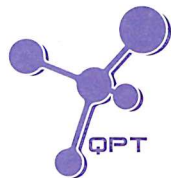


Annex G

Water Quality

Annex G1

Calibration Certificates for Water Quality



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030056
Date of Issue : 20 March 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : S/N: 15M100005
Date of Received : 17 March 2023
Date of Calibration : 17 March 2023
Date of Next Calibration : 16 June 2023
Request No. : D-BC030056

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500 H ⁺
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 21e 4500 O
Turbidity	APHA 21e 2130 B
Conductivity	APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.16	0.15	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
40	39.8	-0.2	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)


(3) Salinity

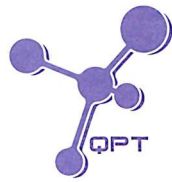
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.09	0.90	Satisfactory
20	20.53	2.65	Satisfactory
30	30.46	1.53	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:


LEE Chun-ning
Assistant Manager (Chemical Testing)



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030056
Date of Issue : 20 March 2023
Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.17	8.33	0.16	Satisfactory
5.28	5.21	-0.07	Satisfactory
1.86	1.58	-0.28	Satisfactory
0.30	0.39	0.09	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10	--	Satisfactory
10	9.88	-1.2	Satisfactory
20	19.72	-1.4	Satisfactory
100	97.36	-2.6	Satisfactory
800	789.53	-1.3	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

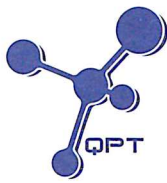
Expected Reading ($\mu\text{S/cm}$ at 25°C)	Display Reading	Tolerance (%)	Result
146.9	151.3	3.00	Satisfactory
1412	1366	-3.26	Satisfactory
12890	12852	-0.29	Satisfactory
58670	60593	3.28	Satisfactory
111900	111742	-0.14	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : S/N: 16H104233
Date of Received : 02 June 2023
Date of Calibration : 02 June 2023
Date of Next Calibration : 01 September 2023
Request No. : D-BC060025

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500 H ⁺
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 21e 4500 O
Turbidity	APHA 21e 2130 B
Conductivity	APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.07	0.07	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.09	0.08	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10	10.0	0.0	Satisfactory
25	25.0	0.0	Satisfactory
45	45.0	0.0	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

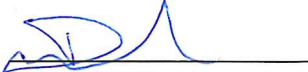
(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.09	0.90	Satisfactory
20	20.38	1.90	Satisfactory
30	30.33	1.10	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

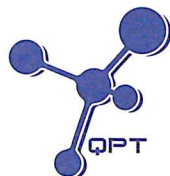
--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:



LEE Chun-ning

Assistant Manager (Chemical Testing)



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023
Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.12	7.15	0.03	Satisfactory
4.61	4.39	-0.22	Satisfactory
1.57	1.27	-0.30	Satisfactory
0.16	0.56	0.40	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10	--	Satisfactory
10	9.84	-1.60	Satisfactory
20	20.11	0.50	Satisfactory
100	107.60	7.60	Satisfactory
800	798.22	-0.20	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

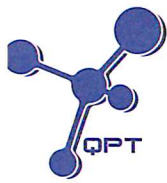
Expected Reading ($\mu\text{S}/\text{cm}$ at 25°C)	Display Reading	Tolerance (%)	Result
146.9	148.7	1.23	Satisfactory
1412	1491	5.59	Satisfactory
12890	12677	-1.65	Satisfactory
58670	59440	1.31	Satisfactory
111900	113112	1.08	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB120080
Date of Issue : 20 December 2022
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 17E100747
Date of Received : 20 December 2022
Date of Calibration : 20 December 2022
Date of Next Calibration : 19 March 2023
Request No. : D-BB120080

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500 H ⁺
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 21e 4500 O
Turbidity	APHA 21e 2130 B
Conductivity	APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.06	0.05	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	14.9	-0.1	Satisfactory
30	30.0	0.0	Satisfactory
45	49.9	4.9	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.94	-0.60	Satisfactory
20	20.21	1.05	Satisfactory
30	30.20	0.67	Satisfactory

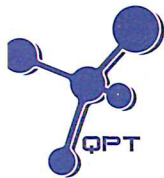
Tolerance of Salinity should be less than ± 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB120080
Date of Issue : 20 December 2022
Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
9.37	9.60	0.23	Satisfactory
7.08	6.64	-0.44	Satisfactory
4.84	4.48	-0.36	Satisfactory
3.10	2.81	-0.29	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10	--	Satisfactory
10	9.85	-1.50	Satisfactory
20	19.77	-1.20	Satisfactory
100	99.16	-0.80	Satisfactory
800	796.62	-0.40	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

Expected Reading ($\mu\text{S/cm at } 25^\circ\text{C}$)	Display Reading	Tolerance (%)	Result
146.9	151.2	2.93	Satisfactory
1412	1366	-3.26	Satisfactory
12890	13610	5.59	Satisfactory
58670	56516	-3.67	Satisfactory
111900	111612	-0.26	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---

Annex G2

Monitoring Schedule for Water Quality

Tung Chung New Town Extension (East)
Impact Marine Water Quality Monitoring (WQM) Schedule (May 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May	3-May	4-May	5-May	6-May
	ebb tide 9:16 - 12:46 flood tide 14:40 - 18:10		ebb tide 10:07 - 13:37 flood tide 16:13 - 19:43		ebb tide 11:05 - 14:35 flood tide 17:43 - 21:13	
7-May	8-May	9-May	10-May	11-May	12-May	13-May
	ebb tide 12:57 - 16:27 flood tide 6:05 - 9:35		ebb tide 14:35 - 17:05 flood tide 7:14 - 10:44		ebb tide 16:40 - 20:10 flood tide 5:05 - 7:37	
14-May	15-May	16-May	17-May	18-May	19-May	20-May
	ebb tide 8:41 - 12:11 flood tide 14:01 - 17:31		ebb tide 9:57 - 13:27 flood tide 16:03 - 19:33		ebb tide 11:07 - 14:37 flood tide 17:54 - 21:24	
21-May	22-May	23-May	24-May	25-May	26-May	27-May
	ebb tide 12:59 - 16:29 flood tide 5:48 - 9:18		ebb tide 14:17 - 16:32 flood tide 6:40 - 10:10		WQM was cancelled due to suspension of marine works during holiday	
28-May	29-May	30-May	31-May			
	ebb tide 7:37 - 11:07 flood tide 12:38 - 16:08		ebb tide 8:58 - 12:28 flood tide 15:03 - 18:33			

Remark:

Pickup time and place of 1st tide: 15 min before tidal window at Sham Tseng pier
 Pickup time and place of 2nd tide: 15 min before tidal window at Tung Chung pier

Annex G3

Monitoring Results for Water Quality

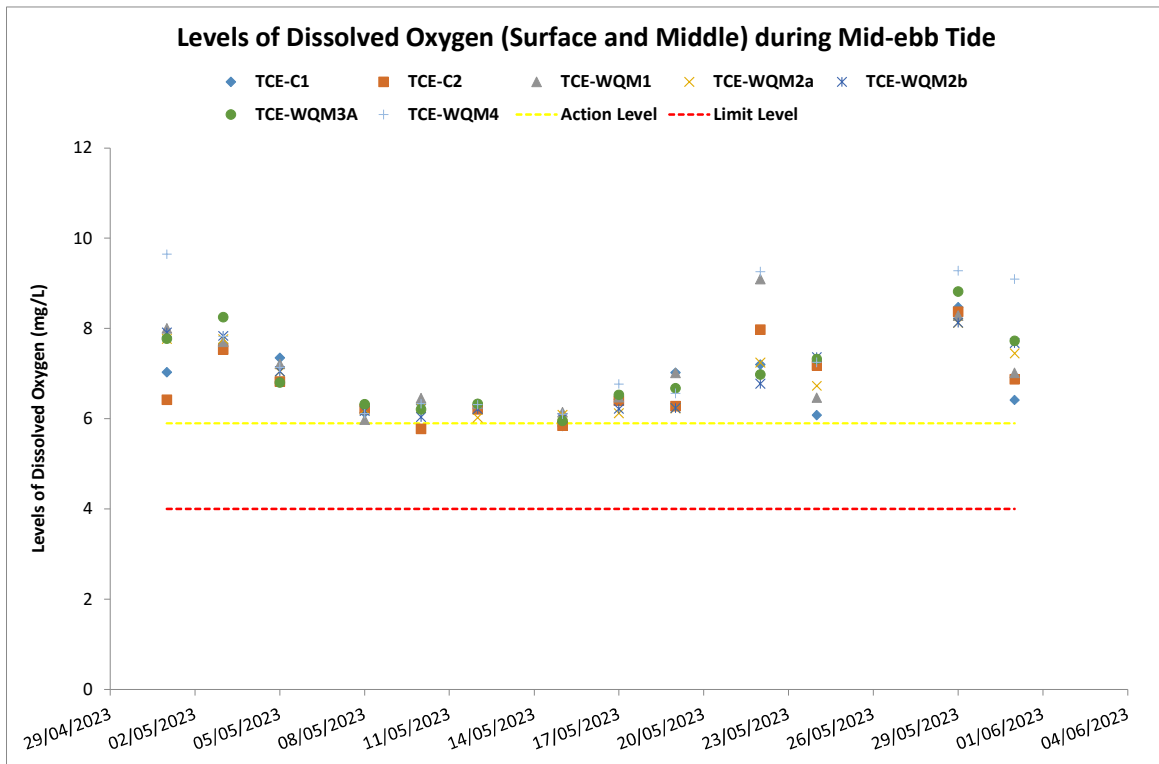


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 May 2023

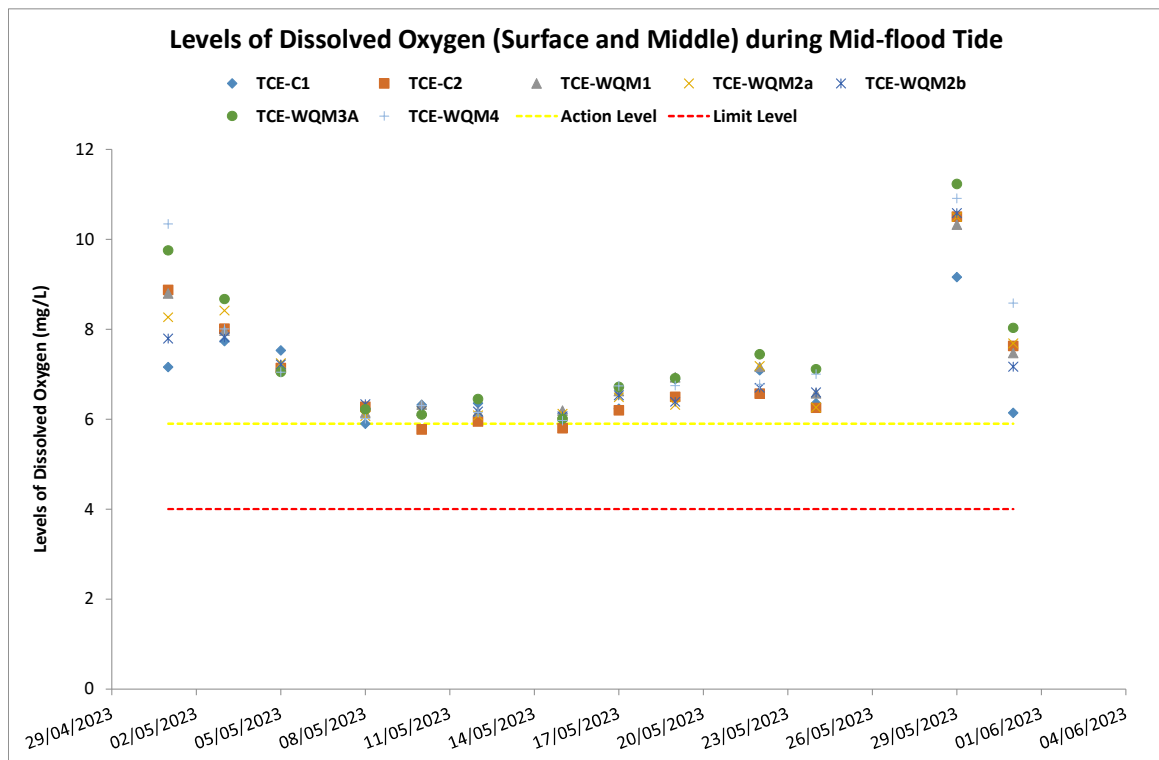


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 May 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: May 2023

