1	25.6	32.3	26.0	23.6	31.7	28.8	26.8
High East Street 2 (713)	51.9		43.0	48.2	45.0	40.9		37.2	36.3	30.8	34.3	43.3	<b>41.1</b>	38.2
High East Street 1 (714)	58.8	53.8	38.9	44.0	41.0	42.3	53.1	52.0	43.4	43.2	38.1	46.6	<b>46.3</b>	<b>43.0</b>

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2009

**Note:**  
 Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$   
 Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year  
 See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)		38.1	35.6	36.6	32.6	23.0	32.6	30.2	40.7	38.9	31.5	24.8	33.1	32.8
High West Street 1 (711)	60.2	52.3	45.8	46.5	39.6	25.9	34.8	33.7	46.0	71.7	37.9	46.5	<b>45.1</b>	<b>44.6</b>
Trinity Street (712)		41.9	37.0	37.7	31.4	19.5	28.8	28.8	32.8	41.0			33.2	32.9
High East Street 2 (713)	49.2	45.7	38.7	46.1	37.3	29.7	41.2	35.1	31.5	44.7	39.9	41.1	<b>40.0</b>	<b>39.6</b>
High East Street 1 (714)	59.5	51.1	49.2	44.8	46.9	37.2	51.3	44.4	32.4	51.1	52.3	40.1	<b>46.7</b>	<b>46.2</b>
High East Street 1 (731)				46.2	45.2	34.1	51.8	46.3	33.6	54.9	54.5	42.1	<b>45.4</b>	<b>44.9</b>
High East Street 1 (732)				41.2	41.0	34.5	51.2	46.0	33.8	47.5	53.7	43.8	<b>43.6</b>	<b>43.2</b>

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2010

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	39.4	36.5	30.5	31.8	35.7	29.2	28.7	33.3	34.9	35.6	44.7	40.8	35.1	34.7
High West Street 1 (711)	52.7	41.9	45.5	40.3	41.4	33.5	34.7	39.4	44.4	35.2	51.7	42.6	<b>41.9</b>	<b>41.8</b>
Trinity Street (712)	32.1	30.0	31.0	32.4	32.9	25.9	26.6	30.7	31.3	38.2	36.2	34.9	31.8	31.4
High East Street 2 (713)	44.9	35.4	35.5	31.0	32.7	25.6	34.3	30.9	36.8	33.1	38.9	35.1	34.5	34.1
High East Street 1 (714)	45.5	40.5	39.8	37.2	38.4	37.0	40.4	40.5	48.0	40.6	46.8	37.0	<b>41.0</b>	<b>40.6</b>
High East Street 1 (731)	45.3	41.4	44.7	37.5	35.9	38.2	43.3	41.7	49.5	46.9	43.3	37.4	<b>42.1</b>	<b>41.6</b>
High East Street 1 (732)	49.5	40.6	40.5	34.8	41.6	39.3	43.0	41.2	44.0	41.7	38.7	36.4	<b>40.9</b>	<b>40.5</b>
Maumbury Rd (716)	38.2	31.8	33.4	27.6	30.5				35.0	30.3	40.2	36.4	33.7	33.4
The Grove (715)			37.9	32.0		33.9	41.1	40.9	45.9		40.2	37.8	38.7	38.3
Church Street (718)	38.7	38.7	27.7	22.8	22.6	19.5	16.4	21.3	23.4	22.2	29.5	32.4	26.2	25.9
Bridport Road (719)	32.4	28.6	26.1	24.7	28.7	21.5		20.9	27.0	34.0	35.2	34.5	28.5	28.2
Borough Gardens (720)	22.8	19.1	13.9				10.1	11.7	14.0	13.4	20.4	22.1	16.4	16.2

