

## Dartbrook Mine Environmental Protection Licence Monitoring Data

Dartbrook Operations Pty Limited is the operator of Dartbrook Mine.

Environmental Protection Licence (EPL) 4885 outlines the environmental management and monitoring requirements for Dartbrook Mine. The key licence details for EPL 4885 are presented in **Table 1**. Further information regarding EPL 4885 can be obtained from the public register for the *Protection of the Environment Operations Act 1997*: <https://app.epa.nsw.gov.au/prpoeoapp/>.

**Table 1** Licence Details

<b>Licence Number</b>	EPL 4885
<b>Licence Holder</b>	AQC Dartbrook Management Pty Ltd
<b>Premises</b>	Dartbrook Mine Stair Street Muswellbrook NSW 2333
<b>Discharge / Monitoring Point</b>	Point 5 – Effluent irrigation Area Point 6 – Hunter River Salinity Trading Scheme discharge point Point 7 – Groundwater monitoring

EPL 4885 identifies three discharge/monitoring points, as detailed in **Table 2**. Monitoring of soil quality at the effluent irrigation area (EPL Point 5) is not required during care and maintenance.

**Table 2** Discharge / Monitoring Points

Point ID	Description	Monitoring Frequency	Monitoring Parameter	Limit
5 *	Effluent irrigation area	Yearly	Available phosphorus	N/A
			Total phosphorus	N/A
			Conductivity	N/A
			Exchangeable sodium	N/A
			Nitrate	N/A
			Total Nitrogen	N/A
			PH	N/A
6	Hunter River Salinity Trading Scheme discharge point	During discharge	Conductivity	N/A
			pH	6.5 – 9.5
			Total suspended solids	120 mg/L
7	Groundwater monitoring	Quarterly	Depth	N/A
			pH	N/A
			Salinity	N/A

\* Not required to be monitored during care and maintenance.

Under EPL 4885, no monitoring was required for the effluent irrigation area, Hunter River Salinity Trading Scheme discharge point or groundwater for this reporting period.

EPL 4885 identifies five air quality monitoring points, as detailed in **Table 3**. Air quality monitoring data is included in **Appendix A**.

**Table 3** Air Quality Monitoring Points

Point ID	Description	Monitoring Frequency	Monitoring Parameter	Limit
21, 22, 23, 24 and 25	Air Quality Monitoring	Every 6 days	Particulate matter below 10 micrograms per cubic metre ( $\mu\text{g}/\text{m}^3$ )	50 $\mu\text{g}/\text{m}^3$ (24-hour Averaging Period)

**APPENDIX A**  
**AIR QUALITY**  
**MONITORING DATA**

Sample Location	EPA ID No.	Sample Date	NO SAMPLE / Comment	Averaging Period	PM <sub>10</sub> (µg/m <sup>3</sup> )
ESMS	21	06-Mar-24		24 hour	17.0
		12-Mar-24		24 hour	20.7
		18-Mar-24		24 hour	2.5
		24-Mar-24		24 hour	7.9
		30-Mar-24		24 hour	12.4
Fan Site 1	22	06-Mar-24		24 hour	27.0
		12-Mar-24		24 hour	30.6
		18-Mar-24		24 hour	3.7
		24-Mar-24		24 hour	13.7
		30-Mar-24		24 hour	21.7
Hulbert	23	06-Mar-24	No power (ongoing fault).	24 hour	
		12-Mar-24	No power (ongoing fault).	24 hour	
		18-Mar-24	No power (ongoing fault).	24 hour	
		24-Mar-24	No power (ongoing fault).	24 hour	
		30-Mar-24		24 hour	
Macairstrip	24	06-Mar-24		24 hour	25.3
		12-Mar-24		24 hour	31.7
		18-Mar-24		24 hour	4.6
		24-Mar-24		24 hour	15.0
		30-Mar-24		24 hour	22.4
Standings	25	06-Mar-24		24 hour	21.2
		12-Mar-24		24 hour	29.5
		18-Mar-24		24 hour	3.9
		24-Mar-24		24 hour	13.3
		30-Mar-24		24 hour	20.2