





Water Monitoring Data - Monthly Summary											
Month and Year	July 2024										
Project	Sydenham Metro upgrade										
EPL License No.	21147										
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued										
Specific EPL monitoring conditions			M2 - Requirement to monitor concentration of pollutants discharged								
Monitoring Location	Number of times monitored during the month	Eventbased monitoring (Y/N)	Parameter eg. TSS, pH	Unit eg mg/L	Minimum valuefor month	Maximum valuefor month	AllowableMaximum limit	AllowableMinimum limit	Comment		
South WestMetroCorridor Waterways									No activities requiring water monitoring		

Noise Monitoring Data - Monthly Summary



Month and Year	July 2024	 
Project	Sydenham Metro upgrade	
EPL license No.	21147	
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued	
Specific EPL monitoring conditions	M7.1 - Noise monitoring	

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location (dBA)	Predicted noise level LAeq, 15min at resident (dBA)	Compliant	Comments
1	HEX505 North footing of OHW structure (SW5+515), Sydenham Continues Monitoring	07/07/2024	Day 07:00 to 18:00	General track related construction activities	<ul style="list-style-type: none">Handheld powered and non-powered toolsEWP/telehandler	<ul style="list-style-type: none">Highest LAeq in work period at Monitoring Location is 71Excluding Sydney Train activity, the construction related highest LAeq detected to be 69	70	YES	<ul style="list-style-type: none">RBL: 51Excluding Sydney Train activity, the construction related highest LAeq15min below the predictions.Excluding Sydney Train activity, the construction related highest LAeq in work period (69 dBA) is lower than the predicted level (70 dBA)Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.Actual noise levels (Day shift works) in this area did not trigger offers for Respite.No additional mitigation measures required.

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location (dBA)	Predicted noise level LAeq, 15min at resident (dBA)	Compliant	Comments
1	Location a (NCA 01 - HEX569) 4m N of 17 Leoffene Avenue, Marrickville. Continuous Monitoring	13/07/2024 To 14/07/2024	Night 22:00 to 7:00 (Modeled from 18:00 to 7:00)	General track related construction activities	<ul style="list-style-type: none"> Excavators 3T, 6 and 13T (Inc jack hammer attachments) Balloon tyre dump trucks (Hydrama) Light vehicles Trucks Payloader Handheld powered and non-powered tools Vac Trucks EWPTelehandler Front-end loader Concrete truck and line pump Portable Generators Compressors Compactor Bogie Water pumps 4T Dump Site lights Mobile Crane 	58	62	YES	<ul style="list-style-type: none"> RBL: 33 LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 58 dBA due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (58 dBA) is lower than the predicted level (62 dBA) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
2	Location b (NCA 02 - HEX573) 11m N of 51A Ewart Lane, Dulwich Hill Continuous Monitoring					59	68	YES	<ul style="list-style-type: none"> RBL: 33 LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 59 dBA due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (59 dBA) is lower than the predicted level (68 dBA) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
3	Location c (NCA 02 - HEX591) 11m N of 81 Ewart Street, Dulwich Hill Continuous Monitoring					<ul style="list-style-type: none"> Highest LAeq in work period at Monitoring Location is 67 Due to the monitoring location being 21m from the source of the noise and sensitive receiver being 32m from the source of the noise, the calculated unexpected high noise impact event LAeq at the façade of the sensitive receiver (Actual Noise level) was equal to 53. <p>However, taking the following into consideration:</p> <ul style="list-style-type: none"> The source of noise was from within a cutting (3m). Refer to Appendix A – Figure 3 There was no direct line of site between the source of noise and the sensitive receiver. Residential building wall served as standard attenuation. <p>A reduction of 10dB was applied to estimate the sensitive receivers internal noise levels: 53</p>	60	YES	<ul style="list-style-type: none"> RBL: 33 dBA Estimated construction noise level LAeq15min was below the predictions. The estimated construction related highest LAeq in work period (53 dBA) is lower than the predicted level (60 dBA) Predicted noise levels (night shift works) in this area triggered offers for Respite. Actual noise levels (Night shift works) in this area triggered offers for Respite. No additional mitigation measures required.
4	Location d (NCA 03 - HEX419) 20m N of S Railway St, Hurstville Park Continuous Monitoring					No Construction Activity			
5	Location e (NCA 06 - HEX570) 14m S of 36-38 Campsie Street, Campsie Continuous Monitoring					67	77	YES	<ul style="list-style-type: none"> RBL: 35 dBA LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 67 dBA due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (67 dBA) is lower than the predicted level (77 dBA) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
6	Location f (NCA 07 - HEX505) 4m E of 1 Hall St, Belmore Continuous Monitoring					66	70	YES	<ul style="list-style-type: none"> RBL: 35 dBA LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 66 dBA due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (66 dBA) is lower than the predicted level (70 dBA) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
7	Location g (NCA 08 - HEX589) 50m SE of 54 Railway Parade, Lakemba Continuous Monitoring					68	73	YES	<ul style="list-style-type: none"> RBL: 41 dBA LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 68 dBA due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (68 dBA) is lower than the predicted level (73 dBA) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
8	Location h (NCA 12 - HEX582) 222m NW of 2 A West Terrace, Bankstown Continuous Monitoring					<ul style="list-style-type: none"> Highest LAeq in work period at Monitoring Location is 64 Due to the monitoring location is 22m from the noise source and sensitive receiver is 200m from the noise source, the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 45 	51	YES	<ul style="list-style-type: none"> RBL: 42 dBA LAeq15min below predictions. Noise monitor defect highest LAeq15min value of 64 dBA due to general construction noise between the hours 22:00 to 07:00. The Calculated LAeq in work period (45 dBA) is lower than the predicted level (51 dBA) Predicted noise levels (Night shift works) in this area did not trigger offers for Respite.