**Environmental
 Resources
 Management**



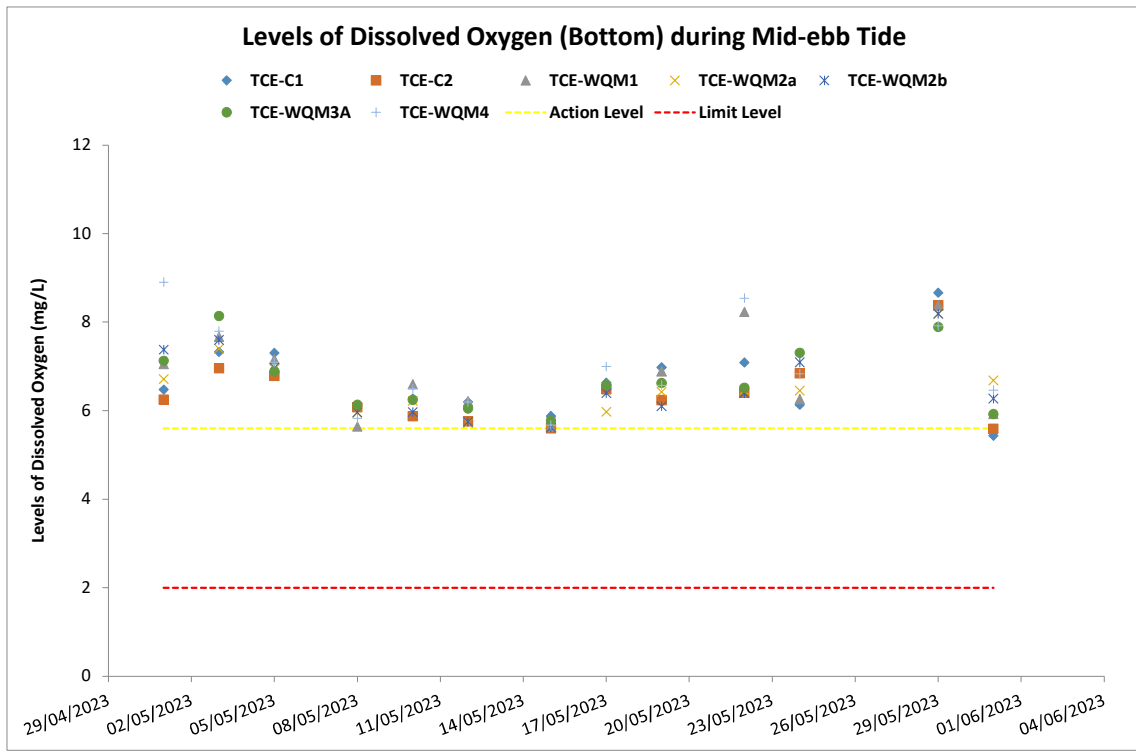


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 May 2023

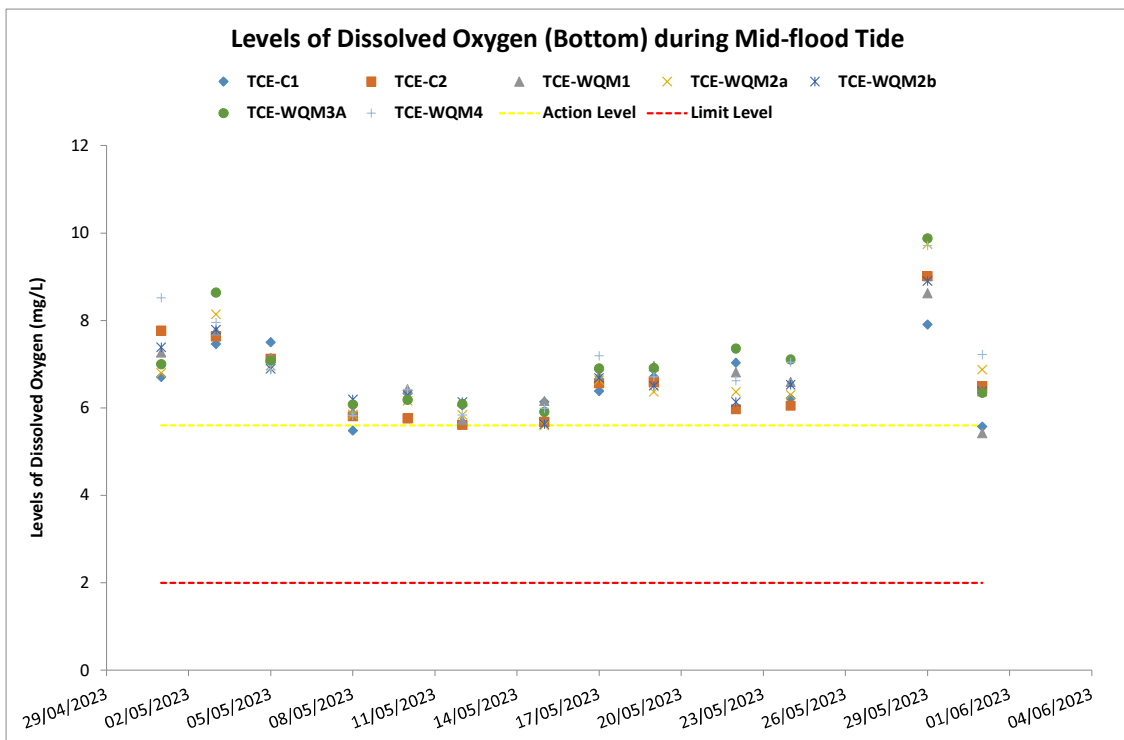


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 May 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: May 2023

