



Title: Air Quality Summary

Date: August 2020

## 1.0 Introduction

- 1.1 Jubb Consulting Engineers (Jubb) have been appointed to coordinate Air Quality matters for land at Roxton by Rainier Developments Ltd.
- 1.2 Air Pollution Services have undertaken an Air Quality Assessment of the potential development and this note provides a summary of the findings of that assessment.

## 2.0 Summary of Air Quality Assessment findings

- 2.1 The development involves more than 10 residential units, thus based on the EPUK and IAQM guidance there is a need to consider the impacts on local air quality. Consideration has been given to the impacts of pollutant emissions resulting from changes in local road traffic due to the development.
- 2.2 Concentrations of NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> have been predicted for the future year of 2021 at 13 receptors that represent existing locations of sensitive exposure in the local area, including the Sandy AQMA.
- 2.3 All values are well below the AQOs, except for NO<sub>2</sub> concentrations at receptor E11 in the Sandy AQMA which exceeds the annual mean AQO with and without the proposed development. The development does not cause any new exceedences of the AQO. The impact of the development-related traffic will be negligible at all receptor locations, including within the AQMA.
- 2.4 Concentrations of NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> have been predicted for the future year of 2021 at locations at the boundaries of the proposed development nearest to local roads.
- 2.5 The predicted concentrations for each receptor are well below the AQOs. Air quality for future residents of the proposed development will be acceptable.
- 2.6 The operational air quality effects without mitigation are judged to be "not significant". This professional judgement is made in accordance with standard methodologies and assessment criteria.
- 2.7 The judgement that the operational air quality effects will be "not significant" without mitigation takes account of the assessment that:
  - the development will not lead to any exceedences of the AQOs and the impacts of the development on sensitive receptors in the local area have all been described as negligible; and
  - predicted concentrations of annual mean NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> are all well below the AQOs at the worst-case locations within the development site and thus air quality for the future residents of the proposed development will be acceptable.