

5 September 2014

Director - Infrastructure Projects
 Department of Planning and Environment
 Number: SSI 13_6136
 Major Projects Assessment
 GPO Box 39
 SYDNEY NSW 2001

NorthConnex Application Number: SSI 13_6136

Please find below my submission in response to the exhibition of the EIS for NorthConnex.

Firstly I would like to state I **object** to the project as described in the EIS.

I am a resident from Beverly Hills around the M5 tunnel and are aware of the issues that have plagued this tunnel due to poor planning decisions. I have a high level of concern regarding the NorthConnex tunnel project with the following issues and request that these be considered by NorthConnex and the Department of Planning. In regards to the NorthConnex tunnel, I am concerned about:

1. Placement of the northern ventilation stack in the center of a densely populated residential area in Wahroonga, where 9,300 school children will be exposed, as well as multiple aged care facilities, hospitals, businesses and homes.
2. The placement of the northern ventilation stack in a valley in Wahroonga where there are often low wind speeds, which will result in poor dispersion and exposure to community to high levels of tunnel emission.
3. I am highly concerned about the multiple large scale research studies that suggest the impacts of air pollutants on health are serious. These include increased death from heart disease, increased risks of lung cancer, stroke, poor lung growth in children, increased asthma, and recent research suggesting low birth weight for pregnant women, increased autism, and congenital heart defects. These studies confirm air pollutants have prothrombotic and inflammatory effects on humans which cause the above health problems.
4. I am concerned about the air quality within the tunnel which is shown in the EIS to have exceedances above standards for pollutants such as NO₂, and haze from particulate matter at the ends of the tunnel.
5. I am concerned about the multiple flaws in the air quality modelling of the northern stack in the EIS. These include:
 - a) extrapolation of meteorological data from other weather stations which do not reflect the local meteorology, local topography, and the valley location.
 - b) The use of a coarse topographical model
 - c) The failure to consider polluted intake air from the Pennant Hills/M2 interchange as part of the project contribution to air quality at Wahroonga

NorthConnex EIS Submission

- d) the background air quality being based on air quality at Lindfield and Prospect and the lack of any actual data on PM_{2.5}
- 6. I am concerned that a full and transparent options assessment process was not undertaken to assess alternative designs for the project. Unlike other tunnel projects in Sydney there are alternatives for locating the stack and portals in non-residential areas.
- 7. I am concerned that the justification for not providing filtration for the stacks is cursory and unconvincing.

To address my concerns I request that the following actions are undertaken:

- 1. The air quality and human health impact assessment need to be revised to address the issues raised above.
- 2. An independent options assessment process should be undertaken to assess alternative locations for the ventilation stack and portals.
- 3. To undertake a Life Cycle Analysis and assessment for the provision of filtration
- 4. A long term health study on children and residents in areas impacted by stack discharges be included as part of the conditions of approval.
- 5. A comprehensive air quality monitoring program is developed and implemented.
- 6. An independent review of the ventilation system is undertaken to ensure that NorthConnex's claim of no portal emissions is justified.
- 7. Portal emissions from NorthConnex in the future are banned.
- 8. The Submissions Report/Preferred Project be exhibited to allow the community to respond to the revised information contained in the report.
- 9. The Department does not approve the project in its current form as it clearly does not meet the principles of Ecologically Sustainable Development as required by the Environmental Planning and Assessment Act.

I think that public health is in priority regardless cost of health and that there is no safe limits of exposure to air pollution substances.

Yours faithfully,



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