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2011

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	43	38	28	41	24	30	33	35	25	32	42	27	33	31
High West Street 1 (711)	48	49	47	48	30	35	37	41	32	38	51	42	42	39
Trinity Street (712)	41	42	38	42	27	30	33	25	15	33	39	33	33	31
High East Street 2 (713)	37.5	39.7	43.7	36.1	28.3	29.2	31.1	36.1	29.9	36.7	45.7	30.7	35.4	32.9
High East Street 1 (714)	41.3	51.7		40.9	37.6	39.0	40.6	56.4	42.7	49.3	56.7	41.4	45.2	42.1
High East Street 1 (731)	40.6	51.2	47.4											
High East Street 1 (732)	40.9	48.5	45.7											
The White Hart (733)				20.0	27.6	16.2	15.2	18.3			42.3	23.9	23.3	21.7
Maumbury Road (716)	41.1	43.2	41.5					33.4	25.6		35.4	26.2	35.2	32.7
The Grove (715)	40.0	36.7	35.9	38.4	33.5	33.2	38.1	47.5	32.9	39.1	41.0	27.8	37.0	32.9
Church Street (718)	35.3	26.1	24.8	28.7	13.8	19.5	21.1	19.9	15.3	21.3	30.0	18.2	22.8	21.2
Bridport Road (719)	34.8	31.6	19.4	33.6				22.2	18.2	22.2	34.0	17.6	26.0	26.0
Borough Gardens (720)	23.3	20.0						11.2	9.1	13.0	19.5	10.2	15.2	12.6

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2012

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	38.2	44.3	38.3	29.2	24.9	18.5	21.3	23.7	32.7	32.8	37.3	28.9	30.8	31.0
High West Street 1 (711)	48.5	48.7	44.7	45.0	22.5	24.7	20.2	29.5	39.4	41.0	46.6	45.4	38.0	38.4
Trinity Street (712)	35.1	36.9	35.8	28.0	27.7	25.4	26.3	27.3	39.9	28.4	35.5	35.6	31.8	32.1
High East Street 2 (713)	41.2	36.8	39.2	25.3	26.1	30.2	28.4	34.5	40.8	29.1	41.1	36.8	34.1	34.4
High East Street 1 (714)	43.9	46.2	46.5	41.1	29.6	39.4	40.6	47.6	49.3	38.0	44.4	36.0	<b>41.9</b>	<b>42.3</b>
The White Hart (733)	26.7	23.1	24.0	15.4	<i>missing</i>	<i>missing</i>	<i>missing</i>	<i>missing</i>					22.3	
Great Western Road (733)										30.9	30.9	<i>missing</i>	n/a	n/a
Maumbury Road (716)		37.1	38.4	19.2	24.2		27.8	27.9	34.5	30.7	36.7	27.6	30.4	30.7
The Grove (715)	35.2	39.4	37.6	31.1	27.5		36.8		45.3	35.0	39.9	29.3	35.7	36.1
Church Street (718)	26.2	29.7	30.5	23.4	18.7	14.4	13.8			21.1		<i>missing</i>	22.2	22.4
Bridport Road (719)	31.2	29.6		19.8	21.1	14.6		17.6	22.0	24.0		<i>missing</i>	22.5	22.7
Borough Gardens (720)	16.4	17.4	16.4	11.7	7.7	8.2	8.8	10.2		12.8	15.7	16.3	12.9	13.0



## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2013

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	38.5	39.2	47.5	32.1	36.0	30.9	37.6	28.2	36.4	27.2	38.8	32.7	35.4	35.8
High West Street 1 (711)	48.6	44.6	44.4	29.2	35.1	36.2	41.5	40.6	40.2	35.9	44.5	35.8	39.7	<b>40.1</b>
Trinity Street (712)	43.3	33.4	36.3	23.6		26.9	29.7	29.1	29.7	31.9		35.8	32.0	32.3
High East Street 2 (713)	37.6	29.6	35.6		12.1	24.6	32.8	38.4	37.2	33.9	32.7	41.0	32.3	32.6
High East Street 1 (714)	44.7	35.3	44.1	31.1	11.7	32.5		41.5		42.8	35.7	52.0	37.1	37.5
Great Western Road (733)	33.2	35.5	36.0	21.6	36.0	30.2	28.4	27.9	30.5	31.4	45.3	23.5	31.6	31.9
Maumbury Road (716)		29.6	35.2	5.0	24.4	26.1	32.2	29.7	28.2	31.9	31.6	34.6	28.0	28.3
The Grove (715)	29.7	35.8	30.8	26.9	38.7	36.3	41.2	37.6	37.5	39.4	37.3	32.5	35.3	35.6
Church Street (718)	28.7	28.6	31.6	14.6	9.9	21.8	20.6	19.6	23.4	18.4	26.8	20.3	22.0	22.2
Bridport Road (719)	29.1	35.0	31.2	19.6	19.1		24.2	20.5	27.8	23.8	33.3	24.7	26.2	26.5
Borough Gardens (720)	19.1	17.9	17.4	11.2	7.8	10.2	9.4	9.5	12.9	11.3	15.2	14.6	13.0	13.2

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2014

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	29.0	25.3	30.0	33.9	29.1	31.4			39.7	29.5	41.0	27.2	31.6	31.0
High West Street 1 (711)	35.8	34.5	41.3	45.2	36.5	35.1	46.7	34.8	45.5	33.4	39.9	39.1	39.0	38.2
Trinity Street (712)	35.8	29.4	30.3	30.8	27.9	26.6	29.6	26.8	34.8	28.3	35.4	32.0	30.6	30.0
High East Street 2 (713)	39.6	33.9	33.8	34.9	32.6	31.4	28.5	34.3	37.9	38.8	36.7	34.3	34.7	34.0
High East Street 1 (714)	46.8	47.3	48.4	42.2	39.3		79.2	40.8	45.1	49.0	45.4	40.9	<b>47.7</b>	<b>46.7</b>
Great Western Road (733)	31.2	28.7	26.4	30.0	25.2	27.6	26.9			24.2	44.8	29.5	29.4	28.9
Maumbury Road (716)	35.2	28.2	29.5	34.6	27.6	25.4	30.2		31.5	30.5		32.2	30.5	29.9
The Grove (715)	33.6	27.9	34.7	38.1	38.9	38.8	46.8	40.2	41.3	39.5	39.8	37.1	38.1	37.3
Church Street (718)	22.6	17.6	21.6		34.7	18.4	21.1	15.7	24.8	16.4	26.3	19.9	21.7	21.3
Bridport Road (719)	27.0	22.9	28.9	25.7	20.9	25.4	22.4	18.7	32.8	20.6	35.3	23.5	25.3	24.8
Borough Gardens (720)	16.4	12.9	13.1	14.4	8.0	8.5	7.3	8.4	12.8	9.9	18.7		11.8	11.6

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2015

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	39.5	31.6	32.9	34.6	26.7	27.7	28.2	22.0	34.7	38.3	24.2	18.2	29.9	28.7
High West Street 1 (711)	43.4	39.7	40.6	38.5	36.4	36.4	36.9	28.8	27.5	33.6	31.9		35.8	34.4
Trinity Street (712)	35.5	31.2	33.2	28.8	24.4	25.3	26.8	33.0	45.6	46.4	33.2	25.9	32.4	31.1
High East Street 2 (713)	36.7	30.7	35.1	30.7	31.8	28.3	31.3	45.9	32.4	32.0	34.3	31.0	33.3	32.0
High East Street 1 (714)	36.0	35.7	37.6	40.5	42.0	37.4	49.2	38.5	36.8	36.0	46.1	44.6	<b>40.0</b>	38.4
Great Western Road (733)	36.9	30.2	27.3	22.8	22.9	24.0	23.0	33.4	36.2	45.9	24.5	22.9	29.2	28.0
Maumbury Road (716)	34.9	31.1	29.2	29.2			27.3		25.2	33.7		22.6	29.1	28.0
The Grove (715)	40.0	35.0	33.6	31.0	37.8	39.1	42.8	32.2	43.8	39.0	34.5	25.4	36.2	34.7
Church Street (718)	23.5	24.8	18.3	21.2	15.1	16.3	15.2	21.3	22.3	26.9	16.8	13.1	19.6	18.8
Bridport Road (719)	29.7	25.7	24.6	24.2	19.5	18.4	16.8	24.8	28.1	31.1	22.3	15.3	23.4	22.4
Borough Gardens (720)	16.1	13.1	11.4	10.1	8.2	7.4	7.9	9.9	10.6	14.0	23.1	9.9	11.8	11.3