**Environmental
 Resources
 Management**



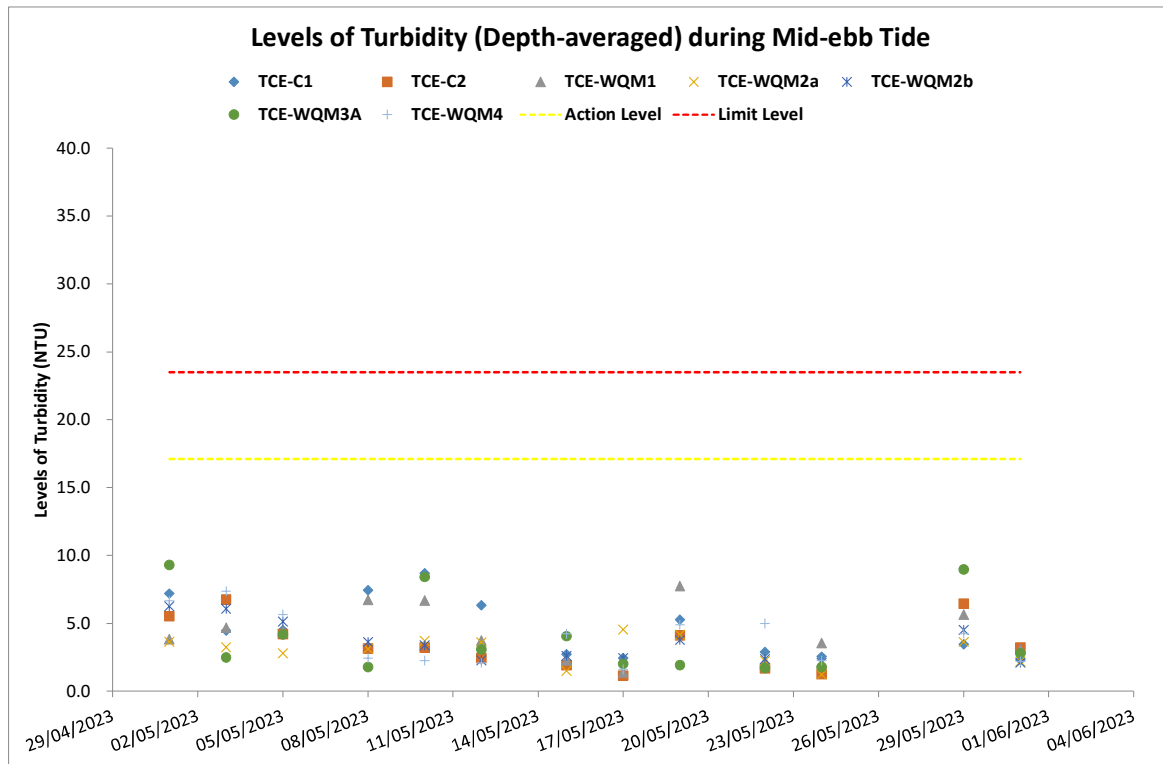


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 May 2023

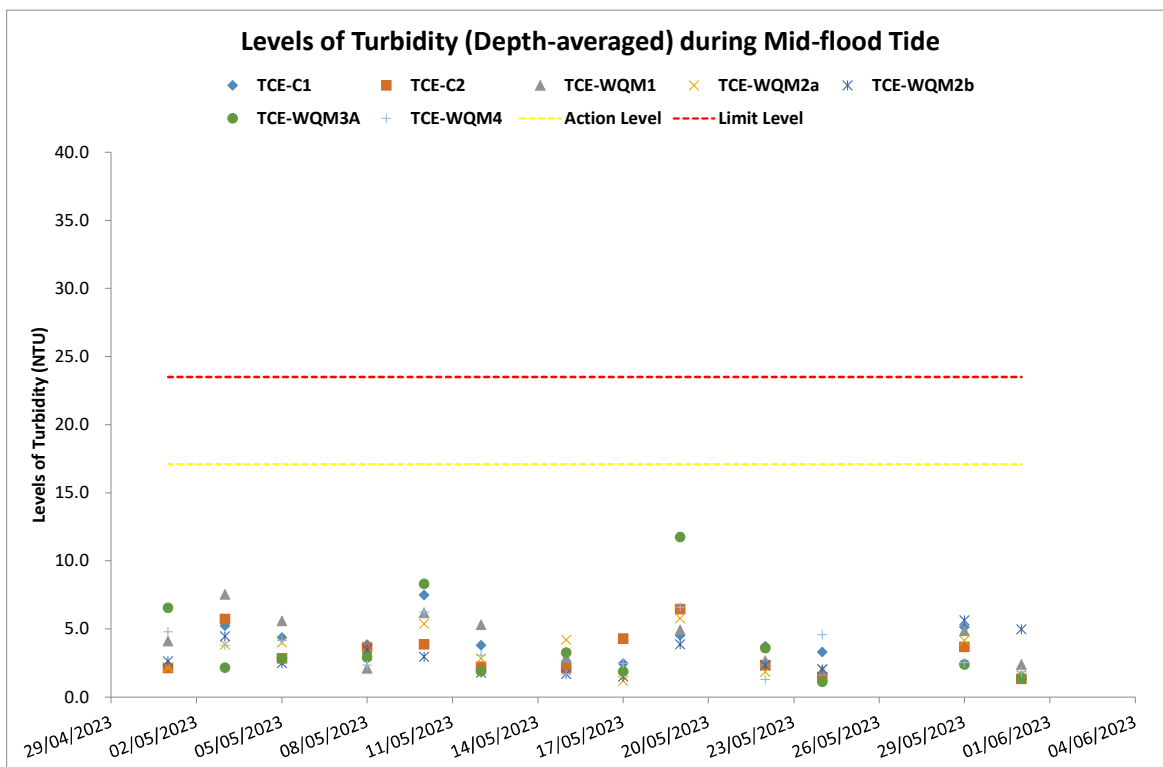


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 May 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02_Deliverable\10 Monthly EM&A Report\
 Date: May 2023

**Environmental
 Resources
 Management**



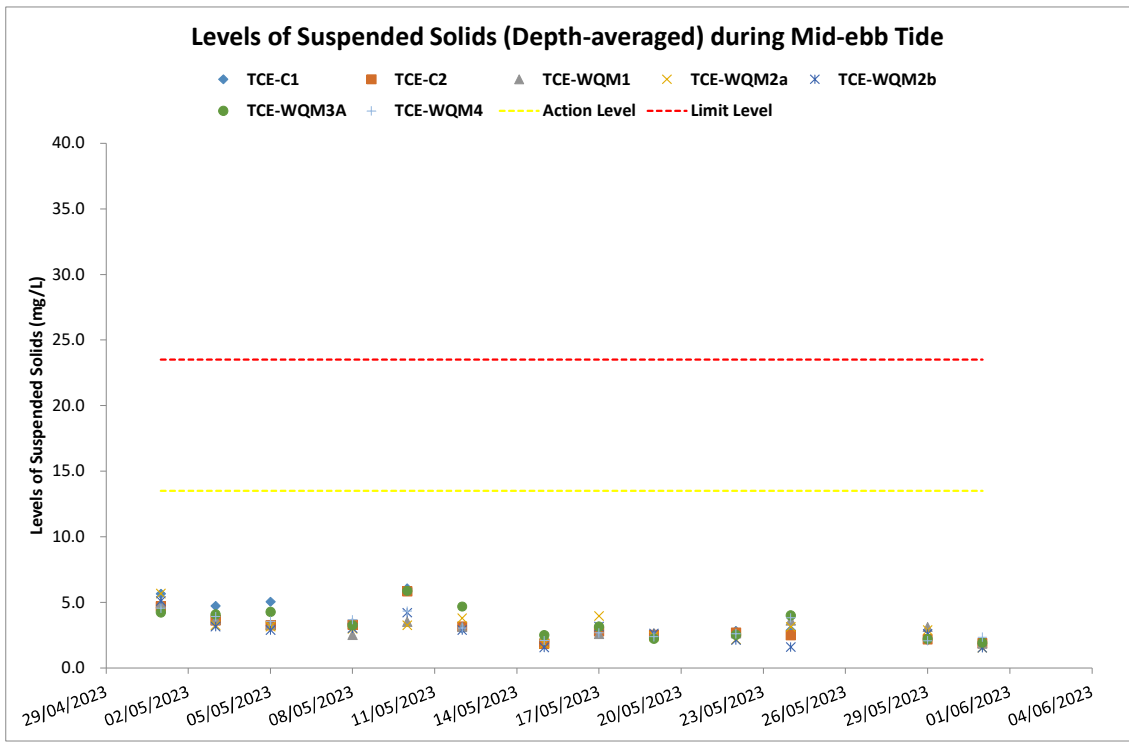


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 May 2023

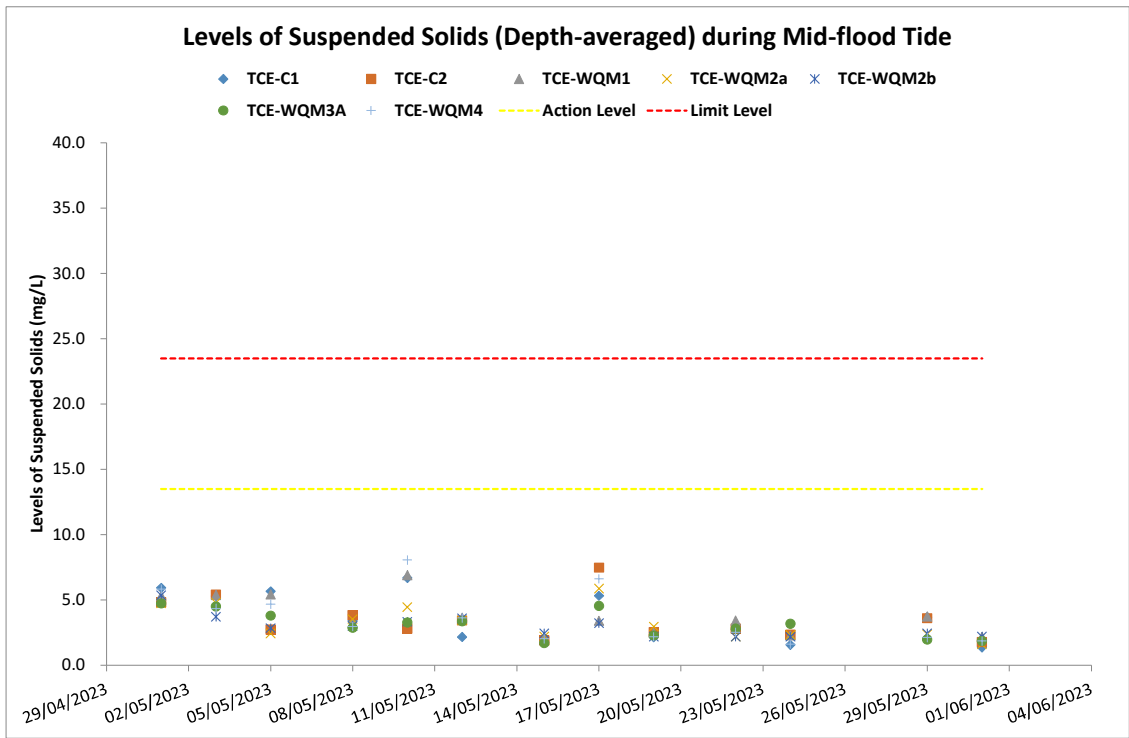


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 May 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02_Deliverable\10 Monthly EM&A Report\
 Date: May 2023

