

## D. Summary of Water Quality Monitoring

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

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (3 Nov)	Water Level (cm) (26 Nov)
1	24.3	7.1	0.2	44.5	3.8	190	195
2	24.4	6.9	0.2	5.8	3.6	155	160
3	24.3	7.0	0.2	16.1	4.7	200	200
4	24.7	6.9	0.2	8.3	4.0	200	200

**Dec 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (3 Dec)	Water Level (cm) (21 Dec)
1	14.5	6.6	0.2	15.6	10.4	190	185
2	14.6	6.9	0.2	16.0	7.9	155	150
3	14.8	7.1	0.2	5.6	8.9	195	190
4	15.3	7.5	0.2	7.8	8.7	190	190

**Jan 2023**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (11 Jan)	Water Level (cm) (25 Jan)
1	14.5	7.4	0.2	46.6	7.4	190	180
2	14.6	7.4	0.2	24.3	6.9	155	145
3	14.5	7.5	0.3	11.4	8.0	190	185
4	15.6	7.2	0.2	20.3	6.9	190	180

**Feb 2023**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)(10 Feb)	Water Level (cm)(21 Feb)
1	20.1	7.4	0.2	26.6	10.4	180	150
2	20.1	7.4	0.2	20.8	10.1	<b>145</b>	<b>140</b>
3	19.9	7.6	0.3	32.3	10.1	190	190
4	21.7	7.3	0.2	40.3	9.5	180	180

**Mar 2023**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)(8 Mar)	Water Level (cm)(31 Mar)
1	27.7	<b>8.1</b>	0.2	131.6	10.8	<b>130</b>	150
2	24.9	7.5	0.2	54.6	10.8	<b>130</b>	<b>140</b>
3	25.1	7.3	0.3	141.3	11.6	170	180
4	24.9	7.9	0.2	80.3	6.5	<b>140</b>	160

**Apr 2023**

Cell No.	Temp. (°C)	pH (12 April)	pH (27 April)	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)(12 Apr)	Water Level (cm)(27 Apr)
1	25.3	7.9	7.9	0.2	23.7	6.1	150	150
2	25.3	7.9	7.9	0.2	28.7	6.1	<b>130</b>	<b>130</b>
3	26.0	7.5	7.6	0.3	29.1	8.6	170	175
4	26.0	7.6	7.6	0.2	34.9	5.0	160	170

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 2023**

Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
Cell 1-1	0.03	0.01	<0.01	0.24	11.0
Cell 1-2	0.05	0.01	<0.01	0.23	11.00
Cell 1-3	0.03	0.01	<0.01	0.23	12.0
Cell 2-1	0.04	<0.01	<0.01	0.23	12.0
Cell 2-2	0.04	<0.01	<0.01	0.23	12.0
Cell 2-3	0.06	<0.01	<0.01	0.23	11.0
Cell 3-1	0.04	<0.01	<0.01	0.28	12.0
Cell 3-2	0.05	<0.01	<0.01	0.28	13.0
Cell 3-3	0.04	<0.01	<0.01	0.29	13.0
Cell 4-1	0.26	0.07	<0.01	0.05	<2.0
Cell 4-2	0.26	0.06	<0.01	0.05	<2.0
Cell 4-3	0.26	0.06	<0.01	0.05	<2.0
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 12 April 2023.