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2016

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	28.7	29.4	29.5	27.8	27.8	30.3	21.9	27.3	27.2	38.7	37.7	39.1	30.4	30.7
High West Street 1 (711)	35.8	34.0	33.6	27.8	37.1	30.8	27.7	30.4	26.4		45.9	43.5	33.9	34.2
Trinity Street (712)	30.8	29.1	32.2	24.2	27.4	27.2	23.2	25.0	28.2	30.3	33.9	36.8	29.0	29.3
High East Street 2 (713)	39.2	30.0	30.7	28.0	31.3	32.1	28.5	32.1	35.4	32.5	35.3	43.4	33.2	33.5
High East Street 1 (714)	43.6	34.4	31.8	39.1	38.0	38.5	37.5	43.0	34.9	34.0	38.7	36.8	37.5	37.9
Great Western Road (733)	29.1	27.9	30.7	23.5	28.0	28.5	18.3	21.7	31.4	29.4	32.4	34.4	27.9	28.2
Maumbury Road (716)	29.5	29.5		22.4	30.0		21.8	23.6	31.0	30.2	32.8	35.9	28.7	29.0
The Grove (715)	34.9	28.8	28.9	27.9	31.6	35.3	32.9	36.0	39.1	33.7	35.3	37.8	33.5	33.9
Church Street (718)	21.1	20.6	21.7	17.3	19.4	19.6	12.2	15.4	14.7	24.2	26.4	30.5	20.3	20.5
Bridport Road (719)	23.7	25.4	28.9	20.3		21.4	15.8	18.3	25.3	33.3	31.9	34.5	25.3	25.6
Borough Gardens (720)	13.3	13.0	10.9	8.6	9.8	8.2	7.6	8.0	11.3	13.0		20.1	11.3	11.4

## Detailed Monitoring Results for Dorchester from our Nitrogen Dioxide Diffusion Tube Survey - 2017

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40\mu\text{g}/\text{m}^3$

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

See bias adjusted annual averages for final accurate results

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Average	Bias adjusted Annual Average
High West Street 2 (721)	50.3	35.1	29.8	32.7	28.0	26.6	25.2	29.4	24.5	33.3	38.1	29.2		
High West Street 1 (711)		39.0	41.6	46.8	35.4	37.1	30.8	37.9	43.3	34.6	37.2	36.2		
Trinity Street (712)	37.2	33.9	34.5	33.7	22.8	29.9	24.8	27.0	47.6		34.0	31.1		
High East Street 2 (713)	44.8	31.4	37.8	30.7	31.1	35.4	29.8	32.8	34.4	32.0	32.8	32.1		
High East Street 1 (714)	48.9	47.9	44.0	30.9	37.9	49.9	40.0	43.4	12.5	42.5	32.8	42.6		
Great Western Road (733)	34.8	23.4		23.0	21.2	20.5	19.6	20.6	32.5	26.5	31.9	28.2		
Maumbury Road (716)	36.6	27.5	27.6	26.2	23.3		25.2	30.4			36.6	32.0		
The Grove (715)	35.6	37.8	29.1	33.9	31.3	35.7	32.9	33.6		36.7	40.1	30.6		
Church Street (718)	32.0	20.6	20.1	21.5	17.9	16.8	15.2	17.9	27.6	18.5	25.0	20.5		
Bridport Road (719)	41.9	23.3	25.1	26.2	23.3	21.4	18.4	19.8	23.2	22.2	25.4	23.4		
Borough Gardens (720)	19.1	15.0	11.6	8.4		13.2	6.5	8.0	27.6	32.1		13.6		
Great Western / Victoria Road (740)									19.4		33.6	31.5		
Tom Browns (741)									17.3		45.1	36.4		
Reloved (742)								22.76			30.33	30.91		

West Dorset District Council identified anomalies with the results from September 2017's diffusion tube monitoring. The Laboratory results suggested that there had been occasions where tubes had been transposed.