**Environmental
 Resources
 Management**



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
2023-05-01	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:16	8.6	Surface	1.0	1	24.1	8.3	33.2	7.6	109.6	2.9	5.1	7.0	7.2	5.7			
									2	24.1	8.3	33.3	7.6	109.3	2.9	4.8						
							Middle	4.3	1	24.0	8.2	33.8	6.5	92.9	8.1	5.7						
							Bottom	7.6	1	24.0	8.2	33.8	6.5	93.0	7.9	5.3						
				2	24.0	8.0	33.7	6.5	93.2	10.7	6.4	6.5										
				2	24.0	8.0	33.7	6.5	93.3	10.6	6.6											
		Surface	1.0	1	24.0	8.2	33.3	6.6	94.4	2.3	4.2											
				2	23.9	8.2	33.4	6.6	94.3	2.3	3.9											
				1	23.8	8.2	33.9	6.3	90.2	5.5	4.5	6.4	5.5	4.7								
		Middle	6.9	1	23.8	8.2	33.9	6.3	90.0	5.8	4.8											
		Bottom	12.7	1	23.8	8.1	33.9	6.3	89.8	8.9	5.2											
				2	23.8	8.1	33.9	6.3	89.9	8.3	5.6											
			1	24.5	8.4	31.1	8.7	124.2	3.3	4.4	8.0	3.8	4.9									
			2	24.5	8.4	31.2	8.6	123.2	3.3	4.1												
	Middle	4.3	1	24.2	8.3	32.1	7.4	105.5	3.8	4.8												
	Bottom	7.6	1	24.1	8.3	32.6	7.0	101.0	4.2	5.4												
			2	24.1	8.3	32.6	7.1	101.3	4.7	5.8	7.1											
			1	24.2	8.3	31.7	8.1	115.2	2.0	4.6												
	Surface	1.0	1	24.2	8.3	31.7	8.1	115.2	2.0	5.0												
			2	24.2	8.3	31.7	8.1	115.2	2.0	5.0												
			1	24.0	8.3	32.4	7.6	108.3	2.5	5.5	7.8	3.6	5.7									
	Middle	3.6	1	24.0	8.3	32.4	7.6	108.3	2.5	5.5												
	Bottom	6.1	1	24.0	8.2	32.8	6.7	96.1	6.8	6.5												
			2	24.0	8.2	32.8	6.7	96.2	6.0	6.8												
		1	24.3	8.3	31.7	8.2	117.1	4.4	6.1	7.9	6.3	5.1										
		2	24.3	8.3	31.7	8.2	117.0	4.4	5.8													
Middle	5.2	1	24.1	8.3	32.2	7.7	109.9	5.4	5.3													
Bottom	9.4	1	24.1	8.3	32.3	7.6	109.1	5.4	4.9													
		2	24.1	8.3	32.4	7.2	103.6	8.9	4.4	7.4												
		1	24.1	8.3	32.4	7.5	107.5	8.9	4.1													
Surface	1.0	1	24.5	8.3	30.9	7.8	111.5	8.4	4.0													
		2	24.5	8.3	31.0	7.8	111.1	8.2	3.7													
		1	24.5	8.2	31.2	7.1	102.2	10.3	4.8	7.1	9.3	4.2										
		2	24.5	8.2	31.3	7.1	102.0	10.3	4.4													
Surface	1.0	1	24.8	8.5	29.8	9.7	138.1	4.5	5.3													
		2	24.8	8.5	29.8	9.6	137.6	4.7	4.8													
		1	24.7	8.5	30.4	9.0	129.4	8.7	3.9	9.6	6.6	4.6										
		2	24.7	8.4	30.4	8.8	125.4	8.7	4.2													
Bottom	2.2	1	24.7	8.5	30.4	9.0	129.4	8.7	3.9													
		2	24.7	8.4	30.4	8.8	125.4	8.7	4.2													
2023-05-01	Mid-Flood	TCE-C1	Cloudy	Moderate	14:42	8.5	Surface	1.0	1	24.2	8.3	33.0	7.7	110.3	2.7	5.4	7.2	2.3	5.9			
									2	24.2	8.3	33.1	7.6	109.9	2.7	5.7						
							Middle	4.3	1	23.9	8.3	34.0	6.7	96.1	2.1	5.7						
									2	23.9	8.3	34.0	6.7	96.1	2.0	6.0						
							Bottom	7.5	1	24.0	8.3	33.9	6.7	96.6	2.2	6.2				6.7		
									2	24.0	8.3	33.8	6.7	96.8	2.3	6.6						
							Surface	1.0	1	24.4	8.5	31.9	9.8	140.5	1.9	4.0						
									2	24.4	8.5	31.9	9.8	140.0	1.9	3.7						
									1	24.0	8.3	32.8	8.0	114.7	2.3	5.1				8.9	2.1	4.8
							Middle	6.9	1	24.0	8.3	32.8	8.0	114.5	2.3	4.7						
							Bottom	12.8	1	24.1	8.3	32.7	7.8	111.3	2.2	5.5						
									2	24.1	8.3	32.7	7.8	111.9	2.2	5.9						
				1	25.0	8.6	29.6	10.3	147.9	2.4	5.9	8.8	4.1	5.3								
				2	24.9	8.6	29.7	10.3	147.3	2.5	6.2											
		Middle	3.9	1	24.2	8.3	32.3	7.3	104.3	4.4	5.8											
		Bottom	6.8	1	24.2	8.3	32.3	7.3	104.2	4.5	5.2											
				2	24.2	8.3	32.5	7.3	104.2	5.1	4.6	7.3										
				2	24.2	8.3	32.5	7.3	104.4	5.8	4.2											
		Surface	1.0	1	24.4	8.3	31.7	8.5	121.5	1.9	4.2											
				2	24.4	8.3	31.7	8.5	121.5	1.9	4.3											
				1	24.1	8.3	32.3	8.1	115.7	2.0	4.9	8.3	2.2	4.7								
		Middle	3.3	1	24.1	8.3	32.3	8.1	115.7	2.0	4.9											
		Bottom	5.5	1	24.0	8.2	32.8	6.8	97.3	2.4	5.4											
				2	24.0	8.2	32.8	6.8	97.6	2.8	5.0											
				1	24.6	8.3	31.4	8.4	120.5	2.4	4.8	7.8	2.6	5.4								
				2	24.6	8.3	31.4	8.4	120.2	2.5	4.4											
		Middle	5.9	1	24.2	8.2	32.0	7.2	103.1	2.8	5.2											
		Bottom	10.8	1	24.2	8.2	32.0	7.2	103.2	2.9	5.6											
				2	24.3	8.3	31.9	7.4	105.8	2.6	6.3	7.4										
				2	24.3	8.3	31.9	7.4	106.0	2.7	5.9											
		Surface	1.0	1	24.8	8.5	30.7	9.8	141.0	2.3	4.9											
				2	24.7	8.5	30.9	9.7	139.0	2.4	5.2											
				1	24.8	8.4	31.1	7.0	115.3	10.8	4.2	9.8	6.6	4.7								
				2	25.1	8.4	31.0	7.0	105.9	10.8	4.6											
		Bottom	3.7	1	24.8	8.4	31.1	7.0	115.3	10.8	4.2											
				2	25.1	8.4	31.0	7.0	105.9	10.8	4.6											
		1	24.8	8.5	29.9	10.4	148.6	1.9	5.6	10.3	4.8	5.8										
		2	24.8	8.5	29.9	10.3	147.3	1.9	5.3													
Surface	1.0	1	24.8	8.5	29.9	10.4	148.6	1.9	5.6													
		2	24.8	8.5	29.9	10.3	147.3	1.9	5.3													
		1	24.9	8.3	29.9	8.5	122.0	7.7	6.4	8.5												
		2	24.9	8.3	29.9	8.5	122.5	7.7	6.0													
Bottom	2.1	1	24.9	8.3	29.9	8.5	122.0	7.7	6.4													
		2	25.0	8.3	29.9	8.5	122.5	7.7	6.0													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-03	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:34	8.2	Surface	1.0	1	24.6	8.2	32.5	8.0	116.0	2.2	4.1	7.7	4.5	4.7
									2	24.6	8.2	32.5	8.0	116.0	2.1	4.3			
							Middle	4.1	1	24.4	8.1	32.9	7.3	105.3	2.0	4.5			
							Bottom	7.2	1	24.4	8.1	32.9	7.3	105.4	2.1	4.9			
						2	24.4	8.1	32.9	7.3	105.8	9.1	5.4	7.3					
				2	24.4	8.1	32.9	7.3	105.9	9.2	5.1								
		Surface	1.0	1	24.4	8.2	31.9	8.1	115.7	8.4	3.1								
				2	24.4	8.2	31.9	8.1	115.4	8.4	3.3								
						1	24.0	8.1	33.3	7.0	100.8	4.7	3.7	7.5	6.8	3.6			
		Middle	7.3	1	24.0	8.1	33.3	7.0	100.7	4.9	3.5								
		Bottom	13.5	1	24.0	8.0	33.3	7.0	100.1	7.0	4.3								
				2	24.0	8.0	33.3	7.0	100.0	7.1	3.8								
					1	24.4	8.1	32.3	7.7	111.0	4.3	3.0	7.7	4.7	3.7				
			2	24.4	8.1	32.3	7.7	111.0	4.3	3.3									
	Middle	4.0	1	24.4	8.1	32.3	7.7	110.6	4.3	3.8									
	Bottom	7.0	1	24.4	8.1	32.3	7.7	110.6	4.4	3.4									
					2	24.4	8.1	32.3	7.7	110.3	5.4	4.4	7.7	3.3	3.3				
			2	24.4	8.1	32.3	7.7	110.3	5.5	4.2									
	Surface	1.0	1	24.4	8.1	32.0	8.0	115.2	1.8	3.8									
			2	24.4	8.1	32.0	8.0	115.2	1.8	3.5									
					1	24.2	8.1	32.1	7.5	107.8	3.1	3.3	7.8	6.1	3.2				
	Middle	3.2	1	24.2	8.1	32.2	7.5	107.6	3.2	3.2									
	Bottom	5.3	1	24.3	8.1	32.2	7.4	106.2	4.6	2.8									
			2	24.3	8.1	32.2	7.4	106.1	5.0	3.0									
				1	24.5	8.1	30.9	8.1	115.6	3.2	3.1	7.8	4.7	3.7					
		2	24.4	8.1	31.0	8.1	115.5	3.4	2.8										
Middle	5.7	1	24.3	8.1	31.7	7.6	108.5	6.6	2.9										
Bottom	10.3	1	24.3	8.1	31.7	7.6	108.5	6.6	3.2										
				2	24.3	8.1	31.7	7.6	108.7	8.4	3.7	7.6	2.5	4.1					
		2	24.3	8.1	31.7	7.6	108.8	8.2	3.3										
Surface	1.0	1	24.5	8.1	31.5	8.3	118.5	2.4	4.0										
		2	24.5	8.1	31.5	8.2	118.2	2.5	3.7										
				1	24.5	8.1	31.6	8.2	116.9	2.5	4.4	8.1	7.4	3.9					
		2	24.5	8.1	31.6	8.1	116.6	2.6	4.2										
Surface	1.0	1	24.8	8.2	32.1	7.8	113.4	4.7	3.8										
		2	24.8	8.2	32.1	7.8	113.4	4.5	3.5										
