

# **OBJECTION SUBMISSION**

*Sydney Metro City & Southwest*

*Chatswood to Sydenham Section*

*State Significant Infrastructure Application SSI 15\_7400*

**Application Name:** Sydney Metro City & Southwest Chatswood to Sydenham Section

**Application Number:** SSI 15\_7400

## **Objection Submission Details**

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## **Summary of Objection**

I object to Sydney Metro Project specifically in respect of construction of the Chatswood Metro tunnel dive site and heavy rail works immediately adjacent to our home at 1-3 Gordon Avenue, due to the lengthy excessive noise and vibration during construction and also excessive noise and vibration at our home during operation of the rail networks on completion.

The EIS plans for dealing with construction noise have significant clauses which permit breaches without any penalty to the Contractor on the grounds of “unavoidable events or work” and “impractical to mitigate or avoid”. Our review of the complaints reports for the Norwest Metro project reveal this excuse is used in almost every instance of breach, and that the mitigations are trivial or too late.

Similarly, the entire operational noise performance and criteria is referenced to the “Rail Infrastructure Noise Guideline (EPA, 2013)” which is a VOLUNTARY GUIDELINE, not mandatory. It also contains multiple exclusions / excuses to exceed noise and vibration levels without action or penalty. This was quoted to us by the operators and project management after the Chatswood to Epping project which caused frequent and intolerable excessive operational noise and vibration at 1-3 Gordon Avenue.

## **Detailed Reasons for Objection**

- **Excessive Rail Operation Noise and Vibration – Existing**

- High levels of Train Noise of can be heard and vibration felt at 1-3 Gordon Avenue from the current railway, and is frequently intrusive and interrupts sleep of the residents. The noise is both direct and also regenerated ground borne noise.
- The northbound rail line was already moved 3m closer to the unit block during the Chatswood to Epping rail project. At various times since that work many complaints have been lodged, but with little or no useful action by the operators. It is only in the last twelve months that there has been some improvement in the noise and vibration, for reasons unknown, and unpredictably. We cannot rely on this improvement based upon bitter past experience.
- The existing high levels also create an excuse for the operators to base the new operational noise limits higher than otherwise defined as acceptable, based upon on the already intolerable high levels being pre-existing.

- **Excessive Rail Operation Noise and Vibration – Post Completion**

- It is proposed to move the northbound heavy rail line closer to 1-3 Gordon Avenue by another three meters, and elevate it by 2m on a bridge structure which will make the noise at our units much worse. This is on top of the existing 3m closer relocation carried out under the Chatswood to Epping project in 2006.
- 1-3 Gordon Avenue is specifically mentioned in the EIS as an address that will remain affected excessively by operational noise after completion of the work. It further states that it is impractical to create an adequate noise barrier.
- The is an inadequate and incomplete reference to “at site mitigation”, which implies someone may attempt to make some token sound proofing at the building, but not until after operation commences, and on an “ad hoc” basis. It is unclear who will be responsible, and police the process. As stated earlier, the EPA Railway Noise document is only a non-compulsory and unenforceable “guideline”. The operators may deem the situation is satisfactory or beyond their own definition of “reasonable” control.
  1. The very close proximity of the works, the ground structure and our building basement and stairwell arrangement will result in vibration being amplified within our premises to excessive levels.
  2. The realignment of the existing T1 northbound rail line to the temporary route requires heavy machinery and excavation work after hours with multiple rail corridor closure events that will cause severe disruption and noise fatigue effect to the life of all residents.
  3. T1 northbound track is closer to Gordon Avenue unit block increasing the noise and vibration impact.

4. New Metro tracks will carry more traffic than the existing T1 tracks did. This volume is in addition to the T1 track traffic which will remain.
5. The T1 northbound track is raised in height due to being routed over the dive structure. However, in addition to this the dive structure itself finishes at Nelson Street which requires the T1 northbound track to be supported by a concrete bridge structure. This structure will generate significantly more noise than a closed structure and will also allow rail noise from the Metro tracks to pass through to the Gordon Avenue unit block.
6. For upper level units, the elevated T1 northbound trains and additional Metro trains will be noisier.
7. Ground vibration is a major concern with the increased volume of rail traffic on the T1 plus Metro lines. This vibration can potentially be amplified through the basement area of 1-3 Gordon Avenue.

