

MONTHLY REPORT PARAMMATTa LIGHT RAIL (PLR): ACOUSTIC ADVISOR

For Period:	01 - 31 October 2021
Prepared By:	
Date of Issue:	3 November 2021
Reference:	5518_PRL-Monthly_AA_Report_October01to31_2021
Authorisation:	

PJT - Project Wide, P1 NP - Enabling Works, P2 HRW - Hawkesbury Road Widening, P3 SAM - Camellia, P4 INF - Infrastructure, P5 SOM - Supply Maintain Operate. RT - Alternate AA inspections

Acoustic Advisor Activity

- Review and comments provided for:
 - P5 SOM: ONVR Consultation Strategy (Rev C)
 - P4 INF: CEMP and Sub-Plans, Annual Review
 - P4 INF: PCPLR response and investigation of vibration complaint (504 Church Street)
 - P5 SOM: Testing and Commissioning Plan and Sub-Plans
 - PJT: CoA A37 Construction Compliance Report #5 (Feb-July 2021)
- Attendance at, or review of meeting minutes, from DPIE and TfNSW (General Meeting, Executive, Environmental Planning and Sustainability).
- Site Inspections completed by Alternate AA:
 - Fortnightly Inspection (#39) - 30th September 2021 - Area 2 and 3, including rail grinding activity (issued 1st Oct 2021)
 - Fortnightly Inspection (#40) - 7th October 2021 - Area 1 temporary bridge demolition
 - Fortnightly Inspection (#41) - 26th October 2021 - postponed to 3rd November due to inactivity
 - Site Inspection review (noise and vibration monitoring) to investigate complaint from 29 Galloway Street - 27th and 28th October 2021.
- Review of noise and vibration monitoring records and alerts and daily complaints register.

Noise and Vibration Matters Raised

- Rail Grinding activities commenced at various locations throughout the project, and monitoring investigations have been completed by the AA and contractors, identifying the duration and intensity of the noise are not significant compared to many other activities on the project.
 - Discussions took place with TfNSW and contractors as to the potential to mitigate the activity, however it was not reasonable or feasible to implement, including concerns of safety in locating work staff or screens in close proximity to the grinder.
- The EPA are undertaking a Noise Compliance Campaign, including review of noise impacts generated during 'out of hours work' (OOHW) from transport infrastructure construction projects - including PLR. The campaign will run from October to December 2021, and the AA will aid where possible or requested.

Noise and vibration complaints

- AA follow up regarding actions regarding specific complaints. All were identified as suitably addressed and/or resolved.
- P4 INF: further to raising discussion around recurrent vibration complaints from 504 Church Street, in late September, (vibration from vibratory rollers along Church Street) – TfNSW requested that investigation be undertaken regarding level of vibration, and what mitigation and considerations have been implemented to minimise the impacts to this location.
 - Review of CEMP/CNVMP/CNVIS and TfNSW guidelines concerning the size and separation distance of plant reviewed and identified as acceptable, pending site specific investigation.
 - AA advice was considered and adopted where reasonable and feasible.
 - PCPLR undertook targeted response and investigation which was reviewed by the AA and found to be acceptable.
- Complaint E1247 raised from 29 Galloway Street, pertaining to the end state design; regarding the noise and vibration generated by vehicles crossing the finished tracks at intersection of Galloway Street and O’Connell Street, North Parramatta.
 - AA investigating the noise and vibration generated by vehicle traffic crossing the tracks (attended measurements completed on 27 and 28 October 2021, however the analysis and report are currently pending issue).
- The relative number of noise and vibration complaints continue to reduce as HNIW and OOHV reduce from previous months.
- Often complaints logged in the system are related to works outside the scope of PLR works. Contractors have been quick to identify these situations and respond with clear communication to the complainant.

Inspections / Actions

- It was desired to attend and observe/measure the specific activities jetty demolition/decommissioning, which have been postponed until October, and commencement of Rail Grinding (Tamping) activities for review of requirement for additional mitigation if necessary - which were measured on 30 September 2021.
- Fortnightly Inspection (#39) – 30th September 2021 – Area 2 and 3, including rail grinding activity
 - Report and advice issued 1 October 2021, no queries or items for actions raised.
- Fortnightly Inspection (#40) – 7th October 2021 – Area 1 and 2
 - Area 1 – Cumberland, Bunya Building 51 and Road Bridge, Jetty Demolition noise
 - Vibration used to loosen the piles, main noise sources were generators near the river bank. No significant noise or vibration identified from the operation.
 - Area 1 – Cumberland, Building 68, Vacuum Truck noise
 - Opportunity for Improvement - The AA finds the exclusion of temporary barrier reasonable in this instance, however should complaints arise, noise blankets installed to the fencing in closer proximity to the affected facades may provide some benefit.
 - Area 2 – George Street, near Alfred Street, Rail Drilling
 - Drilling was occurring on the rail installation at this location without all blankets near the activity being in place. Noise levels were not measured but were observed to be moderate and unlikely to cause complaint. The Environmental Coordinator advised that all noise blankets would have been erected for pavement sawing but not for low intensity rail drilling.
 - Report and advice issued 8 October 2021, no items for action raised.
- Monitoring Inspection – 27th and 28th October 2021 – Response to complaint at 29 Galloway Street
 - Investigation of the noise and vibration generated by vehicle traffic crossing the tracks via attended

measurements.

- Report and advice pending.

Monitoring and Alerts

- HAC Monitoring – Cumberland Hospital, Westmead
 - Triggered alerts via SMS for elevated noise levels at various times (all standard construction hours).
 - No action required, significant noise level alarms unrelated to construction activity.

Non-compliance and incident details

- Nil related to AA activities/inspections

Ongoing and upcoming environmental risks (noise and vibration)

- As rail grinding commences through different areas, the new source of noise may generate new complaints. However;
 - The duration of the source will be limited,
 - The moving nature of the source should result in minimal measurable impacts,
 - initial observations and monitoring identify the activity is not dissimilar from vacuum trucks and concrete pour mechanical noise.
- Diligence in minimising potential impacts and perception recommended via notifications.
- Noise from vehicles crossing the new tracks, as per that identified at O'Connell Street, may be a noticeable change in characteristic of traffic noise at various locations on the project.
-

Recommendations / Advice (incl auditing)

- No additional

Outstanding Queries / Other Items

- Investigation into noise and vibration from O'Connell / Galloway Street intersection pending.