

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

Licence Number	EPL 4885
Licence Holder	AQC Dartbrook Management Pty Ltd
Premises	Dartbrook Mine Stair Street Muswellbrook NSW 2333
Discharge / Monitoring Point	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 10 (µg/m³)
ESMS	21	05-Feb-24		24 hour	17.3
		11-Feb-24		24 hour	10.8
		17-Feb-24		24 hour	7.4
		23-Feb-24		24 hour	10.0
		29-Feb-24		24 hour	16.6
Fan Site 1	22	05-Feb-24		24 hour	23.3
		11-Feb-24		24 hour	14.8
		17-Feb-24		24 hour	11.3
		23-Feb-24		24 hour	11.9
		29-Feb-24		24 hour	20.2
Hulbert	23	05-Feb-24	No power (ongoing fault)	24 hour	
		11-Feb-24	No power (ongoing fault)	24 hour	
		17-Feb-24	No power (ongoing fault)	24 hour	
		23-Feb-24	No power (ongoing fault)	24 hour	
		29-Feb-24	No power (ongoing fault)	24 hour	
Airstrip	24	05-Feb-24		24 hour	23.0
		11-Feb-24		24 hour	14.1
		17-Feb-24		24 hour	11.5
		23-Feb-24		24 hour	12.7
		29-Feb-24		24 hour	21.3
Standings	25	05-Feb-24		24 hour	19.9
		11-Feb-24		24 hour	12.2
		17-Feb-24		24 hour	9.6
		23-Feb-24		24 hour	13.8
		29-Feb-24		24 hour	18.9