- **Excessive Construction Noise and Vibration at 1-3 Gordon Avenue**

- The extensive and heavy construction the works associated with the tunnel dive site and existing rail realignment will generate excessive noise, vibration and dust at 1-3 Gordon Avenue that cannot be mitigated adequately because the rail line is too close to the block, and the upper floor units immediately overlook the works and cannot be screened visually or acoustically;
  1. The very close proximity of the works, the ground structure and our building basement and stairwell arrangement will result in vibration being amplified within our premises to excessive levels.
  2. The realignment of the existing T1 northbound rail line to the temporary route requires heavy machinery and excavation work after hours with multiple rail corridor closure events that will cause severe disruption and noise fatigue effect to the life of all residents.
  3. The construction of the bridge to accommodate the new T1 northbound track over the new dive structure requires major rock excavation and piling works immediately adjacent to 1-3 Gordon Avenue, with probable excessive noise and even structural damage.
  4. Construction vehicles and material will continuously be moving in the track area adjacent to the 1-3 Gordon Avenue unit block. This construction traffic will occur when preparing the site for the new dive structure, bridge and track foundations for the new t1 northbound location.
  5. There is the potential for noise and vibration from existing rail traffic to increase due to the temporary nature of the relocated main northern line.
  6. While a noise barrier is planned for the Nelson St construction site, no such noise barrier is proposed between the Gordon Avenue unit block and the excavation area during the excavation work required

for the T1 northbound bridge, dive structure and tunnel. This noise barrier is required during the construction of the bridge over the dive structure for T1 northbound. In addition, a noise barrier is required during the building of new Metro tracks.

7. Potential 24x7 work during the construction phase of this project will severely adversely impact residence during and after work hours. There are significant after hours large earth works, demolition, piling and track work proposed in the proximity of 1-3 Gordon Avenue unit block.

- **Business Interruption Due to Construction and Operational Noise**

- Some residence of 1-3 Gordon Avenue operate home business or work night shift work, requiring sleep, during the hours of 7am – 8 pm, the project will result in having a disruptive and high impact noise level unacceptably high for a work or daytime sleep environment. They will be forced to relocate at great personal expense. The adverse effects on these residents must be mitigated for this imposition by the project, by temporary or permanent relocation. Loss of income and rent must also be compensated for.

- **Traffic Problems for residents of 1-3 Gordon Avenue**

- The loss of the Nelson Street direct access to Chatswood is a major transport problem for the residents of Gordon Avenue, and hundreds of all other residents between Albert Avenue and Nelson St. We currently have direct easy road access to our local Chatswood retail, business, schools and community without traffic lights, without having to further congest the Pacific Highway and Mowbray Road, or Orchard Road intersections.
- The Mowbray Road - southbound Pacific Highway intersection is already extremely congested at all times of the day, and particularly in morning and afternoon times. The location of the construction site entrances in Nelson Road and Mowbray Road mean that there will be continuous major truck “movements” through this intersection aggravating the situation to an unacceptable level. Trucks will invariably block this lane and make it nearly impossible for us to enter the Pacific Highway.
- Residents in Gordon Avenue will experience increased difficulty when joining onto Pacific Highway. Already there is major gridlock caused by cars blocking the exit from Gordon Avenue. Once truck start using the left lane to enter the Nelson Street site, causing increased congestion this problem will become much worse.
- On completion the traffic problems will remain with increased travel time and pollution.
- As a minimum mitigation we require that a DEDICATED LEFT TURN ONLY lane is established at the southbound Pacific Highway / Mowbray road intersection, without traffic light control and at the beginning of the project. There is plenty

of space on the southwest corner in the large construction site to allow this to be built immediately at the project start.

- We also require that the intersection of Gordon Avenue and Pacific Highway is line marked and signposted with “Do not Block this Intersection” and that this is policed.

- **Traffic Noise During Construction for Residents of 1-3 Gordon Avenue**

- Trucks will use exhaust brakes to slow down to enter the Nelson St Site entry, particularly at night from high speed. This noise will affect ALL the residents including 1-3 Gordon Avenue because we have line of sight and reflectance of the Payless Tyres building façade.
- A strict “no exhaust brakes” law, signage and enforcement is required, or alternatively ban construction traffic between 8pm and 7am.