Data range of report	1/10/2022 to 31/12/2022	Rainfall Depth (mm)	306

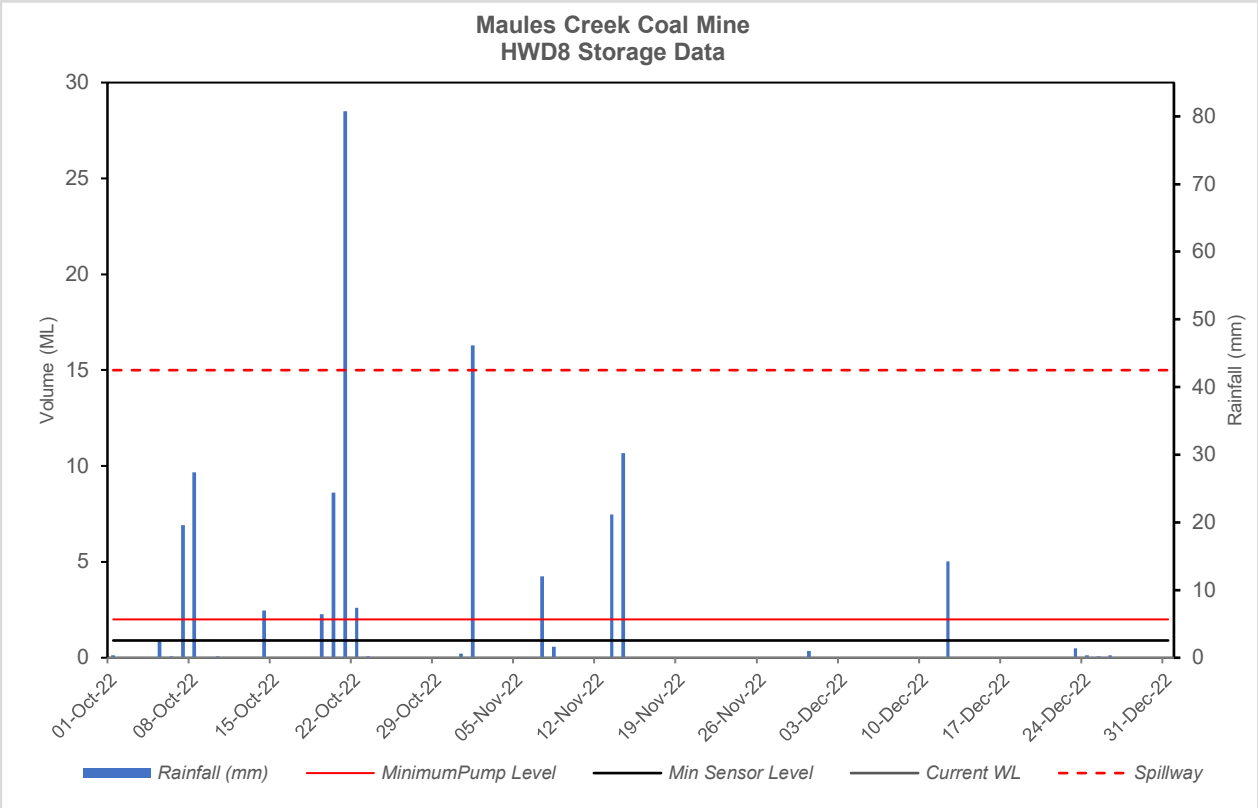
Dam Name **HWD8**

Latest field data				ML
pH		0	Minimum sensor level	0.9
EC	us/cm	0	Minimum pump level	2.0
TSS	mg/L	0	Spillway	15.8
OG	mg/L	0	Current level	<0.1

Notes

HWD8 had no inflows over the reporting period. The water level is below the minimum operating level of the dams equipment and there is insufficient water to take a water quality sample from

HWD Recorded Data



Latest Photo - 24/01/2023

Quarterly data									
Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC	TSS	Oil and Grease
1/10/2022	0.4	0	0	0	0				
2/10/2022	0	0	0	0	0				
3/10/2022	0	0	0	0	0				
4/10/2022	0	0	0	0	0				
5/10/2022	2.6	0	0	0	0				
6/10/2022	0.2	0	0	0	0				
7/10/2022	20	0	0	0	0				
8/10/2022	27	0	0	0	0				
9/10/2022	0	0	0	0	0				
10/10/2022	0	0	0	0	0				
11/10/2022	0	0	0	0	0				
12/10/2022	0	0	0	0	0				
13/10/2022	0	0	0	0	0				
14/10/2022	7	0	0	0	0				
15/10/2022	0	0	0	0	0				
16/10/2022	0	0	0	0	0				
17/10/2022	0	0	0	0	0				
18/10/2022	0	0	0	0	0				
19/10/2022	6	0	0	0	0				
20/10/2022	24	0	0	0	0				
21/10/2022	81	0	0	0	0				
22/10/2022	7	0	0	0	0				
23/10/2022	0	0	0	0	0				
24/10/2022	0	0	0	0	0				
25/10/2022	0	0	0	0	0				
26/10/2022	0	0	0	0	0				
27/10/2022	0	0	0	0	0				
28/10/2022	0	0	0	0	0				
29/10/2022	0	0	0	0	0				
30/10/2022	0	0	0	0	0				
31/10/2022	1	0	0	0	0				
1/11/2022	46	0	0	0	0				
2/11/2022	0	0	0	0	0				
3/11/2022	0	0	0	0	0				
4/11/2022	0	0	0	0	0				
5/11/2022	0	0	0	0	0				
6/11/2022	0	0	0	0	0				
7/11/2022	12	0	0	0	0				
8/11/2022	2	0	0	0	0				
9/11/2022	0	0	0	0	0				
10/11/2022	0	0	0	0	0				
11/11/2022	0	0	0	0	0				
12/11/2022	0	0	0	0	0				
13/11/2022	21	0	0	0	0				
14/11/2022	30	0	0	0	0				
15/11/2022	0	0	0	0	0				
16/11/2022	0	0	0	0	0				
17/11/2022	0	0	0	0	0				
18/11/2022	0	0	0	0	0				
19/11/2022	0	0	0	0	0				
20/11/2022	0	0	0	0	0				
21/11/2022	0	0	0	0	0				
22/11/2022	0	0	0	0	0				
23/11/2022	0	0	0	0	0				
24/11/2022	0	0	0	0	0				
25/11/2022	0	0	0	0	0				
26/11/2022	0	0	0	0	0				
27/11/2022	0	0	0	0	0				
28/11/2022	0	0	0	0	0				

Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receicing environment (ML)	pH	EC	TSS	Oil and Grease
29/11/2022	0	0	0	0	0				
30/11/2022	1.0	0	0	0	0				
1/12/2022	0	0	0	0	0				
2/12/2022	0	0	0	0	0				
3/12/2022	0	0	0	0	0				
4/12/2022	0	0	0	0	0				
5/12/2022	0	0	0	0	0				
6/12/2022	0	0	0	0	0				
7/12/2022	0	0	0	0	0				
8/12/2022	0	0	0	0	0				
9/12/2022	0	0	0	0	0				
10/12/2022	0	0	0	0	0				
11/12/2022	0	0	0	0	0				
12/12/2022	14	0	0	0	0				
13/12/2022	0	0	0	0	0				
14/12/2022	0	0	0	0	0				
15/12/2022	0	0	0	0	0				
16/12/2022	0	0	0	0	0				
17/12/2022	0	0	0	0	0				
18/12/2022	0	0	0	0	0				
19/12/2022	0	0	0	0	0				
20/12/2022	0	0	0	0	0				
21/12/2022	0	0	0	0	0				
22/12/2022	0	0	0	0	0				
23/12/2022	1.4	0	0	0	0				
24/12/2022	0.4	0	0	0	0				
25/12/2022	0	0	0	0	0				
26/12/2022	0	0	0	0	0				
27/12/2022	0	0	0	0	0				
28/12/2022	0	0	0	0	0				
29/12/2022	0	0	0	0	0				
30/12/2022	0	0	0	0	0				
31/12/2022	0	0	0	0	0				

