PATONS LANE RRC
RESOURCE RECOVERY CENTRE

SURFACE WATER MONITORING REPORT – DEWATERING EVENT*

*** via LDP2 (HES) and LDP3 (Dam 3)**

February 16th, 2021

Rainfall: 25 mm (72 h prior to sampling)
Sampled within 24 h of discharge: Yes
Horiba U-52 Calibrated: Yes

Table 1: NSW EPA Licensing Requirements (No. 20814 – 20/8/2019) - Special Frequency 1[a]

Parameter	Units	Analytical Detection Limit (Laboratory LOR)	LDP3 (Dam 3)	S7 Blaxland Creek	LDP2 (HES Gantry)	LDP2 (HES Spillway)	S8 Blaxland Creek	EPL 100th percentile concentration limit	National Water Quality Guidelines[b]
pH		Field Probe	7.40	7.07	8.01	7.99	7.03	6.5−8.5	6.5−8.5[c]
Total Suspended Solids	mg/L	5	41	48	<5	<5	12	50	6−50[c]
Ammonia (as N)	mg/L	0.01	0.02	0.02	<0.01	<0.01	0.02	1.0	0.9 (pH 8.0) Varies with pH[d]
Electrical Conductivity (EC)	µS/cm	Field Probe	828	316	1130	1130	1090	NSL[e,f]	125−2200[c]
Total Dissolved Solids	mg/L	1	470	226	656	673	620	NSL	NGV[g]
Dissolved Oxygen	% Saturation mg/L	Field Probe	76.7 6.65	15.2 1.34	70.8 5.95	72.6 6.13	18.0 1.62	NSL	85−110%[c]
Total Organic Carbon	mg/L	1	2	12	4	4	6	NSL	NGV
Potassium	mg/L	1	2	4	6	6	6	NSL	NGV

[a] Values for pH and dissolved oxygen represent the mean of three independent measurements at each sampling site. All other parameters are based on a composite grab sample of surface water 10−30 cm depth).

[b] ANZECC and ARMCANZ (2000).

[c] Applicable to coastal lowland rivers.

[d] Refer to Tables 8.3.6 and 8.3.7 of ANZECC and ARMCANZ (2000) to determine the guideline value based on site-specific pH and temperature.

[e] NSL, no specific limit.

[f] Recommended limit of 1600 µS/cm for discharge to Blaxland Creek (or off-site).

[g] NGV, no guideline value.