

Appendix D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

Nov 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	21.7	7.5	0.07	4.8	8.1	160
2	21.4	7.6	0.11	6.8	8.3	150
3	21.9	7.6	0.07	6.7	7.9	180
4	22.5	7.7	0.07	4.5	7.2	180

Dec 2018

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
1	19.7	7.4	0.09	6.4	7.8	160
2	19.4	7.5	0.13	7.4	8.0	140
3	19.9	7.6	0.09	7.0	7.6	160
4	20.5	7.7	0.09	5.3	8.1	160

Jan 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	22.3	7.3	0.08	6.3	8.3	150	150
2	21.6	7.4	0.11	5.8	8.4	130	120
3	22.0	7.4	0.08	6.6	7.8	150	140
4	21.8	7.5	0.09	6.9	7.8	150	150

Feb 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	25.6	7.5	0.08	3.3	8.8	150	140
2	25.3	7.3	0.10	4.7	8.6	130	130
3	24.3	7.3	0.07	4.5	8.2	150	150
4	25.8	7.4	0.08	5.2	8.1	160	150

Mar 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	26.9	7.6	0.33	7.1	7.4	150	140
2	27.3	7.8	0.40	7.0	7.6	140	130
3	27.3	8.1	0.29	6.8	7.8	160	150
4	26.9	7.8	0.27	5.8	7.4	160	140

Apr 2019

Cell No.	Temp. (°C)	pH	Additional pH Monitoring	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	30.2	7.17	7.21	0.36	17.3	6.8	160	160
2	30.6	7.66	7.70	0.30	13.6	6.6	130	130
3	30.6	7.88	7.92	0.39	14.8	6.8	160	160
4	30.3	7.67	7.52	0.37	7.9	6.4	160	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 underline** indicate that limit level is reached
 # Additional pH and/ or water level monitoring was conducted

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

Mar 2019

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.18	0.12	<0.01	0.03	<2
2	0.15	0.06	<0.01	0.06	<2
3	0.13	0.15	<0.01	0.03	<2
4	0.08	0.06	<0.01	0.02	<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 29 March 2019.