The laboratory were contacted and the matter investigated by both the analysts and the council. From this, it is in the opinion of WDDC that there has been an error with deployment or labelling of the tubes prior to deployment and the council does not have confidence in using the September 2017 data for the 2017 annual mean calculations for nitrogen dioxide. The annual mean for each location will therefore be annualised as per Defra's Guidance within Local Air Quality Management Technical Guidance (TG16).

Because of this significant error, the Quality Assurance and Quality Control Procedures have been reviewed (last undertaken in 2014). A new draft procedure (in line with Defra Guidance) is being trialled for the deployment of the diffusion tubes. Once trialled, this will then be put into place and recorded within the relevant Annual Status Report (QA/QC Section) for further transparency.

A transcript of the correspondence between the WDDC Officer and the Laboratory will be provided to Defra in the 2018 ASR, which will be submitted to Defra in 2018.





## Summary of Dorchester's Monitoring Results from our Nitrogen Dioxide Diffusion Tube Survey

**Note:**

Results are given in  $\mu\text{g}/\text{m}^3$  and the annual objective concentration to be met for nitrogen dioxide is  $40 \mu\text{g}/\text{m}^3$

All results from 2002 onwards have been properly bias corrected

Diffusion tubes have been sited at worst case locations (roadside/kerbside) or at facades of houses facing a road to check whether the objective is being exceeded where people could be exposed over a year

Unfortunately the exact location of many of sites before 2005 is not known

Site	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
High West St 2 (721)															32.8	34.7	30.8	31.0	35.8	31	28.7	30.7
High West St 1 (711)	<b>40.8</b>	37.1	36.0	<b>40.9</b>	<b>41.9</b>	<b>40.4</b>		<b>42.0</b>		<b>40.1</b>	37.5	<b>41.1</b>	<b>41.9</b>	<b>44.6</b>	<b>41.8</b>	38.7	38.4	40.1	38.2	34.4	34.2	
Tesco Site (712)			23.4	28.4	27.4		28.8	30.7	23.2	27.7	26.9	28.9	26.8									
Trinity Street (712)															32.9	31.4	30.9	32.1	32.3	30	31.1	29.3
High East St 2 (713)												<b>42.9</b>	<b>38.2</b>	39.6	34.1	32.9	34.4	32.6	34	32.0	33.5	
High East Street 1 (714)						34.9	34.5	35.2	33.0	37.7	43.5	39.2	<b>43.0</b>	<b>46.2</b>	<b>40.6</b>	<b>42.1</b>	42.3	37.5	<b>46.7</b>	38.4	37.9	
High East Street 1 (731)															<b>44.9</b>	<b>41.6</b>						
High East Street 1 (732)															<b>43.2</b>	<b>40.5</b>						
White Hart (733)																21.7						
Great Western Road (733)																		31.9	28.9	28.0	28.2	
Monkey's Jump Roundabout			24.3	29.8	32.5	34.9	27.1	32.3	28.1	29.4	30.2											
Maumbury Road (716)															33.4	32.7	30.7	28.3	29.9	28.0	29.0	
The Grove (715)															38.3	32.9	36.1	35.6	37.3	34.7	33.9	
Church Street (718)															25.9	21.2	22.4	22.2	21.3	18.8	20.5	
Bridport Road (719)															28.2	26.0	22.7	26.5	24.8	22.4	25.6	
Borough Gardens (720)															16.2	12.6	13	13.2	11.6	11.3	11.4	



## Trends in Annual Mean Nitrogen Dioxide Concentrations in Dorchester

