

Tyrecycle
1-21 Grady Crescent
Erskine Park NSW
EPL: 21464

EPA NSW public register link: <https://app.epa.nsw.gov.au/prpoeoapp/>

Noise and air quality monitoring results

Noise monitoring results

- Table 5.1 below provides attended noise measurement results
- Measurements collected 23 & 25 May 2022; report received June 2022
- Measurements collected at 3 residential monitoring points located north and north east of the Tyrecycle Erskine Park premises.
- Monitoring frequency: annual

Table 5.1 Attended noise measurement results

Table 5.1 - Attended Noise Measurement Results				
Time period	Parameter	Measured Level dB(A)	Noise Limit dB(A)	Result/Comment
Point 1				
(23/5 4.30-6pm) Day (24/5 2.30-4pm) Day (25/5 1.30-3pm) Day	L _{Aeq} 15-min	(45) ¹ 41 41	42	Weather affected – high wind Pass Pass
(23/5 6-6.30pm) Evening (24/5 9.30-10pm) Evening (25/5 8-8.30pm) Evening	L _{Aeq} 15-min	(45) ¹ (44) ¹ 42	42	Weather affected – high wind Minor exceedance- Traffic Noise Pass
(24/5 12.30-1.30am) Night (24/5 10-11pm) Night (26/5 12.30-1.30am) Night	L _{Aeq} 15-min	43 43 43	42	Minor exceedance- Traffic Noise Minor exceedance- Traffic Noise Minor exceedance- Traffic Noise
(24/5 12.30-1.30am) Night (24/5 10-11pm) Night (26/5 12.30-1.30am) Night	L _{Afmax}	52 49 50	56	Pass Pass Pass
Point 2				
(23/5 2.40-4.10pm) Day (24/5 4.30-6pm) Day (25/5 3.15-4.45pm) Day	L _{Aeq} 15-min	(45) ¹ 39 42	42	Weather affected – high wind Pass Pass
(23/5 8-8.30pm) Evening (24/5 8-8.30pm) Evening (25/5 8.45-9.15pm) Evening	L _{Aeq} 15-min	42 41 41	42	Pass Pass Pass
(23/5 11.15pm-12.15am) Night (24/5 11.30-12.30am) Night (25/5 11.15-12.15am) Night	L _{Aeq} 15-min	42 42 39	42	Pass Pass Pass
(23/5 11.15pm-12.15am) Night (24/5 11.30-12.30am) Night (25/5 11.15-12.15am) Night	L _{Afmax}	50 49 50	56	Pass Pass Pass
Point 3				
(23/5 1-2.30pm) Day (24/5 12.30-2pm) Day (25/5 5.15-6.45pm) Day	L _{Aeq} 15-min	(42) ¹ (43) ² 42	42	Weather affected/Construction Noise Minor exceedance- Traffic Noise Pass
(23/5 9-9.30pm) Evening (24/5 8-8.30pm) Evening (25/5 9.30-10pm) Evening	L _{Aeq} 15-min	42 42 42	42	Pass Pass Pass
(23/5 10-11pm) Night (24/5 12.45-1.45am) Night (25/5 10-11pm) Night	L _{Aeq} 15-min	42 42 42	42	Pass Pass Pass
(23/5 10-11pm) Night (25/5 12.45-1.45am) Night (25/5 10-11pm) Night	L _{Afmax}	51 50 48	56	Pass Pass Pass

1. Measurements in brackets have been excluded from assessment due to weather events / extraneous noise during measurement)

2. Exceedances of less than 2dB have been allocated as a minor exceedance.

Air quality monitoring results

- . Table 1 provides the post commissioning monitoring results, confirming air emission performance of discharge point servicing two cyclone filters against modelled assessment completed in 2023
- . Measurements collected: 4 May 2023; final assessment report received 6 June 2023
- . Monitoring frequency: Special frequency 1 – one round of monitoring required

Table 1. Air quality monitoring emission rates modelled and monitored results

Parameter	Modelled air quality assessment (2023)	Monitoring result Point 1	Monitoring result Point 2
Diameter (m)	1.2	0.6	1.25
Flow rate (m ³ /s)	24.9	2.5	14
Velocity (m/s)	22	9.9	13
Concentration (mg/m ³)	5	3.6	1.4
Emission rate (g/s)	0.1	0.009	0.02