				1	24.8	8.2	32.1	7.8	113.0	10.0	4.1	7.8	3.3	3.3					
		2	24.8	8.2	32.1	7.8	112.9	10.1	4.3										
Surface	1.0	1	24.5	8.1	32.6	8.0	115.0	4.7	5.7										
		2	24.5	8.1	32.7	8.0	114.9	4.9	6.0										
				1	24.3	8.1	32.9	7.5	108.3	2.6	5.4	7.7	5.2	5.3					
		2	24.3	8.1	32.9	7.5	108.1	2.7	5.2										
Middle	4.3	1	24.3	8.1	32.9	7.5	107.5	8.2	4.9										
Bottom	7.5	1	24.3	8.1	32.8	7.5	107.7	8.4	4.6										
				2	24.4	8.1	32.8	7.5	107.7	8.4	4.6	7.5	3.9	4.8					
		2	24.4	8.1	32.8	7.5	107.7	8.4	4.6										
Surface	1.0	1	24.5	8.1	31.3	8.4	120.2	4.0	4.7										
		2	24.5	8.1	31.3	8.4	120.0	4.3	5.0										
				1	24.4	8.1	31.7	7.7	109.9	6.2	5.5	8.0	5.7	5.4					
Middle	6.7	1	24.4	8.1	31.7	7.6	109.5	6.4	5.2										
Bottom	12.3	1	24.3	8.1	32.1	7.6	109.2	6.9	6.2										
		2	24.3	8.1	32.0	7.7	109.7	6.6	5.9										
				1	24.3	8.1	32.0	7.7	109.7	6.6	5.9	7.6	7.5	5.4					
		2	24.3	8.1	32.0	7.7	109.7	6.6	5.9										
Surface	1.0	1	25.0	8.2	32.2	8.2	118.6	6.0	4.7										
		2	25.0	8.2	32.2	8.2	118.6	6.9	4.3										
				1	24.5	8.1	32.3	7.8	112.2	4.5	5.5	8.0	3.9	4.8					
Middle	4.1	1	24.5	8.1	32.3	7.8	112.1	4.7	5.1										
Bottom	7.2	1	24.5	8.1	32.3	7.8	111.9	11.2	6.2										
		2	24.5	8.1	32.3	7.8	112.0	11.9	6.5										
				1	24.5	8.1	32.3	7.8	111.9	11.2	6.2	7.8	4.5	3.7					
		2	24.5	8.1	32.3	7.8	112.0	11.9	6.5										
Surface	1.0	1	25.0	8.2	31.2	8.4	121.4	1.6	5.6										
		2	25.0	8.2	31.2	8.4	121.4	1.6	5.2										
				1	24.9	8.2	31.7	8.4	122.0	1.3	4.9	8.4	2.2	4.5					
Middle	3.5	1	24.9	8.2	31.8	8.4	121.6	1.5	4.6										
Bottom	6.0	1	24.9	8.2	31.9	8.1	117.7	8.8	4.4										
		2	24.9	8.2	31.9	8.2	117.9	8.4	4.0										
				1	24.5	8.1	31.1	7.9	112.5	4.1	4.4	7.8	3.8	4.4					
		2	24.5	8.1	31.1	7.9	112.4	4.2	4.1										
Middle	5.3	1	24.5	8.1	31.1	7.8	111.6	4.5	3.8										
Bottom	9.5	1	24.5	8.1	31.1	7.8	111.6	4.5	3.6										
				2	24.5	8.1	31.2	7.8	111.5	4.7	3.0	8.7	3.8	4.4					
		2	24.5	8.1	31.2	7.8	111.5	4.8	3.4										
Surface	1.0	1	24.6	8.2	31.6	8.7	124.8	2.1	4.6										
		2	24.5	8.2	31.6	8.7	124.6	2.3	4.9										
				1	24.6	8.2	31.6	8.6	124.2	2.1	4.4	8.6	2.2	4.5					
Bottom	3.0	1	24.6	8.2	31.6	8.6	124.2	2.1	4.4										
		2	24.6	8.2	31.6	8.6	124.3	2.1	4.1										
Surface	1.0	1	25.1	8.2	32.2	8.0	116.6	3.6	5.2										
		2	25.1	8.2	32.2	8.0	116.5	3.6	4.8										
				1	25.1	8.2	32.2	8.0	115.9	3.8	3.8	8.0	3.8	4.4					
Bottom	2.3	1	25.1	8.2	32.2	8.0	115.9	3.8	3.8										
		2	25.1	8.2	32.2	8.0	115.8	4.2	3.6										
		2	25.1	8.2	32.2	8.0	115.8	4.2	3.6										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-05	Mid-Ebb	TCE-C1	Fine	Calm	12:46	8.2	Surface	1.0	1	25.6	8.0	30.0	7.4	106.9	3.2	3.8	7.4	4.5	5.1
									2	25.6	8.0	30.0	7.4	106.8	3.2	4.2			
							Middle	4.1	1	25.6	8.0	30.0	7.3	106.5	5.0	4.6			
							Bottom	7.2	1	25.7	8.0	30.0	7.3	106.4	5.0	5.0			
				2	25.7	8.0	30.0	7.3	106.2	5.3	6.4								
				2	25.7	8.0	30.0	7.3	106.1	5.3	6.3								
		TCE-C2	Fine	Calm	11:06	12.4	Surface	1.0	1	24.8	8.0	32.0	7.0	101.3	3.0	3.9	6.8	4.2	3.3
				2	24.7	8.0	32.1	6.8	97.9	3.1	3.5								
		Middle	6.2	1	24.7	8.0	32.3	6.8	97.8	4.3	3.3								
		Bottom	11.4	1	24.7	8.0	32.3	6.8	97.8	4.3	3.1								
				2	24.7	8.0	32.3	6.8	98.1	5.3	3.0								
				2	24.7	8.0	32.2	6.8	98.2	5.2	2.7								
	TCE-WQM1	Fine	Calm	12:19	8.8	Surface	1.0	1	25.7	8.0	30.3	7.2	105.1	3.1	2.6	7.2	4.4	3.3	
			2	25.7	8.0	30.3	7.2	105.0	3.1	2.2									
	Middle	4.4	1	25.7	8.0	30.3	7.2	104.7	4.7	3.4									
	Bottom	7.8	1	25.7	8.0	30.3	7.2	104.6	4.6	3.5									
			2	25.7	8.0	30.3	7.2	104.3	5.4	4.2									
			2	25.7	8.0	30.3	7.2	104.0	5.5	3.8									
	TCE-WQM2a	Fine	Calm	11:48	6.6	Surface	1.0	1	25.4	8.0	30.6	7.1	102.8	2.0	2.7	7.0	2.8	3.2	
			2	25.4	8.0	30.6	7.1	102.8	2.0	2.5									
	Middle	3.3	1	25.3	8.0	30.7	7.0	101.3	3.0	3.3									
	Bottom	5.6	1	25.3	8.0	30.7	7.0	101.2	2.9	3.0									
			2	25.3	8.0	30.7	7.0	100.6	3.4	3.6									
			2	25.3	8.0	30.7	6.9	100.5	3.5	3.9									
TCE-WQM2b	Fine	Calm	11:37	11.0	Surface	1.0	1	25.3	8.0	29.8	7.1	101.7	4.1	2.2	7.1	5.1	2.9		
		2	25.3	8.0	29.8	7.1	101.7	4.1	2.6										
Middle	5.5	1	25.3	8.0	29.8	7.1	101.5	5.2	3.2										
Bottom	10.0	1	25.3	8.0	29.8	7.0	101.4	5.3	2.9										
		2	25.5	8.0	29.6	7.0	101.0	6.0	3.1										
		2	25.6	8.0	29.5	7.0	100.7	6.1	3.3										
TCE-WQM3A	Fine	Calm	11:58	4.6	Surface	1.0	1	25.3	8.0	30.3	6.8	98.4	3.5	4.1	6.8	4.2	4.3		
		2	25.3	8.0	30.4	6.8	98.2	3.5	3.7										
Bottom	3.6	1	25.4	8.0	30.3	6.9	99.3	4.9	4.5										
		2	25.4	8.0	30.3	6.9	100.1	4.9	4.8										
TCE-WQM4	Fine	Calm	12:07	4.2	Surface	1.0	1	25.8	8.0	30.9	7.1	104.3	5.2	2.9	7.1	5.7	3.6		
		2	25.7	8.0	31.0	7.1	104.2	5.2	3.3										
Bottom	3.2	1	25.6	8.0	31.1	7.1	103.6	6.1	3.9										
		2	25.5	8.0	31.1	7.1	103.1	6.1	4.2										
2023-05-05	Mid-Flood	TCE-C1	Fine	Calm	17:46	8.6	Surface	1.0	1	25.7	8.0	30.0	7.5	109.5	3.2	6.4	7.5	4.4	5.7
									2	25.7	8.0	30.0	7.5	109.5	3.1	6.0			
							Middle	4.3	1	25.7	8.0	30.0	7.5	109.3	4.3	5.8			
							Bottom	7.6	1	25.7	8.0	30.0	7.5	109.1	5.7	5.2			
				2	25.7	8.0	30.0	7.5	109.0	5.6	5.1								
		TCE-C2	Fine	Calm	19:08	14.0	Surface	1.0	1	25.6	8.0	29.9	7.2	103.6	2.0	2.4	7.1	2.9	2.7
				2	25.6	8.0	29.9	7.1	103.5	1.9	2.1								
		Middle	7.0	1	25.6	8.0	29.9	7.1	103.3	2.9	2.6								
		Bottom	13.0	1	25.7	8.0	29.8	7.1	103.3	3.8	3.4								
				2	25.7	8.0	29.8	7.1	103.3	3.8	3.0								
		TCE-WQM1	Fine	Calm	18:14	9.4	Surface	1.0	1	25.8	8.0	30.3	7.2	105.4	4.9	4.9	7.2	5.6	5.4
				2	25.8	8.0	30.3	7.2	105.2	5.0	4.6								
		Middle	4.7	1	25.8	8.0	30.3	7.2	104.7	5.3	5.6								
		Bottom	8.4	1	25.9	8.0	30.2	7.2	104.5	6.6	5.9								
				2	26.0	8.0	30.2	7.2	104.4	6.6	6.2								
		TCE-WQM2a	Fine	Calm	18:36	7.8	Surface	1.0	1	25.9	8.0	30.6	7.4	108.1	2.4	2.8	7.2	4.0	2.4
				2	25.9	8.0	30.6	7.4	108.1	2.4	2.6								
		Middle	3.9	1	25.8	8.0	30.8	7.1	103.8	4.5	2.4								
		Bottom	6.8	1	25.8	8.0	30.8	7.1	103.5	4.6	2.4								
				2	25.9	8.0	30.7	7.0	102.3	5.2	2.3								
				2	26.0	8.0	30.6	7.0	102.0	5.2	2.1								
		TCE-WQM2b	Fine	Calm	18:48	11.0	Surface	1.0	1	25.5	8.0	29.5	7.3	104.8	1.2	2.5	7.2	2.5	2.9
				2	25.5	8.0	29.5	7.2	104.5	1.2	2.2								
		Middle	5.5	1	25.5	8.0	29.5	7.2	104.0	2.5	2.6								
Bottom	10.0	1	25.6	8.0	29.5	7.2	103.7	2.4	3.0										
		2	25.9	8.0	29.3	6.9	100.2	3.9	3.3										
		2	25.9	8.0	29.3	6.9	99.8	3.9	3.5										
TCE-WQM3A	Fine	Calm	18:30	4.6	Surface	1.0	1	25.7	8.0	30.8	7.1	103.1	2.1	4.1	7.1	2.8	3.8		
		2	25.7	8.0	30.9	7.1	102.8	2.1	4.4										
Bottom	3.6	1	25.6	8.0	31.0	7.1	103.0	3.6	3.1										
		2	25.6	8.0	31.0	7.1	103.4	3.5	3.6										
TCE-WQM4	Fine	Calm	18:24	4.2	Surface	1.0	1	25.9	8.0	30.5	7.1	103.1	3.5	5.2	7.0	4.2	4.7		
		2	25.9	8.0	30.5	7.0	103.0	3.4	4.9										
Bottom	3.2	1	26.1	8.0	30.4	6.9	101.0	4.8	4.1										