Data range of report	1/10/2022 to 31/12/2022	Rainfall Depth (mm)	306

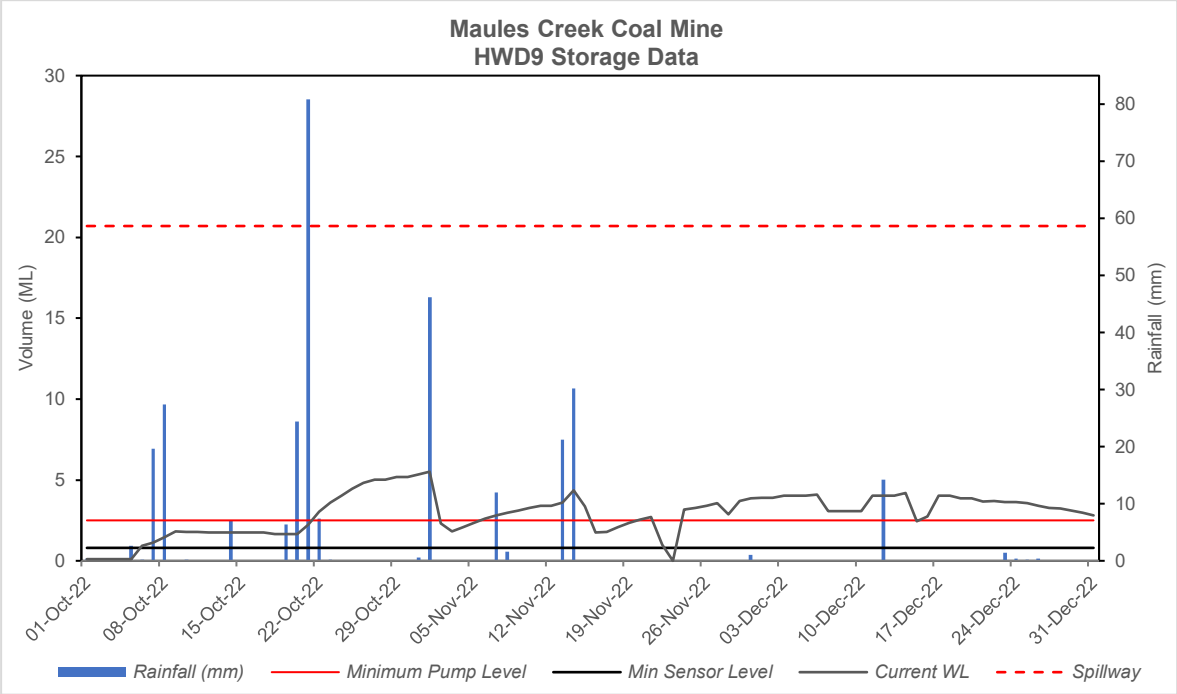
Dam Name **HWD9**

Latest field data				ML
pH		7.06	Minimum sensor level	0.8
EC	us/cm	170	Minimum pump level	2.5
TSS	mg/L	142	Spillway	20.1
OG	mg/L	<5	Current level	2.8

Notes

13 ML of inflows compared to 10.2ML pumped to the receiving environment.

HWD Recorded Data



Latest Photo - 24/01/2023

Quarterly data									
Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC	TSS	Oil and Grease
1/10/2022	0.4	0.0	0.0	0.0	0.0				
2/10/2022	0.0	0.0	0.0	0.0	0.0				
3/10/2022	0.0	0.0	0.0	0.0	0.0				
4/10/2022	0.0	0.0	0.0	0.0	0.0				
5/10/2022	2.6	0.0	0.0	0.0	0.0				
6/10/2022	0.2	0.0	0.0	0.0	0.0				
7/10/2022	19.6	0.2	0.0	0.0	0.0				
8/10/2022	27.4	0.3	0.0	0.0	0.0				
9/10/2022	0.0	0.4	0.0	0.0	0.0				
10/10/2022	0.2	0.0	0.0	0.0	0.0				
11/10/2022	0.0	0.0	0.0	0.0	0.0				
12/10/2022	0.0	0.0	0.0	0.0	0.0	6.6	200	55	<10
13/10/2022	0.0	0.0	0.0	0.0	0.0				
14/10/2022	7.0	0.0	0.0	0.0	0.0				
15/10/2022	0.0	0.0	0.0	0.0	0.0				
16/10/2022	0.0	0.0	0.0	0.0	0.0				
17/10/2022	0.0	0.0	0.0	0.0	0.0				
18/10/2022	0.0	0.0	0.0	0.0	0.0				
19/10/2022	6.4	0.0	0.0	0.0	0.0				
20/10/2022	24.4	0.0	0.0	0.0	0.0				
21/10/2022	80.8	0.6	0.0	0.0	0.0				
22/10/2022	7.4	0.8	0.0	0.0	0.0				
23/10/2022	0.2	0.5	0.0	0.0	0.0				
24/10/2022	0.0	0.4	0.0	0.0	0.0				
25/10/2022	0.0	0.4	0.0	0.0	0.0				
26/10/2022	0.0	0.4	0.0	0.0	0.0				
27/10/2022	0.0	0.2	0.0	0.0	0.0				
28/10/2022	0.0	0.0	0.0	0.0	0.0				
29/10/2022	0.0	0.0	0.0	0.0	0.0				
30/10/2022	0.0	0.0	0.0	0.0	0.0				
31/10/2022	0.6	0.2	0.0	0.0	0.0				
1/11/2022	46.2	1.2	1.0	0.0	1.0	7.1	170	142	<5
2/11/2022	0.0	0.7	2.1	0.0	2.1				
3/11/2022	0.0	0.0	1.1	0.0	1.1				
4/11/2022	0.0	0.0	0.0	0.0	0.0				
5/11/2022	0.0	0.0	0.0	0.0	0.0				
6/11/2022	0.0	0.0	0.0	0.0	0.0				
7/11/2022	12.0	0.2	0.0	0.0	0.0				
8/11/2022	1.6	0.2	0.0	0.0	0.0				
9/11/2022	0.0	0.0	0.0	0.0	0.0				
10/11/2022	0.0	0.0	0.0	0.0	0.0				
11/11/2022	0.0	0.0	0.0	0.0	0.0				
12/11/2022	0.0	0.0	0.8	0.0	0.8				
13/11/2022	21.2	1.7	0.0	0.0	0.0				
14/11/2022	30.2	3.4	0.2	0.0	0.2	7.1	180	169	<5
15/11/2022	0.0	0.2	1.2	0.0	1.2				
16/11/2022	0.0	0.0	1.3	0.0	1.3				
17/11/2022	0.0	0.0	0.0	0.0	0.0				
18/11/2022	0.0	0.0	2.5	0.0	2.5				
19/11/2022	0.0	0.0	0.0	0.0	0.0				
20/11/2022	0.0	0.0	0.0	0.0	0.0				
21/11/2022	0.0	0.0	0.0	0.0	0.0				
22/11/2022	0.0	0.0	0.0	0.0	0.0				
23/11/2022	0.0	0.0	0.0	0.0	0.0				
24/11/2022	0.0	0.0	0.0	0.0	0.0				
25/11/2022	0.0	0.0	0.0	0.0	0.0				
26/11/2022	0.0	0.0	0.0	0.0	0.0				
27/11/2022	0.0	0.0	0.0	0.0	0.0				
28/11/2022	0.0	0.0	0.0	0.0	0.0				

Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receicing environment (ML)	pH	EC	TSS	Oil and Grease
29/11/2022	0.0	0.0	0.0	0.0	0.0				
30/11/2022	1	0.1	0.0	0.0	0.0				
1/12/2022	0.0	0.0	0.0	0.0	0.0				
2/12/2022	0.0	0.0	0.0	0.0	0.0				
3/12/2022	0.0	0.0	0.0	0.0	0.0				
4/12/2022	0.0	0.0	0.0	0.0	0.0				
5/12/2022	0.0	0.0	0.0	0.0	0.0				
6/12/2022	0.0	0.0	0.0	0.0	0.0				
7/12/2022	0.0	0.0	0.0	0.0	0.0				
8/12/2022	0.0	0.0	0.0	0.0	0.0				
9/12/2022	0.0	0.0	0.0	0.0	0.0				
10/12/2022	0.0	0.0	0.0	0.0	0.0				
11/12/2022	0.0	0.0	0.0	0.0	0.0				
12/12/2022	14	0.9	0.0	0.0	0.0				
13/12/2022	0.0	0.0	0.0	0.0	0.0				
14/12/2022	0.0	0.0	0.0	0.0	0.0				
15/12/2022	0.0	0.0	0.0	0.0	0.0				
16/12/2022	0.0	0.0	0.0	0.0	0.0				
17/12/2022	0.0	0.0	0.0	0.0	0.0				
18/12/2022	0.0	0.0	0.0	0.0	0.0				
19/12/2022	0.0	0.0	0.0	0.0	0.0				
20/12/2022	0.0	0.0	0.0	0.0	0.0				
21/12/2022	0.0	0.0	0.0	0.0	0.0				
22/12/2022	0.0	0.0	0.0	0.0	0.0				
23/12/2022	1.4	0.0	0.0	0.0	0.0				
24/12/2022	0.4	0.0	0.0	0.0	0.0				
25/12/2022	0.2	0.0	0.0	0.0	0.0				
26/12/2022	0.4	0.0	0.0	0.0	0.0				
27/12/2022	0.0	0.0	0.0	0.0	0.0				
28/12/2022	0.0	0.0	0.0	0.0	0.0				
29/12/2022	0.0	0.0	0.0	0.0	0.0				
30/12/2022	0.0	0.0	0.0	0.0	0.0				
31/12/2022	0.0	0.0	0.0	0.0	0.0				

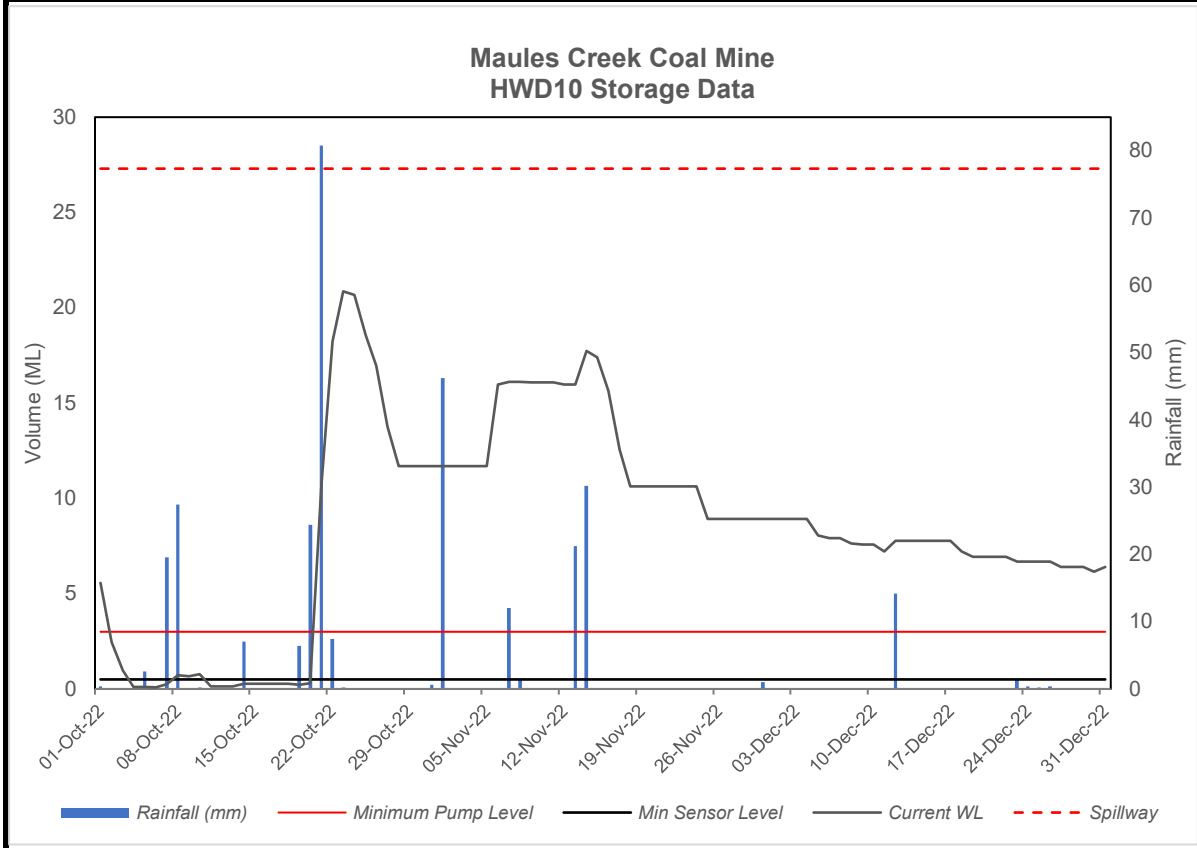
Data range of report	1/10/2022 to 31/12/2022	Rainfall Depth (mm)	306

Dam Name **HWD10**

Latest field data				ML
pH		6.9	Minimum sensor level	0.5
EC	us/cm	100	Minimum pump level	3.0
TSS	mg/L	62	Spillway	27.3
OG	mg/L	<5	Current level	6.4

Notes

38.2 ML of inflows compared to 31.9 ML pumped to the receiving environment, 7.5 ML from September. Pumping ceased in November due to pH below release limits, caused by low pH runoff from the clean catchment.



