

## 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>	Dartbrook Operations 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 until the recommencement of effluent application at the premises.

**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 until the recommencement of effluent application at the premises.

Appendix A presents the monitoring data collected in accordance with EPL 4885. There were no water discharges during the reporting period and as such, no monitoring was required at EPL Point 6.

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

**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**  
**GROUNDWATER**  
**MONITORING DATA**

Sample Location	Sample Date	NO SAMPLE / Comment	Depth to Water - Metres	pH - Field	Electrical Conductivity $\mu\text{S/cm}$ - Field
ADN1	23-Oct-24		5.33	6.95	3,280
Athlone	23-Oct-24	No access			
BEL1	25-Oct-24		3.23	7.69	3,910
Belgrave	23-Oct-24		6.27	7.56	8,230
CAD2	24-Oct-24	Bore dry			
CAS2	25-Oct-24		30.23	6.90	12,600
CAS4	25-Oct-24		24.50	7.24	9,670
COR3	24-Oct-24		3.27	7.56	2,172
DAN2	24-Oct-24		3.93	6.85	2,094
DDH124	23-Oct-24	Bore dry	14.66		
DDH183	23-Oct-24		25.97	6.89	6,140
DDH193	23-Oct-24	No access			
DDH212a	24-Oct-24		26.88	7.98	3,900
DDH212b	24-Oct-24		26.80	7.99	3,890
DDH212c	24-Oct-24		26.74	8.03	3,880
FRA1	25-Oct-24		10.35	6.78	1,545
GWO38412	23-Oct-24		2.63	6.91	1,353
GWO38582	23-Oct-24	No access			
JLON1	23-Oct-24	Bore dry			
KAl1	23-Oct-24		11.07	7.13	585.7
Kayuga 1	25-Oct-24		4.7	7.16	4,080
RDH271	23-Oct-24		83.02	7.32	5,680
RDH505	25-Oct-24		4.7	7.13	10,600
RDH508		Bore damaged – unable to be sampled			
RDH508a		Bore damaged – unable to be sampled			
RDH509	25-Oct-24		10.06	7.04	7,070
RDH510	23-Oct-24		10.07	7.31	7,650
RDH510a	24-Oct-24		9.97	7.04	7,850
RDH511	24-Oct-24		7.96	7.36	4,460
RDH511a	25-Oct-24		7.96	7.08	6,550
TLON1	25-Oct-24		6.72	7.39	11,200
WAL2	23-Oct-24		9.44	7.26	1,965
WM1a	24-Oct-24		5.64	7.18	901.7
WM3	24-Oct-24		6.59	6.90	1,904

**APPENDIX B**  
**AIR QUALITY**  
**MONITORING DATA**

Sample Location	EPA ID No.	Sample Date	NO SAMPLE / Comment	Averaging Period	PM 10 (µg/m³)
ESMS	21	02-Oct-24		24 hour	14.2
		08-Oct-24		24 hour	24.4
		14-Oct-24		24 hour	7.2
		20-Oct-24		24 hour	14.6
		26-Oct-24		24 hour	16.2
Fan Site 1	22	02-Oct-24		24 hour	26.7
		08-Oct-24		24 hour	36.2
		14-Oct-24		24 hour	12.0
		20-Oct-24		24 hour	21.6
		26-Oct-24		24 hour	29.1
Hulbert	23	02-Oct-24	No power (ongoing fault)	24 hour	
		08-Oct-24	No power (ongoing fault)	24 hour	
		14-Oct-24	No power (ongoing fault)	24 hour	
		20-Oct-24	No power (ongoing fault)	24 hour	
		26-Oct-24	No power (ongoing fault)	24 hour	
Macairstrip	24	02-Oct-24		24 hour	17.8
		08-Oct-24		24 hour	25.2
		14-Oct-24		24 hour	14.0
		20-Oct-24		24 hour	20.7
		26-Oct-24		24 hour	28.0
Standings	25	02-Oct-24		24 hour	12.7
		08-Oct-24		24 hour	20.9
		14-Oct-24		24 hour	9.6
		20-Oct-24		24 hour	16.3
		26-Oct-24		24 hour	18.2