

July 2021

**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 3 – Groundwater monitoring Point 4 – Hunter River Salinity Trading Scheme (HRSTS) discharge point Point 5 – Effluent irrigation area

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
3	Groundwater monitoring	Quarterly	Depth	N/A
			pH	N/A
			Salinity	N/A
4	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 Water - metres	pH - field	Electrical Conductivity µS/cm - field
ADN1	02/08/21		5.47	6.78	3440
Athlone	29/07/21	Not our lock - no key			
BEL1	26/07/21		4.34	7.29	3230
Belgrave	26/07/21	No access			
BIR2	04/08/21		6.83	8.29	858
BRA2	02/07/21		6.87	7.10	3230
BRO3	26/07/21	Mud @ 5.76m			
CAD2	02/07/21	Old well - insufficient water	11.79	6.60	4210
CAS1	26/07/21	Dead animal remains in water	13	7.50	10520
CAS2	29/07/21	Rusty old bore	38.68	6.65	16640
CAS3		Dry			
CAS4	04/08/21	Oil in very old bore	27.3	6.69	12170
Casey	26/07/21		10.14	7.33	1391
COR2	04/08/21		2.09	7.94	2950
COR3	04/08/21		2.63	8.00	3176
DAN2	02/07/21		4.39	6.89	3110
DAY1	02/07/21		5.36	7.20	1183
DDH124	29/07/21	Too low to sample	14		
DDH183	29/07/21	No access - locked gate			
DDH186a	11/08/21	No access - locked gate			
DDH186b	11/08/21	No access - locked gate			
DDH186c	11/08/21	No access - locked gate			
DDH193	11/08/21	No access - locked gate			
DDH212a	11/08/21	No access - locked gate			
DDH212b	11/08/21	No access - locked gate			
DDH212c	11/08/21	No access - locked gate			
DDH242	26/07/21	Dry			
DDH243	26/07/21	Dry			
DDH244R	26/07/21	Dry			
DDH245	26/07/21	Dry			
DDH306a	10/08/21		20.42	8.44	2009
DDH306b	10/08/21	Frothy in purple and red containers	19.32	7.57	8560
DDH306c	10/08/21	Frothy in purple and red containers	22.35	7.51	15490
DDH74	02/07/21		10.96	7.38	4550
DUC1		No access			
DUCN	29/07/21		9.47	7.29	3660
DUCW		No access			
ESP2	26/07/21	Dry			
FRA1	03/08/21		10.35	7.05	1014
GAR2	03/08/21		8.28	7.02	730
GAR3	03/08/21		10.22	6.95	1169
GAR4	03/08/21		8.65	7.27	2323
GOO1	02/07/21	Rusty old bore	32.48	7.22	1760

GOO2	02/07/21	Dead carcass in bore	16.13	7.19	4230
GWO32889		Old windmill - blocked			
GWO38412	04/08/21		4.23	6.46	1067
GWO38582	29/07/21	No access - locked gate			
HAL1	02/07/21		4.49	7.18	890
JLON1	26/07/21		13.81	7.09	5200
JOR1	26/07/21	No access			
JS & NM Lonergan	26/07/21		11.32	7.24	2156
KAI1	03/08/21		11.05	6.73	601
KAI2	03/08/21		10.16	7.06	636
KAI3	03/08/21		8.44	7.14	1102
Kayuga 1	26/07/21	Tree roots	13.22	6.80	9730
OBR1	03/08/21		9.16	7.94	1229
RDH266	29/07/21	Dry			
RDH271	29/07/21		82.9	7.33	7080
RDH280	29/07/21	Dry			
RDH289	29/07/21	Blocked			
RDH421	29/07/21	Dry			
RDH505	10/08/21		5.61	7.41	10930
RDH506		Discontinued			
RDH507		Discontinued			
RDH508	26/07/21	Bores run over - unable to sample			
RDH508a	26/07/21	Bores run over - unable to sample			
RDH509	11/08/21		10.16	7.09	7020
RDH509a	11/08/21	Too low to sample	14.5		
RDH510	11/08/21		10.45	6.05	10330
RDH510a	11/08/21		10.35	6.99	10930
RDH511	11/08/21		8.07	7.72	23280
RDH511a	11/08/21		8.07	7.31	6220
RDH534a	10/08/21	Blocked - no sample	2.29		
RDH534b	10/08/21		37.32	7.17	5910
RDH534c	10/08/21		20.4	6.70	7380
RDH535a	29/07/21	Limited water in bore, not enough for full sample	60.92	6.80	14570
RDH535b	29/07/21	Limited water in bore	45.88	6.83	17190
RDH535c	29/07/21	Limited water in bore	18.17	6.77	17890
RDH536a	10/08/21		16.96	6.75	7350
RDH536b	10/08/21		17.57	7.10	7740
RDH536c	10/08/21	Frothy in purple and red containers	23.88	7.58	13310
RDH537a	10/08/21	Frothy in purple and red containers	17.39	7.26	11350
RDH537b	10/08/21		9.39	7.47	4290
RDH537c	10/08/21	Frothy in purple and red containers	34.31	7.14	14230
RDH538a	29/07/21	Water low, not enough for full sample	18.21	6.92	15680
RDH538b	29/07/21	Too low to sample			
RDH538c	29/07/21	Water low, not enough for full sample	46.68	7.32	7240
RDH539a	10/08/21		13.46	7.03	5540
RDH539b	10/08/21	Too low to sample	13.39		
RDH539c	10/08/21		23.12	8.14	3580

RDH564		No access			
RDH76A	29/07/21		14.26	7.49	8250
RDH76B	29/07/21		15.94	7.15	8430
RIV1	03/08/21		10.85	7.52	1230
Smith	11/08/21		9.15	7.12	2818
TEE4	02/07/21		5.07	7.10	2558
TLON1	02/07/21	Too low to sample			
WAL2	02/07/21		9.37	7.15	2432
WM1a	10/08/21		6.03	7.27	2379
WM3	02/07/21		6.48	6.86	3250