		2	26.2	8.0	30.4	6.9	100.6	4.9	4.5										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-08	Mid-Ebb	TCE-C1	Rainy	Rough	12:58	7.9	Surface	1.0	1	24.5	7.9	27.1	6.1	85.9	5.7	2.7	6.1	7.4	3.4
									2	24.5	7.9	27.1	6.1	85.9	5.7	3.0			
							Middle	4.0	1	24.5	8.0	27.3	6.1	85.9	7.2	3.6			
							Bottom	6.9	1	24.5	8.0	27.3	6.1	85.9	7.2	3.2			
				2	24.5	8.0	27.4	6.1	85.2	9.5	4.1								
				2	24.5	8.0	27.4	6.1	85.2	9.4	3.8								
		TCE-C2	Rainy	Moderate	15:26	13.4	Surface	1.0	1	24.4	7.9	26.0	6.3	87.3	2.2	2.8	6.2	3.2	3.3
				2	24.5	7.9	26.2	6.3	87.1	2.3	2.4								
		Middle	6.7	1	24.6	7.9	27.0	6.2	86.2	2.8	3.1								
		Bottom	12.4	1	24.6	7.9	27.0	6.2	86.2	2.8	3.5								
				2	24.4	7.9	28.3	6.1	85.4	4.4	3.8								
				2	24.4	7.9	28.3	6.1	85.5	4.4	4.2								
	TCE-WQM1	Rainy	Moderate	13:44	8.8	Surface	1.0	1	24.5	7.9	27.1	6.2	86.4	5.7	2.3	6.0	6.7	2.5	
			2	24.5	7.9	27.1	6.2	86.4	5.9	2.1									
	Middle	4.4	1	24.5	8.0	27.2	5.8	80.7	6.7	2.7									
	Bottom	7.8	1	24.5	8.0	27.2	5.8	80.6	6.6	2.4									
			2	24.5	7.9	27.4	5.6	78.8	7.8	2.7									
			2	24.5	7.9	27.4	5.6	78.8	7.8	2.9									
	TCE-WQM2a	Rainy	Moderate	14:39	6.8	Surface	1.0	1	24.6	7.9	26.9	6.3	88.6	2.2	3.5	6.2	3.1	3.0	
			2	24.6	7.9	26.9	6.3	88.6	2.2	2.9									
	Middle	3.4	1	24.4	7.9	27.9	6.1	85.6	2.2	3.0									
	Bottom	5.8	1	24.4	7.9	27.9	6.1	85.6	2.2	3.3									
			2	24.3	8.0	28.9	6.0	83.9	4.9	2.7									
			2	24.3	8.0	28.9	6.0	83.9	4.9	2.5									
TCE-WQM2b	Rainy	Moderate	14:56	9.7	Surface	1.0	1	24.5	7.9	26.1	6.3	87.5	2.1	2.7	6.2	3.6	3.0		
		2	24.5	7.9	26.1	6.3	87.5	2.1	2.6										
Middle	4.9	1	24.4	7.9	28.0	6.1	85.0	3.9	2.9										
Bottom	8.7	1	24.4	7.9	27.9	6.1	85.0	3.9	3.1										
		2	24.4	8.0	28.5	6.0	83.9	5.0	3.5										
		2	24.4	8.0	28.5	6.0	83.9	4.9	3.4										
TCE-WQM3A	Rainy	Moderate	14:23	4.4	Surface	1.0	1	24.6	7.9	26.1	6.3	88.6	1.7	2.7	6.3	1.8	3.3		
		2	24.6	7.9	26.1	6.3	88.6	1.7	3.0										
Bottom	3.4	1	24.6	7.9	26.2	6.1	85.5	1.9	3.8										
		2	24.6	7.9	26.2	6.1	85.4	1.9	3.5										
TCE-WQM4	Rainy	Moderate	14:09	3.9	Surface	1.0	1	24.6	7.9	26.1	6.1	85.2	1.8	4.1	6.1	2.4	3.7		
		2	24.6	7.9	26.1	6.1	85.1	1.8	4.4										
Bottom	2.9	1	24.5	7.9	26.6	5.8	81.4	3.0	3.2										
		2	24.5	7.9	26.6	5.8	81.3	3.1	3.0										
		2	24.0	7.8	30.0	5.8	81.1	4.2	3.0										
		2	24.0	7.8	30.0	5.8	81.1	4.3	3.4										
2023-05-08	Mid-Flood	TCE-C1	Rainy	Rough	8:45	8.5	Surface	1.0	1	24.5	7.9	26.1	6.1	84.1	1.9	4.1	5.9	3.9	3.4
									2	24.5	7.9	26.1	6.0	84.0	1.9	3.8			
							Middle	4.3	1	24.6	7.9	26.4	5.8	80.6	3.6	3.6			
							Bottom	7.5	1	24.6	7.9	26.4	5.7	80.1	3.7	3.3			
				2	24.6	7.9	26.5	5.5	76.7	6.0	2.6								
				2	24.6	7.9	26.5	5.5	76.4	6.1	3.0								
		TCE-C2	Rainy	Rough	6:35	13.9	Surface	1.0	1	24.2	7.8	27.7	6.4	88.9	3.2	4.5	6.3	3.6	3.9
				2	24.2	7.8	27.7	6.4	88.8	3.3	4.8								
		Middle	7.0	1	24.1	7.8	29.8	6.2	87.3	3.5	3.9								
		Bottom	12.9	1	24.1	7.8	29.9	6.2	87.3	3.6	3.5								
				2	24.0	7.8	30.0	5.8	81.1	4.2	3.0								
				2	24.0	7.8	30.0	5.8	81.1	4.3	3.4								
	TCE-WQM1	Rainy	Rough	7:51	9.3	Surface	1.0	1	24.5	7.9	26.0	6.2	86.6	1.8	3.8	6.2	2.1	3.2	
			2	24.4	7.9	26.0	6.2	86.5	1.9	4.2									
	Middle	4.7	1	24.4	7.9	28.3	6.1	85.4	2.6	3.0									
	Bottom	8.3	1	24.4	7.9	28.3	6.1	85.4	2.6	3.5									
			2	24.3	7.9	29.2	5.9	83.4	1.9	2.6									
			2	24.3	7.9	29.2	5.9	83.5	2.0	2.2									
	TCE-WQM2a	Rainy	Moderate	7:13	7.2	Surface	1.0	1	24.5	7.9	26.9	6.1	85.6	2.7	4.5	6.1	3.1	3.5	
			2	24.5	7.9	26.9	6.1	85.6	2.7	5.0									
	Middle	3.6	1	24.5	7.9	27.3	6.0	84.4	3.1	3.5									
	Bottom	6.2	1	24.5	7.9	27.3	6.0	84.3	3.1	3.2									
			2	24.3	7.9	28.3	5.9	82.3	3.4	2.6									
			2	24.3	7.9	28.3	5.9	82.0	3.4	2.4									
TCE-WQM2b	Rainy	Rough	6:57	10.1	Surface	1.0	1	24.2	7.9	27.8	6.4	88.9	3.3	2.3	6.3	3.5	3.0		
		2	24.2	7.9	27.8	6.4	88.9	3.3	2.6										
Middle	5.1	1	24.3	7.9	27.9	6.3	88.3	3.6	3.1										
Bottom	9.1	1	24.3	7.9	27.9	6.3	88.3	3.6	2.8										
		2	24.0	7.8	30.2	6.2	87.5	3.5	3.5										
		2	24.0	7.8	30.2	6.2	87.6	3.6	3.8										
TCE-WQM3A	Rainy	Moderate	7:25	4.8	Surface	1.0	1	24.5	7.9	26.7	6.2	86.8	2.5	3.0	6.2	2.9	2.9		
		2	24.5	7.9	26.7	6.2	86.8	2.5	3.4										
Bottom	3.8	1	24.5	7.9	27.8	6.1	85.4	3.4	2.7										
		2	24.5	7.9	27.8	6.1	85.3	3.4	2.4										
TCE-WQM4	Rainy	Moderate	7:39	4.2	Surface	1.0	1	24.3	7.9	28.6	6.0	84.7	2.2	3.5	6.0	2.4	3.0		
		2	24.3	7.9	28.6	6.0	84.6	2.2	3.1										
Bottom	3.2	1	24.3	7.9	29.1	5.8	82.1	2.5	2.7										
		2	24.3	7.9	29.1	5.8	82.1	2.5	2.6										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-10	Mid-Ebb	TCE-C1	Cloudy	Moderate	14:37	8.9	Surface	1.0	1	25.1	8.1	33.2	6.3	92.9	6.9	5.1	6.3	8.7	6.1
									2	25.1	8.1	33.2	6.3	92.8	7.0	5.5			
							Middle	4.5	1	25.1	8.1	33.3	6.3	92.2	8.9	6.3			
							Bottom	7.9	1	25.1	8.1	33.3	6.3	91.8	10.5	6.6			
				2	25.1	8.1	33.3	6.3	91.8	10.5	6.8								
		TCE-C2	Cloudy	Moderate	16:38	14.4	Surface	1.0	1	25.0	8.0	32.4	5.8	84.5	2.7	5.2	5.8	3.2	5.8
									2	24.9	8.0	32.5	5.8	84.1	2.8	5.5			
							Middle	7.2	1	24.9	8.0	32.9	5.8	83.6	3.2	5.9			
							Bottom	13.4	1	24.8	8.0	32.9	5.8	83.8	3.3	5.6			
				2	24.8	8.0	33.1	5.9	85.4	3.6	6.2								
				2	24.8	8.0	33.1	5.9	85.5	3.6	6.6								
		TCE-WQM1	Cloudy	Moderate	15:25	8.4	Surface	1.0	1	25.1	8.0	30.4	6.4	92.3	5.0	2.6	6.5	6.7	3.5
								2	25.1	8.0	30.5	6.4	92.4	4.9	2.9				
	Middle						4.2	1	25.1	8.0	30.7	6.5	93.8	6.4	3.8				
	Bottom						7.4	1	25.1	8.0	30.7	6.5	94.0	6.9	3.5				
			2	25.1	8.0	30.7	6.6	95.0	8.1	4.4									
			2	25.1	8.0	30.7	6.6	95.4	8.7	4.0									
	TCE-WQM2a	Cloudy	Moderate	15:58	7.1	Surface	1.0	1	25.1	8.0	30.2	6.3	90.8	1.7	4.1	6.2	3.7	3.3	
								2	25.1	8.0	30.2	6.3	90.8	1.7	3.7				
						Middle	3.6	1	25.0	8.0	30.6	6.2	88.9	2.0	3.0				
						Bottom	6.1	1	24.9	8.0	31.4	6.2	89.7	7.5	2.8				
			2	24.9	8.0	31.4	6.2	90.1	7.2	2.6									
	TCE-WQM2b	Cloudy	Moderate	16:09	11.5	Surface	1.0	1	25.1	8.0	30.9	6.1	88.2	2.7	3.8	6.0	3.4	4.2	
								2	25.1	8.0	30.9	6.1	88.1	2.7	3.4				
Middle						5.8	1	25.0	8.0	31.6	6.0	86.4	3.3	4.0					
Bottom						10.5	1	24.9	8.0	31.8	6.0	86.3	3.4	4.4					
		2	24.9	8.0	32.3	6.0	86.3	4.1	4.7										
		2	24.9	8.0	32.3	6.0	86.8	4.1	5.0										
TCE-WQM3A	Cloudy	Moderate	15:49	4.6	Surface	1.0	1	25.0	8.0	30.0	6.2	89.1	6.6	5.6	6.2	8.4	5.9		
							2	25.0	8.0	30.0	6.2	89.2	6.6	5.3					
					Bottom	3.6	1	25.0	8.0	30.1	6.2	89.5	10.3	6.2					
							2	25.0	8.0	30.1	6.3	89.9	10.2	6.4					
TCE-WQM4	Cloudy	Moderate	15:39	3.1	Surface	1.0	1	25.1	8.0	29.9	6.3	90.8	2.3	5.0	6.3	2.3	4.3		
							2	25.1	8.0	29.9	6.3	91.0	2.3	4.6					
					Bottom	2.1	1	25.0	8.0	29.9	6.5	93.0	2.2	4.0					
							2	25.0	8.0	29.9	6.5	93.4	2.2	3.7					
2023-05-10	Mid-Flood	TCE-C1	Cloudy	Moderate	9:59	8.8	Surface	1.0	1	25.1	8.1	33.1	6.4	93.3	5.5	7.1	6.3	7.5	6.7
									2	25.1	8.1	33.1	6.4	93.2	5.5	7.1			
