

## **Appendix C1 – Environmental Implications extract from CIF Bid**

### **What are the likely environmental implications of the project?**

The multi-functional nature of the corridor has resulted in a high demand for travel, particularly by private car. This results in significant traffic volumes, which are consistently high throughout the day and at weekends. The road is often congested and has slow average speeds, in the College St area with implications for air quality.

The scheme improves conditions for pedestrians, cyclists and enhances the overall public realm, by improving permeability and addressing severance. This will help to encourage local trips to be made on foot or by bike, thereby reducing the number of car trips on the corridor and lowering harmful carbon emissions.

#### **Air Quality**

The Transport Economic Efficiency Table presented in Appendix D demonstrate a saving of up to £760,000 through delivery of the scheme. This is based upon savings in terms of Vehicle Operating Costs reductions and journey time savings. This is despite significant increases in forecast demand on the corridor.

An Appraisal Summary Table was undertaken to support to 2013 A444 Corridor Scheme Business Case. This highlights that there are no negative air quality or noise implications.

In addition to the traditional measures of flow and delay, Air Quality impacts have been reported, on an annual basis. The values for the Air Quality have been calculated using the Paramics AIRE ancillary add-on. Further details of this process are included in Appendix C. Outputs from the S-Paramics highway modelling undertaken identify relatively minor changes to the annual air quality impacts as identified below:

<b>Annual Air Quality Impacts</b>					
	2015/16	2017/18		2021/2022	
Measure	Base	Reference	Scheme	Reference	Scheme
Average Annual Carbon (Kg)	4513029	4679032	4700919	4703180	4730700
Average Annual Nitrogen (Kg)	26390	25184	25459	24704	25010
Average Annual Particulate (Kg)	782	727	730	708	715

#### **Urban design and environmental improvements**

The corridor is the main gateway to Nuneaton from the south (M6/Coventry) and therefore needs to provide a positive impression for visitors to the town. Urban design and environmental

improvements (including the removal of undesirable and inadequate pedestrian footbridge) will also help improve the general travel experience for residents and people accessing the town centre, schools, George Eliot Hospital, Bermuda Station and businesses on the corridor.