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq 15min at resident	Compliant	Comments
1	Location a (NCA 01 - HEX569) 4m N of 17 Leoffrene Avenue, Maitlandville. Continuous Monitoring	14/07/2024	Day to Evening 7:00 to 15:00	General track related construction activities	<ul style="list-style-type: none"> Excavators 3T, 6 and 13T (inc jack hammer attachments) Balloon tyre dump trucks (Hydrema) Light vehicles Trucks Payloaders Handheld powered and non-powered tools Vac Trucks EW/telehandler Front-end loader Concrete truck and line pump Portable Generators Compressors Compactor Bogie Water pumps 4T Dump Site lights Mobile Crane 	65	66	YES	<ul style="list-style-type: none"> RBL: 38 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (65 dBA) is lower than the predicted level (66 dBA) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
2	Location b (NCA 02 - HEX573) 11m N of 51A Ewart Lane, Dulwich Hill Continuous Monitoring					63	67	YES	<ul style="list-style-type: none"> RBL: 38 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 63 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (63 dBA) is lower than the predicted level (67 dBA) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
3	Location c (NCA 02 - HEX591) 11m N of 81 Ewart Street, Dulwich Hill Continuous Monitoring					68	74	YES	<ul style="list-style-type: none"> RBL: 38 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 68 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (68 dBA) is lower than the predicted level (74 dBA) Predicted noise levels (Day shift works) in this area trigger offers for Respite.
4	Location d (NCA 03 - HEX419) 20m N of 5 Railway St, Hurlstone Park Continuous Monitoring					61	53	YES	<ul style="list-style-type: none"> RBL: 38 dBA LAeq15min above predictions. Noise monitor detect highest LAeq15min value of 61 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (61 dBA) is higher than the predicted level (53 dBA) Predicted noise levels (Day shift works) in this area trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers above the Respite limit. No additional mitigation measures required.
5	Location e (NCA 06 - HEX570) 14m S of 36-38 Campsie Street, Campsie Continuous Monitoring					66	77	YES	<ul style="list-style-type: none"> RBL: 45 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 66 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (66 dBA) is lower than the predicted level (77 dBA) Predicted noise levels (Day shift works) in this area trigger offers for Respite.
6	Location f (NCA 07 - HEX505) 4m E of 1 Hall St, Belmore Continuous Monitoring					65	70	YES	<ul style="list-style-type: none"> RBL: 41 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (65 dBA) is lower than the predicted level (70 dBA) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
7	Location g (NCA 08 - HEX589) 50m SE of 54 Railway Parade, Lakemba Continuous Monitoring					71	72	YES	<ul style="list-style-type: none"> RBL: 47 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 71 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (71 dBA) is lower than the predicted level (72 dBA) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
8	Location h (NCA 12 - HEX582) 222m NW of 2 A West Terrace, Bankstown Continuous Monitoring					<ul style="list-style-type: none"> Highest LAeq in work period at Monitoring Location is 79 Due to the monitoring location is 22m from the noise source and sensitive receiver is 200m from the noise source, the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 60 	66	YES	<ul style="list-style-type: none"> RBL: 54 dBA LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 60 dBA due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (60 dBA) is higher than the predicted level (66 dBA) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite. No additional mitigation measures required.

Vibration Monitoring Data - Monthly Summary

Month and Year	July 2024										
Project	Sydenham Metro upgrade										
EPL license No.	21147										
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued										
Specific EPL monitoring conditions	M7.2 - Vibration monitoring										
Monitoring Location	Number of times monitored during the month	Attended or continuous monitoring	Eventbased monitoring (Y/N)	Parameter eg. PPV	Unit	Minimum value for month	Maximum value for month	Goals/Targets	Comment		
South West Metro Corridor									No activities requiring vibration monitoring		