D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

May 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (1 May) (cm)	Water Level (27 May) (cm)
1	30.4	7.5	0.2	108.7	13.4	**135**	**130**
2	30.3	7.8	0.2	46.3	9.4	**110**	**100**
3	31.3	7.9	0.2	226.9	16.0	160	155
4	30.1	7.7	0.2	54.7	10.6	**140**	**135**

Jun 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (4 Jun)	Water Level (cm) (24 Jun)
1	31.4	7.7	0.2	27.7	6.8	**130**	**140**
2	31.2	7.8	0.3	29.2	5.5	**105**	**115**
3	31.9	7.4	0.2	69.8	6.4	155	160
4	32.1	7.5	0.2	28.6	8.2	**140**	155

Jul 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (3 Jul)	Water Level (cm) (21 Jul)	Water Level (cm) (29 Jul)	Water Level (cm) (30 Jul)
1	27.8	7.3	0.1	17.3	6.0	155	210	210	215
2	27.7	7.3	0.1	19.0	6.0	**130**	180	180	190
3	27.5	7.5	0.1	30.7	6.8	170	230	230	230
4	27.2	7.5	0.1	33.9	6.8	170	220	220	225

Aug 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (3 Aug)	Water Level (cm) (6 Aug)	Water Level (cm) (15 Aug)	Water Level (cm) (26 Aug)
1	30.6	7.2	0.1	55.9	4.7	210	210	210	210
2	29.0	7.1	0.1	5.1	2.9	185	190	180	190
3	29.3	7.1	0.1	9.6	3.9	230	230	230	220
4	29.4	7.4	0.1	4.7	5.9	220	220	215	210

Sep 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (5 Sep)	Water Level (cm) (8 Sep)	Water Level (cm) (22 Sep)	Water Level (cm) (25 Sep)
1	30.5	6.8	0.1	29.4	6.8	200	210	210	210
2	28.6	7.5	0.1	7.7	7.0	170	185	185	190
3	29.6	7.5	0.1	5.8	6.8	215	220	230	235
4	28.7	7.6	0.1	7.7	7.4	210	220	220	230

Oct 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)*	Water Level (cm) (1 Oct)	Water Level (cm) (29 Oct)
1	31.6	7.2	0.1	29.7	4.3	210	200
2	30.4	7.3	0.1	7.7	4.0	180	165
3	31.4	7.3	0.1	7.1	4.3	220	205
4	31.9	7.4	0.1	21.3	6.0	210	200

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
* The data has been updated since the corresponding monthly EM&A report

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

Oct 2025

Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Reactive P (mg/L)	Total P (mg/L)	BOD (mg/L)
Cell 1-1	0.07	<0.01	0.02	0.11	2
Cell 1-2	0.05	<0.01	0.02	0.10	2
Cell 1-3	0.03	<0.01	0.02	0.12	2
Cell 2-1	0.01	<0.01	0.03	0.14	2
Cell 2-2	0.03	<0.01	0.05	0.14	3
Cell 2-3	0.04	<0.01	0.03	0.11	2
Cell 3-1	0.04	<0.01	0.08	0.17	2
Cell 3-2	0.03	<0.01	0.05	0.14	3
Cell 3-3	0.04	<0.01	0.05	0.14	2
Cell 4-1	0.03	<0.01	<0.01	0.14	4
Cell 4-2	0.02	<0.01	<0.01	0.14	3
Cell 4-3	0.04	0.03	<0.01	0.16	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 water samples for ex-situ laboratory analysis were collected on 15 October 2025.