Latest Photo - 24/01/2023

Quarterly data									
Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC	TSS	Oil and Grease
1/10/2022	0.4	0.0	2.9	0.0	2.9				
2/10/2022	0.0	0.0	3.1	0.0	3.1				
3/10/2022	0.0	0.0	1.5	0.0	1.5				
4/10/2022	0.0	0.0	0.0	0.0	0.0				
5/10/2022	2.6	0.0	0.0	0.0	0.0				
6/10/2022	0.2	0.0	0.0	0.0	0.0				
7/10/2022	19.6	0.0	0.0	0.0	0.0				
8/10/2022	27.4	0.3	0.0	0.0	0.0				
9/10/2022	0.0	0.4	0.0	0.0	0.0				
10/10/2022	0.2	1.4	0.8	0.0	0.8	6.8	124	66	<5
11/10/2022	0.0	0.0	0.7	0.0	0.7				
12/10/2022	0.0	0.0	0.0	0.0	0.0				
13/10/2022	0.0	0.0	0.4	0.0	0.4				
14/10/2022	7.0	0.0	0.0	0.0	0.0				
15/10/2022	0.0	0.0	0.0	0.0	0.0				
16/10/2022	0.0	0.0	0.0	0.0	0.0				
17/10/2022	0.0	0.0	0.0	0.0	0.0				
18/10/2022	0.0	0.0	0.0	0.0	0.0				
19/10/2022	6.4	0.0	0.0	0.0	0.0				
20/10/2022	24.4	0.0	0.0	0.0	0.0				
21/10/2022	80.8	11.5	0.7	0.0	0.7	7.2	120	130	<5
22/10/2022	7.4	8.9	1.3	0.0	1.3				
23/10/2022	0.2	4.4	1.8	0.0	1.8				
24/10/2022	0.0	1.3	1.5	0.0	1.5	6.6	100	32	<10
25/10/2022	0.0	1.0	3.1	0.0	3.1				
26/10/2022	0.0	0.0	1.2	0.0	1.2				
27/10/2022	0.0	0.0	2.4	0.0	2.4				
28/10/2022	0.0	0.0	1.6	0.0	1.6				
29/10/2022	0.0	0.0	0.0	0.0	0.0				
30/10/2022	0.0	0.0	0.0	0.0	0.0				
31/10/2022	0.6	0.0	0.0	0.0	0.0				
1/11/2022	46.2	4.4	0.0	0.0	0.5	6.5	100	104	<5
2/11/2022	0.0	0.0	0.5	0.0	0.0	6.2	98	80	<5
3/11/2022	0.0	0.0	0.0	0.0	0.0				
4/11/2022	0.0	0.0	0.0	0.0	0.0				
5/11/2022	0.0	0.0	0.0	0.0	0.0				
6/11/2022	0.0	0.0	0.0	0.0	0.0				
7/11/2022	12.0	0.2	0.0	0.0	0.0				
8/11/2022	1.6	0.0	0.0	0.0	0.0				
9/11/2022	0.0	0.0	0.0	0.0	0.0				
10/11/2022	0.0	0.0	0.0	0.0	0.0				
11/11/2022	0.0	0.0	0.0	0.0	0.0				
12/11/2022	0.0	0.0	0.0	0.0	0.0				
13/11/2022	21.2	0.0	0.0	0.0	0.0				
14/11/2022	30.2	1.9	0.2	0.0	0.2	6.9	100	62	<5
15/11/2022	0.0	1.9	2.2	0.0	2.2				
16/11/2022	0.0	0.0	1.8	0.0	1.8				
17/11/2022	0.0	0.0	0.4	0.0	0.4				
18/11/2022	0.0	0.0	3.6	0.0	3.6				
19/11/2022	0.0	0.0	0.2	0.0	0.2				
20/11/2022	0.0	0.0	0.0	0.0	0.0				
21/11/2022	0.0	0.0	0.0	0.0	0.0	6.4	110	30	<5
22/11/2022	0.0	0.0	0.0	0.0	0.0				
23/11/2022	0.0	0.0	0.0	0.0	0.0				
24/11/2022	0.0	0.0	0.0	0.0	0.0				
25/11/2022	0.0	0.0	0.0	0.0	0.0				
26/11/2022	0.0	0.0	0.0	0.0	0.0				
27/11/2022	0.0	0.0	0.0	0.0	0.0				
28/11/2022	0.0	0.0	0.0	0.0	0.0				

Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receicing environment (ML)	pH	EC	TSS	Oil and Grease
29/11/2022	0.0	0.0	0.0	0.0	0.0				
30/11/2022	1.0	0.0	0.0	0.0	0.0				
1/12/2022	0.0	0.0	0.0	0.0	0.0				
2/12/2022	0.0	0.0	0.0	0.0	0.0				
3/12/2022	0.0	0.0	0.0	0.0	0.0				
4/12/2022	0.0	0.0	0.0	0.0	0.0				
5/12/2022	0.0	0.0	0.0	0.0	0.0				
6/12/2022	0.0	0.0	0.0	0.0	0.0				
7/12/2022	0.0	0.0	0.0	0.0	0.0				
8/12/2022	0.0	0.0	0.0	0.0	0.0				
9/12/2022	0.0	0.0	0.0	0.0	0.0				
10/12/2022	0.0	0.0	0.0	0.0	0.0				
11/12/2022	0.0	0.0	0.0	0.0	0.0				
12/12/2022	14.2	0.6	0.0	0.0	0.0				
13/12/2022	0.0	0.0	0.0	0.0	0.0				
14/12/2022	0.0	0.0	0.0	0.0	0.0				
15/12/2022	0.0	0.0	0.0	0.0	0.0				
16/12/2022	0.0	0.0	0.0	0.0	0.0				
17/12/2022	0.0	0.0	0.0	0.0	0.0				
18/12/2022	0.0	0.0	0.0	0.0	0.0				
19/12/2022	0.0	0.0	0.0	0.0	0.0				
20/12/2022	0.0	0.0	0.0	0.0	0.0				
21/12/2022	0.0	0.0	0.0	0.0	0.0				
22/12/2022	0.0	0.0	0.0	0.0	0.0				
23/12/2022	1.4	0.0	0.0	0.0	0.0				
24/12/2022	0.4	0.0	0.0	0.0	0.0				
25/12/2022	0.2	0.0	0.0	0.0	0.0				
26/12/2022	0.4	0.0	0.0	0.0	0.0				
27/12/2022	0.0	0.0	0.0	0.0	0.0				
28/12/2022	0.0	0.0	0.0	0.0	0.0				
29/12/2022	0.0	0.0	0.0	0.0	0.0				
30/12/2022	0.0	0.0	0.0	0.0	0.0				
31/12/2022	0.0	0.0	0.0	0.0	0.0				

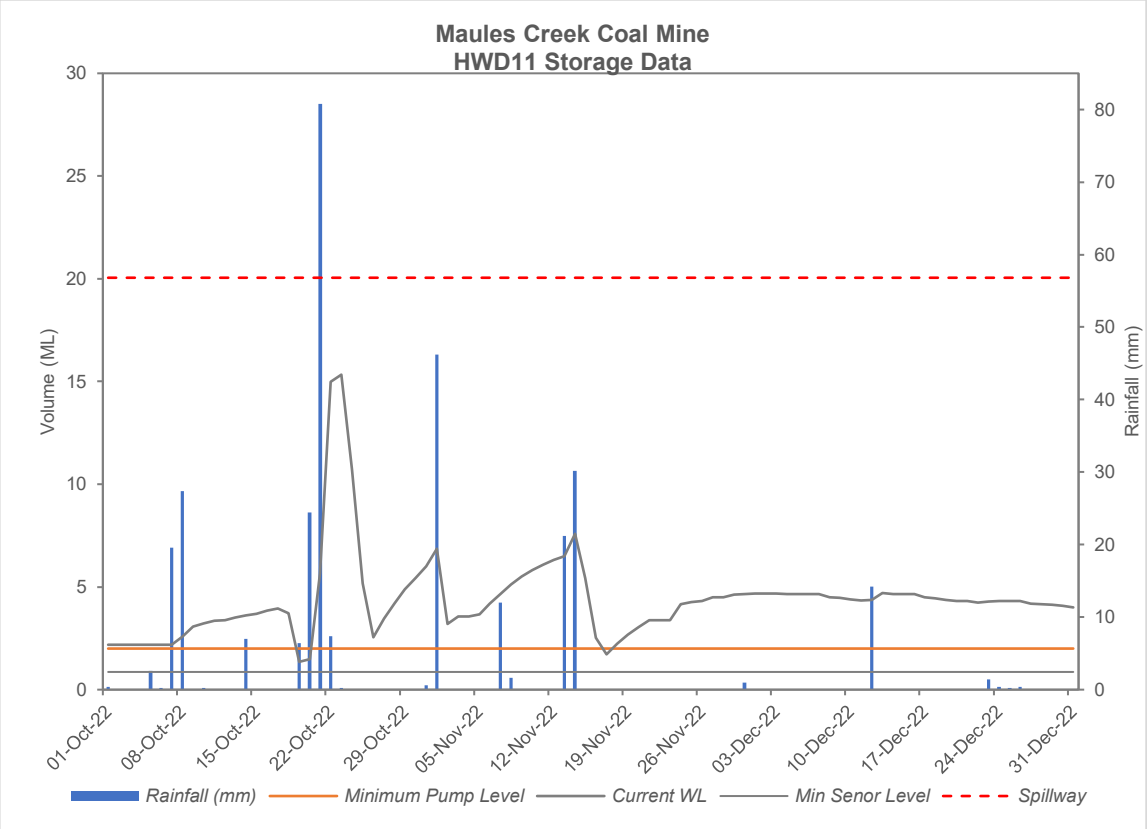
Data range of report	1/10/2022 to 31/12/2022	Rainfall Depth (mm)	306

Dam Name **HWD11**

Latest field data				ML
pH		6.92	Minimum sensor level	0.9
EC	us/cm	160	Minimum pump level	2.0
TSS	mg/L	109	Spillway	20.1
OG	mg/L	<5	Current level	4.0

