

November 2017

Dartbrook Mine Environmental Protection Licence Monitoring Data

AQC Dartbrook Management Pty Limited (AQC) is the owner of the Dartbrook Mine, located in the Upper Hunter Valley of New South Wales. AQC is a wholly owned subsidiary of Australian Pacific Coal Limited.

AQC is the holder of Environmental Protection Licence (EPL) 4885, which outlines 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 2 – Hunter River Salinity Trading Scheme (HRSTS) discharge point Point 3 – Groundwater monitoring Point 4 – HRSTS discharge monitoring point Point 5 – Effluent irrigation area

EPL 4885 identifies three 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 Monitoring Points

Point ID	Description	Monitoring Frequency	Monitoring Parameter	Limit
3	Groundwater monitoring	Quarterly	Depth	N/A
			pH	N/A
			Salinity	N/A
4	Hunter River Salinity Trading Scheme (HRSTS) discharge point	During discharge	Conductivity	N/A
			pH	6.5 – 9.5
			Total suspended solids	120 mg/L

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

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

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 4.

Appendix A
Monitoring Data

Sample Location	Sample Date	NO SAMPLE / Comment	Depth to Waters - metres	pH - field	Electrical Conductivity µS/cm - field
ADN1	06-Nov-17		6.12	7.1	2700
Athlone	03-Nov-17		7.17	7.2	10690
BEL1	03-Nov-17		3.50	7.2	9200
Belgrave	03-Nov-17		7.86	7.6	8960
BRO3	27-Nov-17		7.16	7.8	1031
CAD2	27-Nov-17	Locked gate and electric fence			
CAS2	03-Nov-17		38.82	6.8	12490
CAS3		Dry			
CAS4	03-Nov-17		18.85	6.7	10160
COR3	27-Nov-17	locked gate			
DAN2	27-Nov-17		5.74	7.3	2130
DDH124	27-Nov-17	Too low to sample (mud)	14.70		
DDH183	27-Nov-17		28.20	6.8	7020
DDH193	03-Nov-17		42.40	6.8	6120
DDH212a	27-Nov-17		27.52	8.4	3790
DDH212b	27-Nov-17		27.50	8.3	3750
DDH212c	27-Nov-17		27.40	8.3	3711
FRA1	27-Nov-17		10.35	7.4	475
GWO38412	27-Nov-17		5.47	7.8	1610
GWO38582	03-Nov-17		5.95		
JLON1	03-Nov-17		12.07		
JOR1	27-Nov-17		9.97	7.3	2160
KAI1	03-Nov-17		11.40		
Kayuga 1	03-Nov-17		12.00		
RDH271	03-Nov-17		82.60	7.3	5700
RDH280	03-Nov-17	Too low to sample (mud)	70.40		
RDH506		Discontinued			
RDH507		Discontinued			
RDH508	06-Nov-17		10.56	7.0	7200
RDH508a	06-Nov-17		18.05	7.0	7390
RDH509	06-Nov-17		10.69	7.1	4340
RDH509a	06-Nov-17	Dry	15.10		
RDH510	06-Nov-17		10.50	6.8	8850
RDH510a	06-Nov-17		10.39	7.0	9050
RDH511	06-Nov-17		8.40	7.6	5220
RDH511a	06-Nov-17		8.40	7.2	6610
TLON1	27-Nov-17	Unable to draw water. Old farm well			
WAL2	27-Nov-17		10.29	7.2	2020
WM1A	27-Nov-17		7.60	7.5	2790
WM3	27-Nov-17		7.10	6.8	3130
BYF1	15-Jan-18		9.56	7.8	3250
DDH186	15-Jan-18	Locked gate. Nil access. DS advised			