

## D. Summary of Water Quality Monitoring

**Table D1. Water quality at WRA  
 Nov 2021**

Cell No.	Temp. (°C)	pH (19 Nov)	pH (29 Nov)	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (17 Oct) (cm)	Water Level (29 Nov) (cm)
1	22.0	7.2	7.2	0.2	5.6	2.2	180	170
2	21.9	7.3	7.2	0.2	5.3	2.6	160	170
3	22.8	7.1	7.1	0.2	3.8	3.3	205	200
4	22.8	7.1	7.1	0.2	3.8	3.0	200	200

**Dec 2021**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	16.6	6.9	0.3	6.7	5.1	190
2	16.7	7.2	0.3	6.9	4.5	200
3	16.8	7.3	0.3	8.1	6.0	155
4	17.4	7.4	0.3	4.3	5.9	165

**Jan 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	18.6	7.3	0.3	6.9	4.1	185
2	18.6	7.3	0.3	7.2	3.8	185
3	18.7	7.3	0.3	8.2	4.6	<b>140</b>
4	19.2	7.4	0.3	4.4	5.1	160

**Feb 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (8 Feb) (cm)	Water Level (23 Feb) (cm)
1	17.3	7.5	0.3	5.3	8.0	175	210
2	17.5	7.5	0.3	6.2	7.8	185	200
3	17.3	7.5	0.3	7.7	7.5	<b>145</b>	165
4	17.4	7.4	0.3	5.3	7.6	155	175

**Mar 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (15 March) (cm)	Water Level (29 March) (cm)
1	26.9	7.1	0.3	5.3	5.6	170	175
2	27.0	7.2	0.3	8.2	6.0	165	165
3	27.1	7.4	0.3	5.1	6.3	200	210
4	26.8	7.3	0.3	5.2	6.5	190	200

**Apr 2022**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (6 April) (cm)	Water Level (20 April) (cm)
1	26.4	7.1	0.4	6.8	2.9	180	170
2	26.3	7.1	0.3	8.0	1.9	165	160
3	26.2	7.1	0.3	4.6	2.7	210	200
4	27.0	7.0	0.3	3.0	3.8	205	195

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**

<b>Apr 2022</b>						
<b>Monitoring Location</b>	<b>Ammonia-N (mg/L)</b>	<b>NOx-N (mg/L)</b>	<b>Total P (mg/L)</b>	<b>Reactive P (mg/L)</b>	<b>BOD (mg/L)</b>	
Cell 1-1	0.01	<0.01	0.1	0.01	3.0	
Cell 1-2	0.02	<0.01	0.11	<0.01	2.0	
Cell 1-3	0.01	<0.01	0.1	<0.01	3.0	
Cell 2-1	<0.01	<0.01	0.1	<0.01	2.0	
Cell 2-2	0.01	<0.01	0.1	0.01	2.0	
Cell 2-3	<0.01	<0.01	0.1	0.01	2.0	
Cell 3-1	0.03	<0.01	0.03	<0.01	2.0	
Cell 3-2	0.02	<0.01	0.05	<0.01	2.0	
Cell 3-3	0.02	<0.01	0.05	<0.01	2.0	
Cell 4-1	0.03	<0.01	0.05	<0.01	2.0	
Cell 4-2	0.03	<0.01	0.05	<0.01	<2.0	
Cell 4-3	0.03	<0.01	0.05	<0.01	<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 13 April 2022.