Notes

43.6 ML of inflows compared to 35.9 ML pumped to the receiving environment.



Latest Photo - 24/01/2023

Quarterly data									
Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC (µS/cm)	TSS	Oil and Grease
1/10/2022	0.4	0.0	0.0	0.0	0.0				
2/10/2022	0.0	0.0	0.0	0.0	0.0				
3/10/2022	0.0	0.0	0.0	0.0	0.0				
4/10/2022	0.0	0.0	0.0	0.0	0.0				
5/10/2022	2.6	0.0	0.0	0.0	0.0				
6/10/2022	0.2	0.0	0.0	0.0	0.0				
7/10/2022	19.6	2.2	0.0	0.0	0.0				
8/10/2022	27.4	0.4	0.0	0.0	0.0				
9/10/2022	0.0	0.5	0.0	0.0	0.0				
10/10/2022	0.2	0.2	0.0	0.0	0.0	6.9	166	34	<5
11/10/2022	0.0	0.0	0.0	0.0	0.0				
12/10/2022	0.0	0.0	0.0	0.0	0.0	7.1	170	13	<10
13/10/2022	0.0	0.0	0.0	0.0	0.0				
14/10/2022	7.0	0.1	0.0	0.0	0.0				
15/10/2022	0.0	0.0	0.0	0.0	0.0				
16/10/2022	0.0	0.0	0.0	0.0	0.0				
17/10/2022	0.0	0.0	0.0	0.0	0.0				
18/10/2022	0.0	0.0	2.0	0.0	2.0	7.2	169	14	<5
19/10/2022	6.4	0.0	0.0	0.0	0.0				
20/10/2022	24.4	0.1	0.0	0.0	0.0				
21/10/2022	80.8	7.3	3.1	0.0	3.1	7.3	141	64	<5
22/10/2022	7.4	14.3	5.0	0.0	5.0				
23/10/2022	0.2	5.3	5.0	0.0	5.0				
24/10/2022	0.0	0.1	4.7	0.0	4.7	6.9	110	34	<10
25/10/2022	0.0	0.0	4.8	0.0	4.8				
26/10/2022	0.0	0.0	0.5	0.0	0.5				
27/10/2022	0.0	0.9	0.0	0.0	0.0				
28/10/2022	0.0	0.8	0.0	0.0	0.0				
29/10/2022	0.0	0.7	0.0	0.0	0.0				
30/10/2022	0.0	0.5	0.0	0.0	0.0				
31/10/2022	0.6	0.6	0.0	0.0	0.0				
1/11/2022	46.2	2.7	1.8	0.0	1.8	7.0	130	118	<5
2/11/2022	0.0	0.0	2.0	0.0	2.0				
3/11/2022	0.0	0.0	0.0	0.0	0.0				
4/11/2022	0.0	0.0	0.7	0.0	0.7				
5/11/2022	0.0	0.0	0.0	0.0	0.0				
6/11/2022	0.0	0.0	0.0	0.0	0.0				
7/11/2022	12.0	0.5	0.0	0.0	0.0				
8/11/2022	1.6	0.5	0.0	0.0	0.0				
9/11/2022	0.0	0.0	0.0	0.0	0.0				
10/11/2022	0.0	0.0	0.0	0.0	0.0				
11/11/2022	0.0	0.0	0.0	0.0	0.0				
12/11/2022	0.0	0.0	0.0	0.0	0.0				
13/11/2022	21.2	0.2	0.0	0.0	0.0				
14/11/2022	30.2	2.1	1.0	0.0	1.0	6.9	160	109	<5
15/11/2022	0.0	0.5	2.7	0.0	2.7				
16/11/2022	0.0	0.0	2.6	0.0	2.6				
17/11/2022	0.0	0.0	0.0	0.0	0.0				
18/11/2022	0.0	0.5	0.0	0.0	0.0				
19/11/2022	0.0	0.4	0.0	0.0	0.0				
20/11/2022	0.0	0.4	0.0	0.0	0.0				
21/11/2022	0.0	0.3	0.0	0.0	0.0				
22/11/2022	0.0	0.0	0.0	0.0	0.0				
23/11/2022	0.0	0.0	0.0	0.0	0.0				
24/11/2022	0.0	0.8	0.0	0.0	0.0				
25/11/2022	0.0	0.1	0.0	0.0	0.0				
26/11/2022	0.0	0.1	0.0	0.0	0.0				
27/11/2022	0.0	0.2	0.0	0.0	0.0				
28/11/2022	0.0	0.0	0.0	0.0	0.0				

Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC	TSS	Oil and Grease
29/11/2022	0.0	0.1	0.0	0.0	0.0				
30/11/2022	0.0	0.0	0.0	0.0	0.0				
1/12/2022	0.0	0.0	0.0	0.0	0.0				
2/12/2022	0.0	0.0	0.0	0.0	0.0				
3/12/2022	0.0	0.0	0.0	0.0	0.0				
4/12/2022	0.0	0.0	0.0	0.0	0.0				
5/12/2022	0.0	0.0	0.0	0.0	0.0				
6/12/2022	0.0	0.0	0.0	0.0	0.0				
7/12/2022	0.0	0.0	0.0	0.0	0.0				
8/12/2022	0.0	0.0	0.0	0.0	0.0				
9/12/2022	0.0	0.0	0.0	0.0	0.0				
10/12/2022	0.0	0.0	0.0	0.0	0.0				
11/12/2022	0.0	0.0	0.0	0.0	0.0				
12/12/2022	14.2	0.3	0.0	0.0	0.0				
13/12/2022	0.0	0.0	0.0	0.0	0.0				
14/12/2022	0.0	0.0	0.0	0.0	0.0				
15/12/2022	0.0	0.0	0.0	0.0	0.0				
16/12/2022	0.0	0.0	0.0	0.0	0.0				
17/12/2022	0.0	0.0	0.0	0.0	0.0				
18/12/2022	0.0	0.0	0.0	0.0	0.0				
19/12/2022	0.0	0.0	0.0	0.0	0.0				
20/12/2022	0.0	0.0	0.0	0.0	0.0				
21/12/2022	0.0	0.0	0.0	0.0	0.0				
22/12/2022	0.0	0.0	0.0	0.0	0.0				
23/12/2022	1.4	0.1	0.0	0.0	0.0				
24/12/2022	0.4	0.0	0.0	0.0	0.0				
25/12/2022	0.2	0.0	0.0	0.0	0.0				
26/12/2022	0.4	0.0	0.0	0.0	0.0				
27/12/2022	0.0	0.0	0.0	0.0	0.0				
28/12/2022	0.0	0.0	0.0	0.0	0.0				
29/12/2022	0.0	0.0	0.0	0.0	0.0				
30/12/2022	0.0	0.0	0.0	0.0	0.0				
31/12/2022	0.0	0.0	0.0	0.0	0.0				