							Middle	4.4	1	25.1	8.0	33.2	6.3	91.5	8.8	6.8			
							Bottom	7.8	1	25.1	8.0	33.1	6.3	91.6	8.3	6.4			
				2	25.0	8.0	33.0	6.3	92.6	8.3	6.4								
				2	25.0	8.0	33.1	6.3	92.7	8.5	6.3								
		TCE-C2	Cloudy	Moderate	8:04	14.5	Surface	1.0	1	24.9	8.0	32.5	5.8	84.2	3.7	2.3	5.8	3.9	2.8
									2	24.9	8.0	32.6	5.8	84.1	3.7	2.5			
							Middle	7.3	1	24.9	8.0	32.8	5.8	83.7	3.8	2.7			
							Bottom	13.5	1	24.9	8.0	32.8	5.8	83.8	4.1	3.3			
				2	24.9	8.0	32.8	5.8	83.8	4.1	3.2								
		TCE-WQM1	Cloudy	Moderate	9:09	8.4	Surface	1.0	1	25.0	8.0	30.2	6.3	90.2	5.2	6.1	6.3	6.2	6.9
								2	25.0	8.0	30.2	6.3	90.3	5.4	6.5				
	Middle						4.2	1	25.0	8.0	30.3	6.4	91.3	5.5	7.0				
	Bottom						7.4	1	25.0	8.0	30.3	6.4	91.3	5.5	6.6				
			2	25.0	8.0	30.3	6.4	92.1	7.7	7.4									
			2	25.0	7.9	30.3	6.4	92.5	7.8	7.8									
	TCE-WQM2a	Cloudy	Moderate	8:39	7.3	Surface	1.0	1	25.1	8.0	30.5	6.2	89.1	2.2	3.6	6.2	5.4	4.5	
								2	25.1	8.0	30.5	6.2	89.1	2.2	4.1				
						Middle	3.7	1	25.0	8.0	30.5	6.2	88.7	6.2	4.6				
						Bottom	6.3	1	25.0	8.0	30.5	6.2	88.7	7.3	4.4				
			2	25.0	8.0	30.5	6.2	88.6	7.8	4.8									
			2	25.0	8.0	30.5	6.2	88.7	6.6	5.2									
	TCE-WQM2b	Cloudy	Moderate	8:27	11.1	Surface	1.0	1	25.0	8.0	30.9	6.2	89.1	3.0	2.3	6.2	3.0	3.3	
							2	25.0	8.0	31.0	6.2	89.1	3.0	2.6					
Middle						5.6	1	25.0	8.0	31.1	6.2	89.2	3.0	3.0					
Bottom						10.1	1	25.0	8.0	31.1	6.2	89.3	3.0	3.5					
		2	25.0	8.0	31.1	6.3	90.6	3.0	4.1										
		2	25.0	8.0	31.1	6.3	91.1	3.0	4.5										
TCE-WQM3A	Cloudy	Moderate	8:49	4.6	Surface	1.0	1	25.0	8.0	29.9	6.1	87.6	6.1	3.0	6.1	8.3	3.3		
							2	25.0	8.0	29.9	6.1	87.7	6.4	2.7					
					Bottom	3.6	1	25.0	8.0	30.0	6.2	88.7	10.0	3.9					
							2	25.0	8.0	30.0	6.2	88.9	10.7	3.5					
TCE-WQM4	Cloudy	Moderate	8:59	3.4	Surface	1.0	1	25.0	8.0	29.7	6.3	90.2	3.9	7.8	6.3	6.2	8.1		
							2	25.0	8.0	29.7	6.3	90.4	3.9	7.6					
					Bottom	2.4	1	25.0	8.0	29.9	6.4	92.0	8.5	8.2					
							2	25.0	8.0	29.9	6.4	92.2	8.7	8.6					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged								
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)						
2023-05-12	Mid-Ebb	TCE-C1	Fine	Rough	16:43	7.8	Surface	1.0	1	24.6	8.2	29.9	6.4	90.9	3.5	2.3	6.3	6.3	3.0						
									2	24.6	8.2	29.9	6.4	90.9	3.5	2.5									
							Middle	3.9	1	24.6	8.2	30.0	6.2	88.9	6.7	3.0									
							Bottom	6.8	1	24.6	8.2	30.1	6.2	88.8	6.8	3.5									
						2	24.6	8.2	30.1	6.2	88.3	8.7	4.0	6.2											
				2	24.6	8.2	30.1	6.2	88.3	8.7	2.8														
		Surface	1.0	1	24.8	8.2	32.0	6.5	93.3	2.2	2.7														
				2	24.8	8.2	32.0	6.5	93.3	2.2	2.2														
				Middle	6.5	1	24.8	8.2	32.4	5.9	85.3	1.7	3.5	6.2											
						2	24.8	8.2	32.4	5.9	85.3	1.7	2.8												
		Bottom	11.9	1	24.7	8.2	33.2	5.8	83.3	3.4	3.5														
				2	24.7	8.2	33.2	5.8	83.3	3.5	4.3														
				TCE-WQM1	Fine	Moderate	17:27	9.2	Surface	1.0	1	24.7	8.2	29.7	6.4	90.6	2.7	3.2	6.3						
										2	24.7	8.2	29.7	6.4	90.6	2.8	3.1								
				Middle					4.6	1	24.7	8.2	29.7	6.3	89.7	4.0	3.2	6.3							
										2	24.7	8.2	29.7	6.3	89.6	4.0	4.0								
		Bottom	8.2	1	24.7	8.2	29.8	6.2	88.6	4.5	2.5														
				2	24.7	8.2	29.8	6.2	88.6	4.5	2.8														
				TCE-WQM2a	Fine	Rough	18:06	6.9	Surface	1.0	1	24.8	8.2	30.1	6.1	86.7	2.1	2.7	6.0						
										2	24.8	8.2	30.1	6.1	86.7	2.1	3.2								
				Middle					3.5	1	24.8	8.2	30.2	6.0	85.8	3.0	5.1	6.0							
										2	24.8	8.2	30.2	6.0	85.8	3.1	4.2								
		Bottom	5.9	1	24.9	8.2	30.8	5.7	82.3	5.5	4.3														
				2	24.9	8.2	30.8	5.7	82.3	5.6	3.2														
			TCE-WQM2b	Fine	Rough	18:19	9.3	Surface	1.0	1	24.8	8.2	30.1	6.3	90.6	1.5	2.8	6.2							
									2	24.8	8.2	30.1	6.3	90.7	1.5	2.8									
			Middle					4.7	1	24.8	8.2	30.8	6.1	87.6	1.7	2.7	6.2								
									2	24.8	8.2	30.8	6.1	87.6	1.7	2.5									
	Bottom	8.3	1	24.8	8.2	32.4	5.7	83.2	3.6	3.5															
			2	24.8	8.2	32.4	5.7	83.2	3.6	3.1															
			TCE-WQM3A	Fine	Moderate	17:54	4.8	Surface	1.0	1	24.8	8.2	29.6	6.3	90.2	1.9	6.9	6.3							
									2	24.8	8.2	29.6	6.3	90.2	1.9	3.7									
			Bottom					3.8	1	24.7	8.2	30.2	6.1	86.5	4.1	4.5	6.1								
									2	24.7	8.2	30.2	6.1	86.5	4.3	3.6									
			TCE-WQM4	Fine	Moderate	17:40	3.9	Surface	1.0	1	24.8	8.2	29.6	6.3	90.0	2.0		2.9	6.3						
									2	24.8	8.2	29.6	6.3	90.0	2.0	3.3									
			Bottom					2.9	1	24.7	8.2	30.1	6.2	88.5	2.2	2.5	6.2								
									2	24.7	8.2	30.1	6.2	88.5	2.2	3.5									
	2023-05-12	Mid-Flood	TCE-C1	Fine	Rough	7:24	8.1	Surface	1.0	1	24.7	8.2	29.6	6.4	90.8	1.8			2.1	6.4					
												2	24.7	8.2	29.6	6.4			90.8					1.9	2.2
										Middle	4.1	1	24.7	8.2	29.7	6.3	90.3	3.9	2.0		6.4				
												2	24.7	8.2	29.7	6.3	90.3	3.9	1.8						
			Bottom	7.1	1	24.7	8.2	30.2	6.1	86.6	5.7	2.1													
					2	24.7	8.2	30.2	6.1	86.6	5.7	2.8													
					TCE-C2	Fine	Moderate	5:19	13.8	Surface	1.0	1	24.8	8.2	30.6	6.2	88.4	1.8	3.4	6.0					
											2	24.8	8.2	30.6	6.2	88.3	1.8	2.7							
					Middle					6.9	1	24.9	8.2	31.8	5.7	83.0	2.2	3.7	6.0						
											2	24.9	8.2	31.8	5.7	83.0	2.2	4.3							
Bottom			12.8	1	24.7	8.2	33.1	5.6	81.6	2.8	3.1														
				2	24.7	8.2	33.1	5.6	81.6	2.8	3.4														
				TCE-WQM1	Fine	Moderate	6:32	9.7	Surface	1.0	1	24.8	8.2	29.6	6.3	89.2	3.0	3.3	6.2						
										2	24.8	8.2	29.6	6.3	89.2	3.1	2.5								
				Middle					4.9	1	24.7	8.2	30.2	6.1	86.7	4.6	3.9	6.2							
										2	24.7	8.2	30.2	6.1	86.7	4.6	4.8								
Bottom			8.7	1	24.9	8.2	30.9	5.7	82.3	8.2	3.6														
				2	24.9	8.2	30.9	5.7	82.3	8.3	3.8														
				TCE-WQM2a	Fine	Moderate	5:56	7.7	Surface	1.0	1	24.9	8.2	29.1	6.2	88.8	1.9	2.5	6.1						
										2	24.9	8.2	29.1	6.2	88.8	1.9	4.3								
				Middle					3.9	1	24.9	8.2	30.6	5.9	85.0	2.9	2.8	6.1							
										2	24.9	8.2	30.6	5.9	85.0	3.0	3.8								
Bottom			6.7	1	24.9	8.2	31.1	5.8	84.1	3.7	3.1														
				2	24.9	8.2	31.2	5.8	84.2	3.7	4.1														
			TCE-WQM2b	Fine	Moderate	5:44	10.7	Surface	1.0	1	24.8	8.2	30.3	6.2	88.7	2.1	5.0	6.2							
									2	24.8	8.2	30.3	6.2	88.7	2.1	3.7									
			Middle					5.4	1	24.8	8.2	30.8	6.2	88.3	1.6	3.8	6.2								
									2	24.8	8.2	30.8	6.2	88.3	1.6	2.8									
Bottom		9.7	1	24.8	8.2	30.8	6.1	88.2	1.7	3.2															
			2	24.8	8.2	30.8	6.1	88.2	1.7	3.0															
			TCE-WQM3A	Fine	Calm	6:09	5.1	Surface	1.0	1	24.9	8.2	27.9	6.5	91.3	1.6	3.9	6.5							
									2	24.9	8.2	27.9	6.5	91.3	1.6	2.8									
			Bottom					4.1	1	24.9	8.2	29.8	6.1	87.1	2.2	3.9	6.1								
									2	24.9	8.2	29.8	6.1	87.1	2.2	2.9									
			TCE-WQM4	Fine	Calm	6:20	4.5	Surface	1.0	1	24.7	8.2	30.1	6.2	87.8	2.0		3.5	6.2						
									2	24.7	8.2	30.1	6.2	87.8	2.1	4.9									
			Bottom					3.5	1	24.8	8.2	30.8	5.8	83.9	4.1	3.6	5.8								
									2	24.8	8.2	30.8	5.8	83.9	4.1	2.5									

