

D. Summary of Water Quality Monitoring

**Table D1. Water quality at WRA
 May 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (17 May) (cm)	Water Level (30 May) (cm)
1	26.5	6.8	0.4	9.8	5.3	210	210
2	26.6	6.8	0.4	4.2	4.9	180	180
3	26.2	7.0	0.3	3.3	6.3	225	220
4	26.2	7.0	0.3	3.3	6.0	220	215

Jun 2022

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (15 Jun) (cm)	Water Level (29 Jun) (cm)
1	30.2	6.6	0.4	8.4	4.0	200	200
2	29.7	6.8	0.4	6.2	3.3	180	190
3	29.8	6.8	0.5	2.3	3.9	210	215
4	29.9	6.8	0.5	2.8	4.2	205	200

Jul 2022

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (4 Jul) (cm)	Water Level (19 Jul) (cm)
1	32.0	6.8	0.2	21.0	4.5	220	200
2	32.0	6.9	0.2	23.0	4.3	195	180
3	32.6	7.0	0.2	9.5	2.2	220	200
4	32.6	6.9	0.2	9.1	1.7	210	190

Aug 2022

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (9 Aug) (cm)	Water Level (25 Aug) (cm)
1	32.6	7.3	0.1	9.0	6.3	210	215
2	31.8	7.1	0.2	9.3	3.5	190	220
3	31.8	7.2	0.2	3.9	4.7	200	190
4	31.5	7.0	0.2	6.4	2.4	210	220

Sep 2022

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (15 Sep) (cm)	Water Level (30 Sep) (cm)
1	28.6	6.8	0.2	13.5	4.1	200	195
2	28.6	6.9	0.2	13.9	4.8	170	160
3	28.7	7.0	0.2	12.4	3.1	210	205
4	29.0	7.2	0.2	7.4	3.8	205	200

Oct 2022

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (5 Oct) (cm)	Water Level (29 Oct) (cm)
1	27.2	7.4	0.2	9.0	5.6	200	180
2	25.3	7.3	0.2	12.3	5.0	170	150
3	25.7	7.3	0.2	5.8	5.7	210	190
4	26.0	7.4	0.2	6.0	4.7	205	190

Action / Limit Level	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-

Notes: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached
 Additional water level monitoring was conducted

Table D2. Water quality monitoring (Laboratory Testing) at WRA

Oct 2022

Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
Cell 1-1	0.13	0.04	0.54	<0.01	11.0
Cell 1-2	0.15	0.05	0.60	<0.01	10.0
Cell 1-3	0.14	0.05	0.28	<0.01	5.0
Cell 2-1	0.10	0.04	0.12	<0.01	6.0
Cell 2-2	0.10	0.04	0.12	<0.01	6.0
Cell 2-3	0.09	0.04	0.10	<0.01	5.0
Cell 3-1	0.01	<0.01	0.11	<0.01	5.0
Cell 3-2	<0.01	<0.01	0.10	<0.01	6.0
Cell 3-3	0.02	<0.01	0.11	<0.01	5.0
Cell 4-1	<0.01	<0.01	0.07	<0.01	3.0
Cell 4-2	<0.01	<0.01	0.07	<0.01	3.0
Cell 4-3	0.03	<0.01	0.08	<0.01	3.0
Action Level	>3	>5	>5	-	-
Limit Level	>6	>10	>10	-	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached.
 The additional water samples for ex-situ laboratory analysis were collected on 14 October 2022.