

Church Street Trial Closure - Air Quality Monitoring Note Feb 2017

1. Enhanced air quality monitoring was recommenced at Twickenham Road from end of January 2016 to end of February 2017, in order to assess the impact of Church Street closure.
2. Data between February and November 2016 (10 months) is now available and is provided in the table below. December 2016 – February 2017 data will be available in March 2017.
3. The data for 2016 have not been bias-adjusted or seasonally adjusted however given that bias-adjustment factors in previous years were near to 1, this does suggest a reasonable level of confidence that concentrations have decreased since 2014.
4. There have been decreases in 10-month mean concentrations at all sites in 2016 relative to the annual mean concentrations in previous years, particularly 2011 and 2012. Caution must still be taken interpreting the 2016 results as they have not been bias-adjusted or annualised. It should also be noted that there was a mean reduction in NO₂ concentration levels of 6.3% across the borough in 2016.

Table 1: Air Quality Data Feb 2016 - November 2016

Ref	Location	Site Type	Annual Mean NO ₂ Concentration (µg/m ³)					*10 -month mean	
			2011*	2012	2013	2014	2016*	2016 comparison to 2014	
			Bias-Adjusted (0.95)	Bias-Adjusted (1.02)	Bias-Adjusted (1.01)	Bias-Adjusted (1.01)	Not Bias-Adjusted		
1	Twickenham Road / Woodstock Avenue	Roadside	50.8	50.3	48.4	48.6	45.8	-5.8%	
2	Adjacent to Van Gogh House, Twickenham Road	Roadside	<u>61.5</u>	59.5	56.5	58.8	50.2	-14.6%	
3	South of Junction between South Street and Twickenham Road	Roadside	<u>60.5</u>	<u>62.1</u>	<u>63.3</u>	53.8	44.8	<u>-16.7%</u>	
4	South Street and Twickenham Road (Memorial Square)	Roadside	40.2	44.3	39.8	37.6	33.9	-9.8%	
5	Lamp post on north side of junction between North Street & Twickenham Road	Roadside	48.8	41.7	39.3	40.3	35.9	-10.9%	
6	St. John's Road (offset 10 15 yards from Twickenham Road)	Roadside	45.6	47.4	46.8	46.5	42.9	-7.7%	
7	Opposite side of Twickenham Road to location 3	Kerbside	57.2	55.1	58.3	<u>63.1</u>	54.6	-13.5%	
8	A4/Great West Road – Brentford Air Quality Monitoring Station (HS5), Triplicate	Roadside	<u>60.8</u>	<u>62.4</u>	59.2	57	56.5	-0.9%	
9	318 Twickenham Road	Kerbside	56.3	56.9	55.7	52	46.6	-10.4%	
All Sites			53.5	53.3	51.9	50.9	45.7	-10.2%	