

5th April 2018

Our reference: 442984

Client: St Edward

Green Park Village Phase 2B – Air Quality Statement

1. Introduction

RSK Environment Ltd (RSK) was commissioned to prepare an air quality statement regarding Phase 2B of the Green Park Village (GPV) development. RSK previously prepared a detailed air quality assessment for GPV Phase 6A – RSK 442611-01(02) (22/05/2017). This statement is intended to be read as an addendum to the GPV Phase 6A assessment. Revised traffic data were not available; therefore, this statement addresses the air quality impact of Phase 6A and other committed/consented development at Phase 2B.

2. Scope

In order to assess the air quality impact of Phase 6A and other committed/consented development (it is understood that the traffic data used in the Phase 6A assessment includes other committed/consented developments) at Phase 2B additional receptors were added to the previous model as detailed in Table 2.1 and in Figure 1 of Appendix A. The baseline air quality, assessment methodology and traffic data are unchanged from the Phase 6A assessment and are described in Section 4, Section 5 and Appendix C, respectively of the Phase 6A assessment.

Table 2.1: Receptors Included in the Dispersion Modelling Assessment

Receptor ID	Receptor Location	Grid reference		Height (m)
		X	Y	
2b_1	Reception classroom	469973	170090	1
2b_2	Reception classroom	469953	170092	1
2b_3	Nursery	469931	170102	1
2b_4	Playing field	470006	170121	1

3. Results

Construction Phase

The recommended construction phase mitigation in Appendix F of the Phase 6A assessment should also be applied to Phase 2B.

Operational Phase

Table 3.1 shows the predicted annual mean NO₂, PM₁₀ and PM_{2.5} concentrations under the 'S3 With Phase 6A Development 2022' scenario at the assessed receptor locations. NO₂, PM₁₀ and PM_{2.5} concentrations are not predicted to exceed the annual mean objectives at any of the proposed receptors.

Table 3.1: Predicted Long-Term NO₂, PM₁₀ and PM_{2.5} Concentrations Under the 'S3 With Phase 6A Development 2022' Scenario

ID	Annual mean concentration (µg/m ³)		
	NO ₂	PM ₁₀	PM _{2.5}
2b_1	22.4	17.0	11.6
2b_2	22.7	17.0	11.6
2b_3	22.7	17.0	11.6
2b_4	21.3	16.8	11.5
Air Quality Objective	40	40	25

LAQM TG.16 indicates that the hourly mean NO₂ AQS would be unlikely to be exceeded if annual mean NO₂ concentrations do not exceed 60µg/m³. Therefore, it is not anticipated that the hourly mean NO₂ objective would be exceeded at the site.

As best practice, it is recommended that transport related mitigation measures should be included to minimise the impact of the development on the surrounding road network and hence air quality. These measures could include:

- travel plans;
- incentives for increased public transport use; and
- provision for alternative fuels, such as electric vehicle charge points.

RSK Environment Limited

Prepared by:



Dr Christina Higgins
Senior Consultant

Reviewed by:



William Franklin
Principal Consultant

Appendix A

Figure 1: Receptors included in dispersion model

