

Emissions assessment of proposed eastern Bath park and ride

Using the latest version of the Government's industry standard 'Emission Factor Toolkit' (v6.0.2) 2,000 vehicles travelling between Batheaston bypass (level with Mill Lane), Charlotte Street Car Park and return – a total of 8.4 kilometres:

Pollutant	Annual emissions of cars (based on 2,000 cars over 8.4 kilometres per day)
NO _x (kg/yr)	2,602
PM _{2.5} (kg/yr)	124
PM ₁₀ (kg/yr)	206
CO ₂ (tonnes/yr)	1,162
HC (kg/yr)	233

Assumptions:

- 2015 emission factors
- Cars only
- Over 24 hours, 365 days per year
- No bus emissions taken into account (possible as the council are bidding to government for funding for an electric bus for this route)
- No account of other possible traffic flow changes
- 22 kph speed based on a bi-directional 2008 average speed survey between Queen's Square and Gloucester Road

NB//

NO_x = nitrogen oxides

PM_{2.5} = particulate matter not exceeding 2.5 micrometres

PM₁₀ = particulate matter not exceeding 10 micrometres

CO₂ = carbon dioxide

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