

D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA
Nov 2024

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (12 Nov) (cm)	Water Level (14 Nov) (cm)	Water Level (26 Nov) (cm)
1	24.6	7.8	0.2	17.2	5.3	180	180	190
2	24.6	7.7	0.2	17.3	5.3	150	160	165
3	25.1	7.7	0.2	35.1	5.9	190	190	200
4	24.6	7.5	0.2	18.8	4.5	180	190	190

Dec 2024

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (2 Dec)	Water Level (cm) (30 Dec)
1	15.1	7.2	0.2	69.7	9.2	185	170
2	14.0	7.6	0.2	9.1	9.0	155	140
3	15.3	7.9	0.2	30.3	9.7	195	185
4	15.0	7.5	0.2	18.7	9.4	190	175

Jan 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (7 Jan)	Water Level (cm) (27 Jan)
1	16.2	7.2	0.2	63.4	7.7	170	160
2	15.7	7.5	0.2	24.5	7.9	140	130
3	15.9	7.8	0.2	65.5	9.4	185	180
4	16.4	7.8	0.2	19.6	9.7	180	170

Feb 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (4 Feb)	Water Level (cm) (28 Feb)
1	17.3	7.2	0.2	30.6	8.2	155	150
2	16.9	7.5	0.2	38.0	8.8	130	120
3	17.3	7.8	0.2	42.3	10.0	170	170
4	17.4	7.8	0.2	13.9	7.8	160	160

Mar 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (6 Mar)	Water Level (cm) (27 Mar)
1	24.2	7.4	0.2	181.2	8.4	145	145
2	25.5	7.9	0.2	46.9	8.9	120	115
3	25.6	7.8	0.2	59.0	8.6	165	160
4	24.5	7.7	0.2	18.8	8.9	160	155

Apr 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (1 Apr)	Water Level (cm) (22 Apr)
1	24.2	7.4	0.2	181.2	8.4	140	135
2	25.5	7.9	0.2	46.9	8.9	115	110
3	25.6	7.8	0.2	59.0	8.6	160	155
4	24.5	7.7	0.2	18.8	8.9	155	140

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

Apr 2025					
Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
Cell 1-1	0.19	<0.01	0.44	<0.01	20.0
Cell 1-2	0.25	0.02	0.43	<0.01	19.0
Cell 1-3	0.23	0.03	0.42	<0.01	20.0
Cell 2-1	0.26	0.03	0.36	0.02	24.0
Cell 2-2	0.18	0.03	0.36	<0.01	29.0
Cell 2-3	0.19	0.03	0.37	<0.01	30.0
Cell 3-1	0.08	0.02	0.05	0.02	<2.0
Cell 3-2	0.08	0.02	0.04	0.02	<2.0
Cell 3-3	0.08	0.02	0.04	0.02	<2.0
Cell 4-1	0.86	0.08	0.15	<0.01	8.0
Cell 4-2	0.91	0.06	0.14	<0.01	8.0
Cell 4-3	0.78	0.08	0.14	<0.01	9.0
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 16 April 2025.