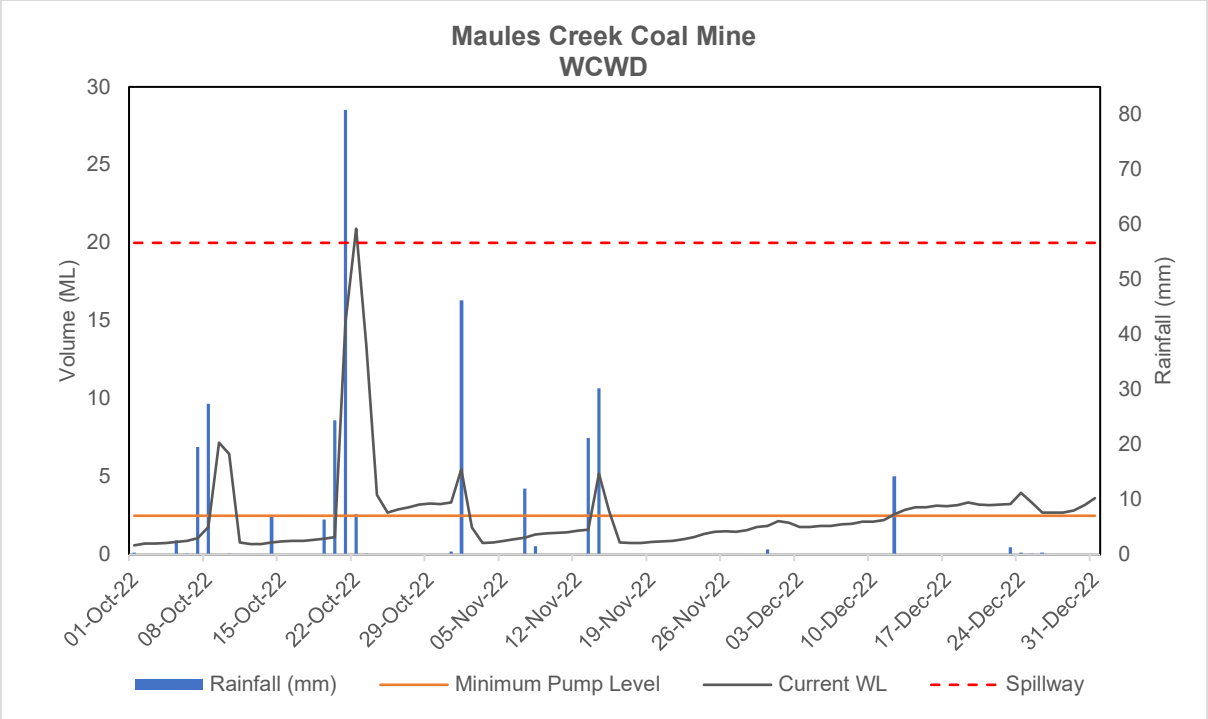
Data range of report	1/10/2022 to 31/12/2022	Rainfall Depth (mm)	306

Dam Name **WCWD**

Latest field data				ML
pH		8.1	Minimum sensor level	0.4
EC	us/cm	940	Minimum pump level	3.8
TSS	mg/L	80	Spillway	20.0
OG	mg/L	<5	Current level	3.0

Notes

67.1 ML of inflows compared to 64.5 ML pumped to the receiving environment.



Latest Photo - 24/01/2023

Quarterly data									
Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receiving environment (ML)	pH	EC	TSS	Oil and Grease
1/10/2022	0.4	0.0	0.0	0.0	0.0				
2/10/2022	0.0	0.0	0.0	0.0	0.0				
3/10/2022	0.0	0.0	0.0	0.0	0.0				
4/10/2022	0.0	0.0	0.0	0.0	0.0				
5/10/2022	2.6	0.1	0.0	0.0	0.0				
6/10/2022	0.2	0.1	0.0	0.0	0.0				
7/10/2022	19.6	0.2	0.0	0.0	0.0				
8/10/2022	27.4	3.2	0.0	0.0	0.0				
9/10/2022	0.0	5.4	0.0	0.0	0.0				
10/10/2022	0.2	0.0	0.0	0.0	0.0	7.8	637	32	<5
11/10/2022	0.0	0.0	8.7	0.0	8.7				
12/10/2022	0.0	0.0	0.0	0.0	0.0				
13/10/2022	0.0	0.0	0.0	0.0	0.0				
14/10/2022	7.0	0.0	0.0	0.0	0.0				
15/10/2022	0.0	0.0	0.0	0.0	0.0				
16/10/2022	0.0	0.0	0.0	0.0	0.0				
17/10/2022	0.0	0.0	0.0	0.0	0.0				
18/10/2022	0.0	0.1	0.0	0.0	0.0				
19/10/2022	6.4	0.1	0.0	0.0	0.0				
20/10/2022	24.4	0.1	0.0	0.0	0.0				
21/10/2022	80.8	20.4	6.6	0.0	6.6	7.7	963	88	<5
22/10/2022	7.4	12.5	6.6	0.0	6.6				
23/10/2022	0.2	0.0	6.6	0.0	6.6				
24/10/2022	0.0	0.0	6.6	0.0	6.6	7.9	360	188	<10
25/10/2022	0.0	0.0	6.6	0.0	6.6				
26/10/2022	0.0	0.0	0.0	0.0	0.0				
27/10/2022	0.0	0.0	0.0	0.0	0.0				
28/10/2022	0.0	0.0	0.0	0.0	0.0				
29/10/2022	0.0	0.0	0.0	0.0	0.0				
30/10/2022	0.0	0.0	0.0	0.0	0.0				
31/10/2022	0.6	0.1	0.0	0.0	0.0				
1/11/2022	46.2	11.5	11.5	0.0	11.5	8.3	660	132	<5
2/11/2022	0.0	0.3	0.3	0.0	0.3				
3/11/2022	0.0	0.0	0.0	0.0	0.0				
4/11/2022	0.0	0.0	0.0	0.0	0.0				
5/11/2022	0.0	0.0	0.0	0.0	0.0				
6/11/2022	0.0	0.0	0.0	0.0	0.0				
7/11/2022	12.0	0.1	0.1	0.0	0.1				
8/11/2022	1.6	0.2	0.2	0.0	0.2				
9/11/2022	0.0	0.1	0.1	0.0	0.1				
10/11/2022	0.0	0.0	0.0	0.0	0.0				
11/11/2022	0.0	0.0	0.0	0.0	0.0				
12/11/2022	0.0	0.1	0.1	0.0	0.1				
13/11/2022	21.2	2.6	2.6	0.0	2.6				
14/11/2022	30.2	8.1	8.1	0.0	8.1	8.1	940	80	<5
15/11/2022	0.0	0.0	0.0	0.0	0.0				
16/11/2022	0.0	0.0	0.0	0.0	0.0				
17/11/2022	0.0	0.0	0.0	0.0	0.0				
18/11/2022	0.0	0.0	0.0	0.0	0.0				
19/11/2022	0.0	0.0	0.0	0.0	0.0				
20/11/2022	0.0	0.0	0.0	0.0	0.0				
21/11/2022	0.0	0.0	0.0	0.0	0.0				
22/11/2022	0.0	0.0	0.0	0.0	0.0				
23/11/2022	0.0	0.0	0.0	0.0	0.0				
24/11/2022	0.0	0.0	0.0	0.0	0.0				
25/11/2022	0.0	0.0	0.0	0.0	0.0				
26/11/2022	0.0	0.0	0.0	0.0	0.0				
27/11/2022	0.0	0.0	0.0	0.0	0.0				
28/11/2022	0.0	0.0	0.0	0.0	0.0				

Date	Rainfall (mm)	Inflow (ML)	Pumped (ML)	Spilled (ML)	Receicing environment (ML)	pH	EC	TSS	Oil and Grease
29/11/2022	0.0	0.0	0.0	0.0	0.0				
30/11/2022	1.0	0.0	0.0	0.0	0.0				
1/12/2022	0.0	0.3	0.0	0.0	0.0				
2/12/2022	0.0	0.0	0.0	0.0	0.0				
3/12/2022	0.0	0.0	0.0	0.0	0.0				
4/12/2022	0.0	0.0	0.0	0.0	0.0				
5/12/2022	0.0	0.0	0.0	0.0	0.0				
6/12/2022	0.0	0.0	0.0	0.0	0.0				
7/12/2022	0.0	0.0	0.0	0.0	0.0				
8/12/2022	0.0	0.0	0.0	0.0	0.0				
9/12/2022	0.0	0.0	0.0	0.0	0.0				
10/12/2022	0.0	0.0	0.0	0.0	0.0				
11/12/2022	14.2	0.0	0.0	0.0	0.0				
12/12/2022	0.0	0.4	0.0	0.0	0.0				
13/12/2022	0.0	0.3	0.0	0.0	0.0				
14/12/2022	0.0	0.0	0.0	0.0	0.0				
15/12/2022	0.0	0.0	0.0	0.0	0.0				
16/12/2022	0.0	0.0	0.0	0.0	0.0				
17/12/2022	0.0	0.0	0.0	0.0	0.0				
18/12/2022	0.0	0.0	0.0	0.0	0.0				
19/12/2022	0.0	0.0	0.0	0.0	0.0				
20/12/2022	0.0	0.0	0.0	0.0	0.0				
21/12/2022	0.0	0.0	0.0	0.0	0.0				
22/12/2022	1.4	0.0	0.0	0.0	0.0				
23/12/2022	0.4	0.0	0.0	0.0	0.0				
24/12/2022	0.2	0.7	0.0	0.0	0.0				
25/12/2022	0.4	0.0	0.0	0.0	0.0				
26/12/2022	0.0	0.0	0.0	0.0	0.0				
27/12/2022	0.0	0.0	0.0	0.0	0.0				
28/12/2022	0.0	0.0	0.0	0.0	0.0				
29/12/2022	0.0	0.0	0.0	0.0	0.0				
30/12/2022	0.0	0.0	0.0	0.0	0.0				
31/12/2022	0.0	0.0	0.0	0.0	0.0				

