

October 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 $\mu\text{S/cm}$ - field
ADN1	11/10/2021		5.50	7.08	3720
Athlone	11/10/2021	No access, locked gate			
BEL1	13/10/2021	Grass needs cutting	4.43	7.31	3740
Belgrave		No access			
BIR2	18/10/2021	Needs slashing and gate repair	6.67	8.71	1371
BRA2	18/10/2021		5.78	7.04	2962
BRO3	18/10/2021	Mud @ 5.75m, slashing required			
CAD2	18/10/2021	Gate locked			
CAS1	13/10/2021		12.99	7.54	10340
CAS2	13/10/2021		37.15	6.18	16230
CAS3		Dry			
CAS4	13/10/2021		37.10	6.82	12590
Casey	11/10/2021		10.24	9.02	1426
COR2	18/10/2021	Needs slashing ASAP	2.15	7.57	3750
COR3	18/10/2021	Needs slashing ASAP	2.71	8.22	2334
DAN2	18/10/2021		4.30	6.86	3180
DAY1	18/10/2021	Gate hazard, slashing required	5.37	7.29	1442
DDH124		Too low to sample @14.12m	14.12		
DDH183		Locked gate, no access			
DDH186a		No access, gate locked			
DDH186b		No access, gate locked			
DDH186c		No access, gate locked			
DDH193		No access, gate locked			
DDH212a		No access, gate locked			
DDH212b		No access, gate locked			
DDH212c		No access, gate locked			
DDH242		Dry			
DDH243		Dry			
DDH244R		Dry			
DDH245		Dry			
DDH306a	12/10/2021		20.03	8.26	2892
DDH306b	12/10/2021		19.11	7.88	9080
DDH306c	12/10/2021		21.81	7.50	18540
DDH74	18/10/2021		10.34	7.41	4480
DUC1		No access			
DUCN	18/10/2021		10.39	7.32	3097
DUCW		No access			
ESP2		Dry			
FRA1	11/10/2021		10.63	7.15	718
GAR2	11/10/2021		9.16	7.14	690
GAR3	11/10/2021		10.35	7.05	1371
GAR4	8/10/2021	Slashing required	8.72	7.22	2390
GOO1	18/10/2021		28.75	7.00	241
GOO2	18/10/2021	Slashing required, H2S odour	15.43	7.18	4310
GWO32889		Old windmill - blocked			

GWO38412	13/10/2021		4.68	6.99	1454
GWO38582	13/10/2021	No access, locked gate			
HAL1	18/10/2021		4.38	7.14	932
JLON1	18/10/2021	Gate locked			
JOR1		No access			
JS & NM Lonergan	11/10/2021		11.42	8.76	2295
KAI1	11/10/2021		11.23	6.78	614
KAI2	11/10/2021		10.26	7.07	626
KAI3	8/10/2021		8.53	7.34	1040
Kayuga 1	8/10/2021	Tree roots, need key to access gate, slashing required	12.39	8.86	8970
OBR1	8/10/2021	Needs slashing of gateway	9.28	8.03	1284
RDH266		Dry			
RDH271	18/10/2021	H2S odour	82.93	7.25	6560
RDH280		Dry			
RDH289		Blocked			
RDH421		Dry			
RDH505	11/10/2021		5.52	7.37	12530
RDH506		Discontinued			
RDH507		Discontinued			
RDH508		Bores slashed over, unable to sample			
RDH508a		Bores slashed over, unable to sample			
RDH509	8/10/2021	Slashing required, no key to gate (on access road)	10.27	7.34	4690
RDH509a	8/10/2021	Slashing required, H2S odour	14.53	7.01	4010
RDH510	8/10/2021	1 x gate only	10.53	6.89	10070
RDH510a	8/10/2021		10.44	6.87	10510
RDH511	8/10/2021	Slashing required	8.17	8.01	2320
RDH511a	8/10/2021	Slashing required	8.17	7.24	7120
RDH534a	18/10/2021	Blocked			
RDH534b	18/10/2021	Earthy odour	37.35	7.25	7070
RDH534c	18/10/2021	H2S odour	20.72	6.80	8300
RDH535a	12/10/2021	H2S odour	60.92	7.02	15020
RDH535b	12/10/2021		44.65	7.04	17210
RDH535c	12/10/2021		18.22	6.86	19190
RDH536a	18/10/2021	Gate needs replacing, H2S odour	16.49	6.80	8510
RDH536b	18/10/2021	Gate needs replacing	17.19	7.20	8600
RDH536c	18/10/2021	Gate needs replacing, H2S odour	22.92	7.65	14290
RDH537a	12/10/2021	H2S odour	18.10	7.37	12850
RDH537b	12/10/2021		9.30	7.53	5010
RDH537c	12/10/2021		35.29	7.34	15700
RDH538a	12/10/2021	H2S odour	18.21	7.06	15300
RDH538b	12/10/2021	Dry @41.24m			
RDH538c	12/10/2021	H2S odour	46.54	7.29	20680
RDH539a	12/10/2021	H2S odour	13.57	7.32	6760
RDH539b	12/10/2021	Grey/white colour	13.47	7.18	8150
RDH539c	12/10/2021		23.26	8.95	4210
RDH564		No access			
RDH76A	18/10/2021	Slashing required ASAP	15.71	7.51	7420
RDH76B	18/10/2021	Slashing required ASAP	15.95	7.19	7850
RIV1	12/10/2021		10.98	7.59	1180
Smith	8/10/2021		9.12	6.8	2994
TEE4	18/10/2021		5.45	6.89	2724

TLON1		Too low to sample			
WAL2	11/10/2021		9.71	7.22	2929
WM1a	12/10/2021		6.03	8.62	2677
WM1P		Access denied			
WM1Pa		Access denied			
WM3	18/10/2021	H2S odour	6.54	6.91	3090
WPWatt		Bore collapsed			