

Before the Board of Inquiry
Waterview Connection Project

in the matter of: the Resource Management Act 1991

and

in the matter of: a Board of Inquiry appointed under s 149J of the Resource Management Act 1991 to decide notices of requirement and resource consent applications by the NZ Transport Agency for the Waterview Connection Project

Expert Caucusing Joint Report to the Board of Inquiry – Topic Air Quality

Dated: 28 February 2011

EXPERT CAUCUSING JOINT REPORT TO THE BOARD OF INQUIRY

INTRODUCTION

- 1 This joint signed report is written in response to a request from the Board Chairman in opening session on 28 February 2011. It has been requested in light of additional supplementary evidence presented since the last caucusing report, and in light of a second S42A report requested by the Board on 21 February 2011, and received on 25 February. The instructions are that this caucusing report should:
 1. Be succinct.
 2. Attempt to get clear agreement on any remaining technical issues.
 3. Describe issues that are not resolved, and why.
- 2 This report relates to the caucusing topic of **Air Quality**.
- 3 The caucusing meeting was held on **28 February 2011**.
- 4 Attendees at the meeting were:

1. Gavin Fisher (Air Quality, for the NZTA)
2. Janet Petersen (Air Quality, Auckland Council & Transport)
3. Jayne Metcalfe and Rachael Nicoll (Air Quality, appointed by the Board of Inquiry, and authors of the Board s42a report).

AREAS THAT HAVE BEEN RESOLVED

- 5 The parties have agreed that all technical air quality matters have been resolved and are no longer disputed. To summarise:

1. Monitoring

- (a) Separation Distances. – Ambient monitoring will be undertaken at an agreed location which is representative of the minimum separation distance between the edge of SH20 and residential properties.
- (b) There will be 3 monitoring sites. One ambient site as per (a) above, one ambient site near the existing Cowley St site and one tunnel portal site.
- (c) A Peer Review Panel will oversee all monitoring including traffic monitoring, ambient monitoring and portal emission monitoring. The Peer Review Panel will review all monitoring and recommend whether monitoring should cease.
- (d) Conditions relating to the monitoring and Peer Review Panel (Appended to the report) have been agreed by all the parties as suitable to resolve all technical monitoring and portal emission issues.

AREAS THAT ARE NOT RESOLVED

- 6 The parties have not agreed on the following policy matters:

1. Construction Effects

- (a) Conditions relating to construction effects. The positions are as follows:
 - (i) Janet Petersen (Auckland Council) and Jayne Metcalfe and Rachael Nicoll (Emission Impossible) consider that consent conditions relating to odour, dust and visible emissions (as outlined in para. 28 of the s42A Update report 25 February 2011) should be included.
 - (ii) Gavin Fisher (NZTA) has no technical disagreement with these requirements but does

not consider these conditions are necessary to prevent adverse effects.

2. Offsets

- (a) The parties agreed that offsets are a good air quality management tool, however the parties do not agree whether they should be required for this project.

Date: 28 February 2011



Gavin Fisher (Air Quality)



Janet Petersen (Air Quality)



Jayne Metcalfe (Air Quality)



Rachael Nicoll (Air Quality)

APPENDIX 1

Amended Conditions

- 1 Add a new condition OA.8 to incorporate a Peer Review Panel

A Peer Review Panel shall be appointed by NZTA with the agreement of Auckland Council for the purpose of reviewing the ambient air quality monitoring programme and results. The Peer Review Panel shall consist of two independent experts in air quality with experience in ambient air quality monitoring and emissions from motor vehicles. The Peer Review Panel shall review all ambient monitoring, relevant traffic data and tunnel emissions and provide a summary report including any interpretation and recommendations to NZTA, Auckland Council and the Public Information Liaison Group within 6 months of the tunnels becoming operational and annually thereafter.

- 2 Amend Condition OA.2

Prior to the tunnels becoming operational, ~~the Requiring Authority~~ NZTA shall establish two ambient air quality monitoring stations and one portal air quality monitoring station. The location and type of these monitoring stations shall be selected by NZTA in consultation determined and agreed with the Auckland Council and Peer Review Panel (Condition OA.8). Ambient air quality shall be monitored continuously in real time, to monitor potential effects associated with the operation of the ventilation system from the tunnels. ~~Ambient Mm~~ Monitoring shall include fine particulates (PM₁₀ and PM_{2.5}) and nitrogen dioxide. Portal monitoring shall include nitrogen dioxide. Results shall be compared with the relevant National Standards for air quality and Auckland Regional Air Quality Targets. ~~Monitoring shall be undertaken for at least 24 months once the tunnels are operational unless it has been agreed with the Auckland Council that monitoring is no longer required. Monitoring shall be undertaken at each site until the Peer Review Panel recommends that monitoring is no longer necessary.~~ The locations, operation and maintenance schedules of the continuous monitors shall, as far as practicable, comply with the requirements of AS/NZ 3580.1.1:2007 Method for Sampling and Analysis of Ambient Air – Guide to Siting Air Monitoring Equipment, and with methods specified in the National Environmental Standards.

- 3 Agreed Condition OA.7

The tunnel ventilation system shall be designed and operated to ensure that any air emitted from the tunnel portals does not cause the concentration of nitrogen dioxide (NO₂) in ambient air to exceed 200 micrograms per cubic metre, expressed as a rolling 1 hour average, at any point beyond the designation boundary that borders an air pollution sensitive land use.