

## D. Summary of Water Quality Monitoring

**Table D1. Water quality at WRA**

**Nov 2023**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (7 Nov) (cm)	Water Level (28 Nov) (cm)
1	21.1	7.1	0.3	11.1	8.1	180	170
2	20.6	7.8	0.3	6.4	8.8	170	160
3	21/5	7.9	0.3	9.0	8.8	215	210
4	21.6	7.8	0.3	2.2	7.0	210	200

**Dec 2023**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (12 Dec)	Water Level (cm) (29 Dec)
1	17.3	7.9	0.4	8.9	6.0	165	160
2	16.3	7.8	0.4	6.2	8.2	155	150
3	16.7	7.9	0.4	8.3	8.1	195	180
4	17.8	7.8	0.3	3.3	7.0	190	175

**Jan 2024**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (16 Jan)	Water Level (cm) (30 Jan)
1	21.6	7.9	0.4	46.8	7.7	150	<b>145</b>
2	20.5	7.8	0.4	17.2	8.0	<b>135</b>	<b>130</b>
3	20.9	7.9	0.4	34.7	7.4	185	175
4	20.5	7.9	0.3	3.2	6.8	160	160

**Feb 2024**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (9 Feb)	Water Level (cm) (27 Feb)
1	23.5	7.9	0.2	109.9	7.9	140	140
2	23.1	7.8	0.2	90.6	7.4	130	120
3	23.3	7.9	0.2	17.6	6.7	175	165
4	23.2	7.9	0.2	4.0	6.5	160	135

**Mar 2024**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (5 Mar)	Water Level (cm) (26 Mar)
1	24.2	7.6	0.2	82.5	9.7	135	135
2	24.0	7.8	0.2	63.4	9.8	120	115
3	24.3	7.9	0.2	122.8	9.4	165	160
4	24.2	7.5	0.2	15.2	6.9	120	135

**Apr 2024**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (9 Apr)	Water Level (cm) (30 Apr)
1	29.2	7.3	0.2	44.0	8.6	135	160
2	29.9	6.8	0.2	37.9	10.1	115	145
3	29.5	7.4	0.3	16.8	6.8	160	185
4	29.9	7.0	0.2	2.3	7.2	120	160

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 2024**

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 17 April 2024.