

## D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

### May 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	29.1	7.2	0.34	11.4	6.15	160	160
2	29.4	7.4	0.28	8.6	5.94	<b>130</b>	<b>130</b>
3	29.5	7.6	0.37	10.2	6.15	<b>140</b>	<b>140</b>
4	29.9	7.4	0.35	6.6	5.79	<b>140</b>	<b>130</b>

### Jun 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	31.1	7.6	0.34	11.7	6.15	160	200
2	30.3	7.8	0.30	9.4	5.94	<b>130</b>	150
3	31.6	7.9	0.38	10.3	7.20	180	170
4	31.8	7.6	0.35	7.1	6.73	<b>110</b>	170

**Jul 2019**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	33.7	7.52	0.31	13.1	5.81	180	180
2	33.1	7.73	0.27	10.6	5.60	160	170
3	33.8	7.99	0.35	8.6	6.86	200	210
4	33.6	7.68	0.32	6.6	6.39	200	200

**Aug 2019**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	29.6	7.3	0.16	14.4	6.99	160	180
2	29.9	7.2	0.16	3.5	7.04	<b>140</b>	150
3	30.3	7.4	0.17	5.7	7.20	160	180
4	30.4	7.5	0.17	7.3	7.07	160	<b>130</b>

**Sep 2019**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	31.8	7.5	0.12	7.6	7.12	160	160
2	31.4	7.4	0.16	6.5	6.31	<b>140</b>	<b>140</b>
3	31.6	7.3	0.15	8.9	7.30	170	180
4	31.8	7.3	0.15	4.9	7.32	170	170

**Oct 2019**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	30.6	7.6	0.21	8.1	6.61	150	150
2	30.2	7.5	0.25	7.3	5.80	<b>130</b>	<b>120</b>
3	30.4	7.4	0.24	6.6	6.79	150	160
4	30.6	7.4	0.24	5.4	6.81	170	150
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 pH and/ or water level monitoring was conducted

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

**Sep 2019**

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.04	0.04	0.04	<0.01	<2
2	0.10	0.12	0.04	<0.01	<2
3	0.05	0.05	0.03	<0.01	<2
4	0.03	0.04	0.03	<0.01	<2
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 in situ water quality monitoring was carried out on 18 September 2019.