

# Appendix D. Summary of Water Quality Monitoring

**Table D1. Water quality at WRA**

**November 2017**

Cell No.	Temp. (°C)	pH	Additional pH monitoring	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	22.3	8.11	8.09	0.14	10.9	5.7	170
2	22.5	8.08	8.07	0.15	12.1	6.3	160
3	22.6	8.01	8.00	0.15	12.4	6.0	160
4	22.5	7.94	7.88	0.15	10.3	5.8.	150

**December 2017**

Cell No.	Temp. (°C)	pH	Additional pH monitoring	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	18.4	7.89	7.98	0.18	21.9	6.0	160
2	18.6	7.86	7.95	0.19	23.1	6.6	140
3	18.7	7.79	7.88	0.19	23.4	6.3	160
4	18.6	7.72	7.81	0.19	21.3	6.1	160

**January 2018**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring
1	13.8	7.72	0.21	9.6	8.7	160	160
2	13.3	7.44	0.22	10.6	10.4	130	130
3	14.8	7.61	0.21	4.9	9.3	150	150
4	16.0	7.49	0.20	4.2	7.1	150	150

**February 2018**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	16.8	7.63	0.20	8.7	8.5	140	140
2	16.7	7.49	0.23	6.4	8.6	130	120
3	17.2	7.58	0.22	8.1	8.8	150	150
4	17.0	7.70	0.22	5.9	8.0	140	140

**March 2018**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring
1	20.1	7.81	0.25	7.0	9.1	130	130
2	19.5	7.90	0.29	18.9	9.5	100	110
3	21.0	7.98	0.25	7.0	9.2	130	130
4	22.7	7.88	0.22	5.2	7.4	130	130

**April 2018**

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level (cm)
<b>1</b>	29.3	7.71	0.19	7.9	8.3	<b>130</b>	<b>120</b>
<b>2</b>	29.7	7.59	0.22	5.9	8.5	<b>100</b>	<b>100</b>
<b>3</b>	29.5	7.62	0.21	6.7	8.6	<b>130</b>	<b>130</b>
<b>4</b>	30.0	7.68	0.21	6.0	8.1	<b>130</b>	<b>130</b>

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 underline** indicate that limit level is reached  
 # Additional pH and/ or water level monitoring was conducted

**Table D2. In situ water quality at WRA**

**March 2018**

<b>Cell No.</b>	<b>Ammonia (mg/L)</b>	<b>Total oxidized nitrogen (mg/L)</b>	<b>Total P (mg/L)</b>	<b>Reactive P (mg/L)</b>	<b>BOD (mg/L)</b>
<b>1</b>	0.05	0.04	0.04	<0.01	<2
<b>2</b>	0.04	0.02	0.05	<0.01	<2
<b>3</b>	0.04	0.03	0.03	<0.01	<2
<b>4</b>	0.06	0.02	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 underline** indicate that limit level is reached.  
 The additional in situ water quality monitoring was carried out on 17 March 2018.