

D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

Nov 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	22.5	7.73	0.28	9.8	6.27	140	130
2	22.1	7.61	0.32	8.4	5.63	100	100
3	22.3	7.56	0.31	5.9	6.45	150	140
4	22.5	7.61	0.31	4.2	6.47	150	140

Dec 2019

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	23.1	7.61	0.39	8.8	5.93	130	110
2	22.7	7.55	0.43	11.4	5.66	110	100
3	22.9	7.44	0.42	7.9	6.11	140	120
4	23.1	7.74	0.42	5.8	6.13	130	110

Jan 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	19.1	7.71	0.25	6.2	5.73	110	110
2	18.7	7.65	0.29	8.9	5.74	100	100
3	18.9	7.52	0.28	6.8	5.91	120	110
4	19.1	7.80	0.28	5.2	6.01	110	110

Feb 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	25.7	6.7	0.29	14.4	6.14	110	110
2	25.3	7.0	0.33	15.1	6.15	70	80
3	25.5	7.3	0.32	16.8	6.32	120	120
4	25.7	7.5	0.32	8.9	6.33	120	130

Mar 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	27.7	7.2	0.13	64.6	5.93	100	100
2	27.3	6.5	0.17	22.7	5.93	60	50
3	27.4	7.4	0.16	9.10	2.66	120	110
4	27.8	7.6	0.16	5.40	2.65	110	110

Apr 2020

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)	Additional Water Level Monitoring (cm)
1	28.8	7.3	0.11	12.4	5.61	100	100
2	28.4	7.0	0.15	16.1	5.61	70	50
3	28.5	7.5	0.14	9.2	2.34	120	110
4	28.9	7.7	0.14	7.4	2.33	110	100

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

Mar 2020

Cell No.	Ammonia (mg/L)	Total oxidized nitrogen (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
1	0.31	0.30	0.10	<0.01	<2
2	2.07	0.53	0.04	<0.01	<2
3	0.17	0.10	0.03	<0.01	<2
4	0.15	0.09	0.02	<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 27 March 2020.