Noise Monitoring Data-Monthly Summary						
Month and Year:	Apr-21					
Project:	Central Station Main Works					
EPL Licence Number:	21148					
EPL Web link:	https://centralstationmetro.com/documents/					
Specific EPL Monitoring Condition:	M7.1- Noise Monitoring					
Monitoring Location:	**Number of Monitoring Events during the Month**	**Attended/Continuous Monitoring**	**Event Based Monitoring? (Y/N)**	**Measured Parameter: LAeq15mins (dB)**	**Predicted Parameter: LAeq15mins (dB)**	**Comment**
Chalmers St	12 day 1 evening 16 night	Continuous	Yes	Max night Works (OOHW) Noise recorded was 73.4dB, typically <70dB Max evening noise recorded was 71.9dB during breaking activity Max day noise recorded was 85dB during breaking activity	Predicted Parameter = 60 dB for works during night and evening OOHW on the suburban platforms throughout the month, 75dB predicted for WE42 (17/18 April 2021) works on Platform 18/19. 20-28 Chalmers St (Eastern Entrance) works predicted to be 81dB in standard construction hours during excavation and breaking activities.	Night and Evening OOH General surface (behind hoarding) and subsurface OOH work throughout the month consisted of excavation works associated with the Central Walk and platforms works. Other evening works included the tower crane installation at Eastern Entrance. Night time and evening OOH predictions validated. All at source noise mitigation and required additional mitigation measures were in place throughout the month of April. Day Noise data was reviewed to validate the predictions for rock breaking and associated activities at the Eastern Entrance. The noise levels were within the CNVIS predictions for the majority of the month, however exceeded at the real time noise logger (conservatively representative of the facade of the sensitive receivers) on 2 dates (8/4/21 and 29/4/21) during breaking activities and running and aircompressor simultaneously on the 8th, and breaking and drilling activities on the 19th for individual LAeq15min periods. This did not result in associated ground borne noise, or the exceedance of internal noise levels. Respite and duration limits observed. All feasible and reasonable noise mitigation measures were in place, without the potential for increasing the duration over several days. For this activity the timing of the works was selected to occur during standard construction hours and within the allowable period for high noise impact, and respite periods were observed. The plant is new, well maintained and serviced regularly.
Chalmers St	2	Attended	Yes	66.1dB on street level on Chalmers St.	Predicted Parameter = 60 dB for general works during evening and night OOHW on the suburban platforms throughout the month, 75dB predicted for WE42 (17/18 April 2021) works on Platform 18/19. 20-28 Chalmers St (Eastern Entrance) works predicted to be 81dB in standard construction hours during excavation and breaking activities.	Day Noise data was reviewed to validate the predictions for rock breaking at the Eastern Entrance. The noise levels were within the CNVIS predictions. For this activity the timing of the works was selected to occur during standard construction hours and within the allowable period for high noise impact, and respite periods were observed. The plant is new, well maintained and serviced regularly. The noise level has been observed to be equal in magnitude but shorter in duration from the previous month as the excavation works are getting deeper and below the slab level, as a result of the higher sandstone grade. Furthermore, in preparation for the installation of the tower crane, excavation was put on hold temporarily in the second half of the month. Other obstructions have been encountered that required additional saw cutting to reduce potential vibration impacts when breaking.
YHA	5	4 Attended, 1 Continuous	Yes	Maximum OOHW Noise Recorded = 79.2B (not associated with CSM works)	Maximum OOHW Prediction = 68dB for the YHA	Noise recordings indicated that the noise levels measured were attributed to the noise generated by trains idling on the Intercity Platforms.
Regent St	4	Continuous	Yes	Max OOH = 68.3dB	66dB	Truck movements on SYAB. Peak of 68.3dB.

Attended: Operator attended measure at either the façade of sensitive receiver, internal dwelling of a sensitive receiver or at a location of interest, typically in anticipation of an event.

Continuous: Real time noise data recorded in 15min intervals, 24/7 and represents the noise levels at the facade of sensitive receivers.

Event: A LAeq15min period of either attended monitoring or a period of interest reviewed from the continuous data. The period is typically selected to monitor works as the works occur, or to validate predictions of planned works, or in response to a complaint, or due to an unexplained elevated LAeq15min period in the continuous data noise trace.