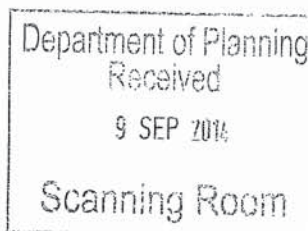


7 September 2014



PCU55608

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

My name is Scott Brading ,I am a local resident of Wahroonga living 800 metres from the proposed northern ventilation stack. I have 3 teenage children attending local schools and my concerns are to provide a safe environment for not only my children but for future generations living in the Wahroonga area.

The lack of filtration of the tunnel pollution as per medical evidence does not satisfy the duty of care for the community in which the government is elected to provide. The costs of developing a worlds best practice design and filtration system will be dwarfed by the future ongoing medical costs resulting from the pollution produced from this design in its current state. This future cost invalidates the developers TOO expensive or cost/reward argument as stated by Northconnex.

It is imperative the design concerns are **independently** addressed and safer methods introduced prior to approval and construction to achieve the safest environmental /health outcome possible.

Duncan Gay to quote stated "we have selected the dearest,best,most viable option in relation to the Northconnex proposal" on7.30 report on ABC . I believe this is actually UNTRUE ?. I would appreciate confirmation of this statement by making other submissions public..

There has been no transparency in relation to this process and due to the size /cost of this project a more transparent process which allows a wider range of alternatives Must be considered and made open to the public who will fund this project via tolls.

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

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

I/We have a high level of concern regarding 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 centre 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.

NorthConnex EIS Submission

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.
4. I am concerned about the project including future provisions for portal emissions in densely populated areas, which will result in emissions remaining at ground level, and hence exposing the local population to pollutants. I am also concerned that NorthConnex's claim that there will no portal emissions from current proposal cannot be verified. The claim of reducing pollutants by 38% cannot be justified
5. I am concerned about the large amount of diesel emissions which will be emitted from the NorthConnex tunnel, as it is being designed for heavy freight to bypass Pennant Hills Rd. Diesel emissions have been classified as carcinogenic by the World Health Organisation, and also contain a larger number of fine particles which penetrate deep into lung tissue and remain there causing inflammation.
6. I am concerned about the air quality within the tunnel which is shown in the EIS to have exceedences above standards for pollutants such as NO₂, and haze from particulate matter at the ends of the tunnel.
7. 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. The study Must be based on LOCAL data
 - 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
 - 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}
8. 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.
9. I am concerned that the justification for not providing filtration for the stacks is cursory and unconvincing.

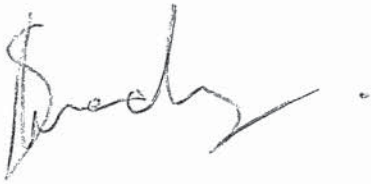
To address my concerns I request that the following actions are undertaken:

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.

NorthConnex EIS Submission

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.

Scott Brading
1 Bareena Ave
Wahroonga NSW 2076

A handwritten signature in black ink, appearing to read 'Scott Brading', with a long horizontal stroke extending to the right.