Data range of report			1/10/2022 to 31/12/2022			Rainfall Depth (mm)		306
Parameter	Unit	Tigger	Upstream					
			10/10/2022	18/10/2022	21/10/2022	1/11/2022	14/11/2022	
Discharges			WCWD, HWD10/11	HWD11	WCWD, HWD10/11	WCWD, HWD09/10/11	WCWD, HWD09/10/11	
pH	pH	6.5-8.3	7.55	7.63	7.63	7.23	7.26	
EC	µS/cm	250	174	211	158	130	150	
TDS	mg/L	300	224	157	229	62.9	64.5	
Oil and Grease	mg/L	10	<5	<5	<5	<5	<5	
Turbidity	NTU	6 to 50	62.5	25.3	205	110	140	
TSS	mg/L	80	14	<5	181	70	89	
Alkalinity - Bicabonate	mg/L	124	67	90	56	47	56	
Alkalinity - Carbonate	mg/L	1	<1	<1	<1	<5	<5	
Alkalinity - Hydroxide	mg/L	165	<1	<1	<1	<5	<5	
Alkalinity - Total	mg/L	132	67	90	56	47	56	
Aluminium	mg/L	3.3	0.23	0.07	0.27	3.4	4.6	
Ammonia	mg/L	0.05	0.02	<0.01	0.09	0.05	0.011	
Arsenic (As)	mg/L	0.013	<0.001	<0.001	<0.001	<0.001	0.001	
Barium (Ba)	mg/L	1	0.101	0.12	0.057	0.085	0.11	
Boron	mg/L	0.05	<0.05	<0.05	<0.05	0.02	0.03	
Bromine	mg/L	0.2	<0.1	<0.1	<0.1	0.072	0.066	
Cadmium (Cd)	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium (Ca)	mg/L	20	12	16	10	9.4	12	
Chloride (Cl)	mg/L	20	12	15	11	14	10	
Chromium (Cr)	mg/L	0.006	<0.001	<0.001	<0.001	0.002	0.002	
Copper (Cu)	mg/L	0.007	<0.001	<0.001	0.002	0.002	0.002	
Iron (Fe)	mg/L	10	0.21	0.05	0.13	1.4	1.9	
Lead (Pb)	mg/L	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	0.03	<0.001	0.001	<0.001	0.002	0.003	
Magnesium (Mg)	mg/L	10	3	4	3	3	4	
Manganese (Mn)	mg/L	0.1	0.008	0.014	0.011	0.015	0.019	
Nickel (Ni)	mg/L	0.011	0.001	0.002	0.002	0.005	0.004	
Nitrate as N	mg/L	0.7	<0.01	<0.01	0.08	0.079	0.04	
Nitrite as N	mg/L	1	<0.01	<0.01	<0.01	<0.005	<0.005	
Potassium	mg/L	13	6	7	9	7.8	9.4	
Ribidium	mg/L	0.008	0.002	0.002	0.003	0.007	0.008	
Selenium	mg/L	0.01	<0.01	<0.01	<0.01	<0.001	<0.001	
Silver	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Sodium (Na)	mg/L	30	15	21	14	11	12	
Strontium	mg/L	0.25	0.191	0.22	0.109	0.15	0.2	
Sulphate (SO_4)	mg/L	10	<1	<10	<10	2	2	
Total nitrogen (Total N)	mg/L	1.5	1.3	0.7	2.3	0.9	0.9	
Total phosphorus (Total P)	mg/L	0.3	0.12	0.06	0.66	0.2	0.1	
Zinc (Zn)	mg/L	0.03	<0.005	<0.005	0.006	0.006	0.006	

Notes

Upstream samples are not impacted by the mine

Data range of report			1/10/2022 to 31/12/2022			Rainfall Depth (mm)		306
Parameter	Unit	Tigger	Downstream					
			10/10/2022	18/10/2022	21/10/2022	1/11/2022	14/11/2022	
Discharges			WCWD, HWD10/11	HWD11	WCWD, HWD10/11	WCWD, HWD09/10/11	WCWD, HWD09/10/12	
pH	pH	6.5-8.3	7.36	7.84	7.47	7.32	7.28	
EC	µS/cm	250	181	251	110	140	130	
TDS	mg/L	300	232	182	190	62.9	62.5	
Oil and Grease	mg/L	10	<5	<5	<5	<5	<5	
Turbidity	NTU	6 to 50	64.9	15.2	166	110	130	
TSS	mg/L	80	10	<5	88	80	89	
Alkalinity - Bicabonate	mg/L	124	71	109	42	45	54	
Alkalinity - Carbonate	mg/L	1	<1	<1	<1	<5	<5	
Alkalinity - Hydroxide	mg/L	165	<1	<1	<1	<5	<5	
Alkalinity - Total	mg/L	132	71	109	42	45	54	
Aluminium	mg/L	3.3	0.28	0.07	0.27	3.8	2.8	
Ammonia	mg/L	0.05	0.01	<0.01	<0.01	0.052	0.014	
Arsenic (As)	mg/L	0.013	<0.001	<0.001	<0.001	<0.001	0.001	
Barium (Ba)	mg/L	1	0.094	0.124	0.052	0.082	0.094	
Boron	mg/L	0.05	<0.05	<0.05	<0.05	0.02	0.03	
Bromine	mg/L	0.2	<0.1	<0.1	<0.1	0.067	0.054	
Cadmium (Cd)	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium (Ca)	mg/L	20	12	20	8	9.4	11	
Chloride (Cl)	mg/L	20	13	17	6	14	4	
Chromium (Cr)	mg/L	0.006	<0.001	<0.001	<0.001	0.002	0.002	
Copper (Cu)	mg/L	0.007	<0.001	<0.001	0.002	0.002	0.002	
Iron (Fe)	mg/L	10	0.21	0.05	0.16	1.5	1.2	
Lead (Pb)	mg/L	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	0.03	<0.001	0.003	<0.001	0.002	0.002	
Magnesium (Mg)	mg/L	10	4	6	2	3	3	
Manganese (Mn)	mg/L	0.1	0.008	0.016	0.012	0.016	0.019	
Nickel (Ni)	mg/L	0.011	0.002	0.002	0.002	0.005	0.004	
Nitrate as N	mg/L	0.7	0.04	0.02	0.08	0.077	0.077	
Nitrite as N	mg/L	1	<0.01	<0.01	<0.01	<0.005	<0.005	
Potassium	mg/L	13	6	9	7	7.8	8.9	
Ribidium	mg/L	0.008	0.002	0.003	0.003	0.007	0.008	
Selenium	mg/L	0.01	<0.01	<0.01	<0.01	<0.001	<0.001	
Silver	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Sodium (Na)	mg/L	30	16	25	9	11	9.5	
Strontium	mg/L	0.25	0.178	0.253	0.093	0.16	0.16	
Sulphate (SO_4)	mg/L	10	<10	<10	<10	2	2	
Total nitrogen (Total N)	mg/L	1.5	1.3	0.6	1.7	1	1	
Total phosphorus (Total P)	mg/L	0.3	0.15	0.09	0.3	0.2	0.2	
Zinc (Zn)	mg/L	0.03	<0.005	<0.005	<0.005	0.005	0.008	

Notes

Elevated EC - 18/10/2022 EC from discharge less than RE, no impact
Elevated Tubidity - similar to US, no impact
Elevated TSS - similar to US, no impact
Elevated Aluminium - similar to US, no impact
Elevated Ammonia - similar to US, no impact
Elevated Calcium - Discharge calcium lower than US and DS, no impacts
Elevated Ribidium - similar to US, no impact
Elevated Nitrogen- similar to US, no impact
Elevated Phosphorus - similar to US, no impact

Data range of report			1/07/2022 to 30/09/2022			Rainfall Depth (mm)		307.8
Parameter	Unit	Tigger	LDP - HWDs (ECWDP)					
			10/10/2022	18/10/2022	21/10/2022	24/11/2022	1/11/2022	14/11/2022
Discharges			Yes	Yes	Yes	Yes	Yes	Yes
pH	pH	6.5-8.3	6.86	7.12	6.55	6.83	7.17	7.3
EC	µS/cm	250	132	169	114	100	170	140
TDS	mg/L	300	482	506	447	44	77	61.9
Oil and Grease	mg/L	10	<5	<5	<5	<10	<5	<5
Turbidity	NTU	6 to 50	307	233	433	239	320	240
TSS	mg/L	80	21	<5	112	22	157	51
Alkalinity - Bicabonate	mg/L	124	24	32	43	21	34	31
Alkalinity - Carbonate	mg/L	1	<1	<1	<1	<5	<5	<5
Alkalinity - Hydroxide	mg/L	165	<1	<1	<1	<5	<5	<5
Alkalinity - Total	mg/L	132	24	32	43	21	34	31
Aluminium	mg/L	3.3	0.88	0.4	0.9	14	12	10
Ammonia	mg/L	0.05	0.06	<0.01	0.05	0.02	0.061	0.03
Arsenic (As)	mg/L	0.013	<0.001	<0.001	<0.001	0.002	0.002	0.002
Barium (Ba)	mg/L	1	0.096	0.1	0.084	0.1	0.11	0.11
Boron	mg/L	0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.02
Bromine	mg/L	0.2	<0.1	<0.1	0.1	0.072	0.072	0.087
Cadmium (Cd)	mg/L	0.0002	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Calcium (Ca)	mg/L	20	3	9	6	4	5.6	5.6
Chloride (Cl)	mg/L	20	18	20	13	11	29	18
Chromium (Cr)	mg/L	0.006	<0.001	<0.001	<0.001	0.006	0.005	0.005
Copper (Cu)	mg/L	0.007	0.001	0.002	0.003	0.005	0.004	0.004
Iron (Fe)	mg/L	10	0.44	0.27	0.41	4	3.9	2.9
Lead (Pb)	mg/L	0.0034	<0.001	<0.001	<0.001	0.003	0.002	0.002
Lithium	mg/L	0.03	0.002	0.001	<0.001	0.007	0.006	0.005
Magnesium (Mg)	mg/L	10	2	4	3	2	3	3
Manganese (Mn)	mg/L	0.1	0.006	0.022	0.031	0.026	0.031	0.027
Nickel (Ni)	mg/L	0.011	0.004	0.004	0.005	0.009	0.008	0.008
Nitrate as N	mg/L	0.7	0.47	0.07	0.1	0.057	0.38	0.079
Nitrite as N	mg/L	1	0.02	0.01	<0.01	<0.005	0.008	<0.005
Potassium	mg/L	13	4	4	4	5	6	5.6
Ribidium	mg/L	0.008	0.004	0.003	0.003	0.019	0.018	0.015
Selenium	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001
Silver	mg/L	0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium (Na)	mg/L	30	20	20	14	11	19	18
Strontium	mg/L	0.25	0.044	0.101	0.071	0.066	0.096	0.092
Sulphate (SO_4)	mg/L	10	<10	18	<10	3	5	4
Total nitrogen (Total N)	mg/L	1.5	2.4	2.1	2.8	0.8	0.9	0.9
Total phosphorus (Total P)	mg/L	0.3	0.22	0.29	0.57	0.1	0.1	0.4
Zinc (Zn)	mg/L	0.03	<0.005	<0.005	0.01	0.013	0.014	0.017
Notes								

Data range of report			1/07/2022 to 30/09/2022			Rainfall Depth (mm)		307.8
Parameter	Unit	Tigger	LDP - WCWD					
			10/10/2022	18/10/2022	21/10/2022	24/10/2022	1/11/2022	14/11/2022
Discharges			Yes	No	Yes	Yes	Yes	Yes
pH	pH	6.5-8.3	7.77		7.91	7.75	8.09	7.29
EC	µS/cm	250	633		378	410	550	650
TDS	mg/L	300	448		374	162	250	280
Oil and Grease	mg/L	10	<5		<5	<10	<5	<5
Turbidity	NTU	6 to 50	61.8		270	103	150	110
TSS	mg/L	80	26		183	40	144	80
Alkalinity - Bicabonate	mg/L	124	160		121	150	170	170
Alkalinity - Carbonate	mg/L	1	<1		<1	<5	<5	<5
Alkalinity - Hydroxide	mg/L	165	<1		<1	<5	<5	<5
Alkalinity - Total	mg/L	132	160		121	150	170	170
Aluminium	mg/L	3.3	0.18		0.35	0.42	0.18	0.2
Ammonia	mg/L	0.05	0.03		0.03	0.022	0.088	0.019
Arsenic (As)	mg/L	0.013	<0.001		<0.001	<0.001	<0.001	<0.001
Barium (Ba)	mg/L	1	0.061		0.051	0.077	0.068	0.082
Boron	mg/L	0.05	<0.05		<0.05	0.005	0.06	0.06
Bromine	mg/L	0.2	0.1		0.1	0.14	0.26	0.34
Cadmium (Cd)	mg/L	0.0002	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Calcium (Ca)	mg/L	20	19		14	22	19	20
Chloride (Cl)	mg/L	20	74		33	35	67	75
Chromium (Cr)	mg/L	0.006	<0.001		<0.001	<0.001	<0.001	<0.001
Copper (Cu)	mg/L	0.007	<0.001		0.005	0.003	0.003	0.002
Iron (Fe)	mg/L	10	0.11		0.22	0.28	0.1	0.13
Lead (Pb)	mg/L	0.0034	<0.001		<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.03	0.002		<0.001	0.003	0.003	0.003
Magnesium (Mg)	mg/L	10	9		7	8.3	9.7	12
Manganese (Mn)	mg/L	0.1	0.003		0.005	0.034	0.017	0.014
Nickel (Ni)	mg/L	0.011	<0.001		0.002	0.001	0.001	0.001
Nitrate as N	mg/L	0.7	0.07		0.18	0.15	0.16	0.16
Nitrite as N	mg/L	1	<0.01		<0.01	<0.005	0.007	<0.005
Potassium	mg/L	13	3		5	5	4	4
Ribidium	mg/L	0.008	<0.001		0.001	0.001	<0.001	<0.001
Selenium	mg/L	0.01	<0.01		<0.01	<0.001	<0.001	<0.001
Silver	mg/L	0.001	<0.001		<0.001	<0.001	<0.001	<0.001
Sodium (Na)	mg/L	30	99		56	48	79	110
Strontium	mg/L	0.25	0.313		0.207	0.3	0.34	0.4
Sulphate (SO_4)	mg/L	10	40		21	12	33	44
Total nitrogen (Total N)	mg/L	1.5	1		2	0.7	0.6	0.6
Total phosphorus (Total P)	mg/L	0.3	0.21		0.58	0.2	0.2	0.2
Zinc (Zn)	mg/L	0.03	<0.005		0.013	0.001	0.001	0.002

Notes