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-15	Mid-Ebb	TCE-C1	Fine	Moderate	11:33	8.1	Surface	1.0	1	24.3	7.9	27.8	5.9	82.0	1.7	1.6	5.8	2.7	2.0
									2	24.3	7.9	27.8	5.9	82.0	1.7	1.8			
							Middle	4.1	1	24.0	7.9	28.0	5.8	81.1	2.0	1.8			
							Bottom	7.1	1	24.1	7.9	28.2	5.9	82.2	4.5	2.3			
				2	24.1	7.9	28.2	5.9	82.2	4.5	2.5								
		TCE-C2	Fine	Moderate	9:23	13.9	Surface	1.0	1	24.1	7.8	29.4	5.9	82.9	1.8	1.4	5.8	1.9	1.9
									2	24.2	7.8	29.3	5.9	82.9	1.7	1.5			
							Middle	7.0	1	23.9	7.8	30.6	5.7	80.9	1.4	1.7			
							Bottom	12.9	1	23.9	7.8	30.6	5.7	80.9	1.5	1.9			
				2	23.9	7.8	30.8	5.6	79.3	2.6	2.2								
				2	23.9	7.8	30.8	5.6	79.3	2.6	2.5								
		TCE-WQM1	Fine	Calm	10:39	10.2	Surface	1.0	1	24.1	7.9	27.6	6.3	89.8	1.9	1.9	6.1	2.3	2.5
								2	24.1	7.9	27.6	6.3	89.7	1.9	1.8				
	Middle						5.1	1	24.1	7.9	27.6	6.0	83.8	2.1	2.4				
	Bottom						9.2	1	24.1	7.9	27.6	6.0	83.8	2.1	2.1				
			2	24.1	7.9	28.5	5.6	78.8	2.8	3.1									
			2	24.1	7.9	28.5	5.6	79.0	2.9	3.6									
	TCE-WQM2a	Fine	Calm	9:57	7.2	Surface	1.0	1	24.2	7.9	28.0	6.4	90.8	1.5	2.2	6.1	1.5	1.9	
								2	24.2	7.9	28.0	6.4	90.8	1.5	2.4				
						Middle	3.6	1	24.1	7.9	28.8	5.8	81.2	1.9	1.9				
						Bottom	6.2	1	24.1	7.9	28.8	5.8	81.2	1.9	1.7				
			2	24.0	7.9	29.0	5.7	80.7	1.1	1.6									
			2	24.0	7.9	29.1	5.7	80.7	1.1	1.4									
	TCE-WQM2b	Fine	Moderate	9:46	10.2	Surface	1.0	1	24.2	7.9	28.6	6.2	86.3	1.7	1.4	6.0	2.6	1.6	
							2	24.2	7.9	28.6	6.2	86.3	1.8	1.2					
Middle						5.1	1	24.1	7.9	29.9	5.8	81.8	2.9	1.6					
Bottom						9.2	1	24.1	7.9	29.9	5.8	81.8	2.9	1.7					
		2	24.0	7.9	30.6	5.6	79.5	3.1	1.9										
		2	24.0	7.9	30.6	5.6	79.5	3.2	1.6										
TCE-WQM3A	Fine	Calm	10:09	5.3	Surface	1.0	1	24.2	7.9	27.6	6.0	83.2	3.4	2.0	6.0	4.1	2.5		
							2	24.2	7.9	27.6	6.0	83.2	3.4	2.3					
					Bottom	4.3	1	24.2	7.9	28.6	5.8	81.1	4.7	3.0					
		2	24.2	7.9	28.6	5.8	81.1	4.7	2.7										
TCE-WQM4	Fine	Calm	10:22	4.4	Surface	1.0	1	24.0	7.9	28.2	6.1	86.8	5.7	2.2	6.1	4.2	2.1		
							2	24.0	7.9	28.2	6.1	86.8	5.7	2.5					
					Bottom	3.4	1	24.2	7.9	29.1	5.7	79.9	2.8	1.8					
		2	24.2	7.9	29.1	5.7	79.9	2.8	1.9										
2023-05-15	Mid-Flood	TCE-C1	Fine	Rough	14:05	7.5	Surface	1.0	1	23.9	8.0	28.5	6.1	85.7	1.9	1.3	6.1	2.6	1.9
									2	23.9	8.0	28.5	6.1	85.7	1.9	1.5			
							Middle	3.8	1	23.8	8.0	28.8	6.1	85.4	2.4	1.7			
							Bottom	6.5	1	23.8	8.0	28.8	6.1	85.4	2.5	1.9			
				2	23.8	8.0	29.1	6.1	85.8	3.5	2.2								
				2	23.8	8.0	29.1	6.1	85.8	3.6	2.6								
		TCE-C2	Fine	Moderate	16:09	13.2	Surface	1.0	1	24.3	8.0	28.6	5.9	82.8	1.7	2.4	5.8	2.1	1.9
									2	24.3	8.0	28.6	5.9	82.8	1.7	2.1			
							Middle	6.6	1	24.2	8.0	29.1	5.7	80.5	2.8	1.8			
							Bottom	12.2	1	24.2	8.0	29.1	5.7	80.6	2.8	1.8			
				2	24.1	8.0	29.5	5.7	79.8	1.8	1.6								
				2	24.1	8.0	29.4	5.7	80.1	1.9	1.7								
	TCE-WQM1	Fine	Moderate	14:52	9.7	Surface	1.0	1	24.0	8.0	28.7	6.2	86.8	2.5	1.8	6.2	2.9	2.1	
								2	24.0	8.0	28.7	6.2	86.8	2.5	1.6				
						Middle	4.9	1	23.9	8.0	29.0	6.2	86.5	2.6	2.1				
						Bottom	8.7	1	23.9	8.0	29.0	6.2	86.5	2.5	2.2				
			2	23.8	8.0	29.1	6.2	86.2	3.6	2.5									
			2	23.8	8.0	29.1	6.2	86.2	3.7	2.5									
	TCE-WQM2a	Fine	Moderate	15:33	6.9	Surface	1.0	1	24.1	7.9	28.6	6.5	91.8	2.9	2.5	6.1	4.2	2.2	
								2	24.1	7.9	28.6	6.5	91.8	2.9	2.8				
						Middle	3.5	1	24.1	8.0	29.2	5.8	81.8	4.0	2.3				
						Bottom	5.9	1	24.1	8.0	29.2	5.7	81.3	4.1	2.1				
			2	24.1	8.0	29.4	5.6	78.9	5.6	1.6									
			2	24.1	8.0	29.4	5.6	78.9	5.6	1.9									
TCE-WQM2b	Fine	Moderate	15:46	9.9	Surface	1.0	1	24.3	8.0	28.9	6.2	87.1	1.9	2.8	6.1	1.7	2.5		
							2	24.2	8.0	28.9	6.2	87.1	1.9	3.3					
					Middle	5.0	1	24.1	8.0	29.2	6.0	84.2	1.6	2.6					
					Bottom	8.9	1	24.1	8.0	29.2	6.0	84.3	1.6	2.4					
		2	24.0	8.0	30.4	5.6	79.5	1.6	1.8										
		2	24.0	8.0	30.4	5.6	79.5	1.6	1.8										
TCE-WQM3A	Fine	Moderate	15:22	4.1	Surface	1.0	1	24.3	8.0	28.1	6.0	84.1	2.8	1.9	6.0	3.3	1.7		
							2	24.2	8.0	28.2	6.0	84.1	2.8	1.8					
					Bottom	3.1	1	24.1	8.0	28.6	5.9	82.9	3.7	1.6					
		2	24.1	8.0	28.7	5.9	83.0	3.8	1.5										
TCE-WQM4	Fine	Moderate	15:08	4.9	Surface	1.0	1	24.1	8.0	27.9	6.0	83.3	1.1	1.7	6.0	1.7	2.0		
							2	24.1	8.0	27.9	6.0	83.3	1.1	1.8					
					Bottom	3.9	1	24.2	8.0	28.1	6.0	83.9	2.2	2.4					
		2	24.2	8.0	28.1	6.0	83.9	2.2	2.2										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-17	Mid-Ebb	TCE-C1	Rainy	Calm	11:46	8.0	Surface	1.0	1	24.2	7.9	27.7	6.4	89.2	1.8	3.5	6.4	2.4	3.0
									2	24.2	7.9	27.9	6.4	89.2	1.8	3.2			
							Middle	4.0	1	24.1	7.9	28.5	6.5	90.6	2.1	3.1			
							Bottom	7.0	1	24.1	7.9	28.5	6.5	90.8	2.1	2.9			
				2	24.1	7.9	28.5	6.6	92.5	3.4	2.5								
				2	24.1	7.9	28.4	6.7	93.3	3.5	2.7								
		TCE-C2	Rainy	Calm	10:06	12.0	Surface	1.0	1	24.2	7.8	27.3	6.4	89.2	1.1	2.5	6.4	1.2	2.8
									2	24.2	7.8	27.3	6.4	89.0	1.1	2.3			
							Middle	6.0	1	24.1	7.8	27.3	6.4	88.8	1.2	2.5			
							Bottom	11.0	1	24.1	7.8	27.3	6.4	89.0	1.2	2.8			
				2	24.1	7.8	26.8	6.5	89.7	1.2	3.4								
				2	24.0	7.8	26.8	6.5	90.0	1.2	3.2								
	TCE-WQM1	Rainy	Calm	11:19	8.6	Surface	1.0	1	24.2	7.9	26.6	6.5	90.3	1.1	2.2	6.5	1.4	2.6	
								2	24.2	7.9	26.7	6.5	90.2	1.1	2.4				
						Middle	4.3	1	24.2	7.9	27.0	6.5	89.9	1.1	2.6				
						Bottom	7.6	1	24.2	7.9	27.0	6.5	89.8	1.1	2.7				
			2	24.1	7.9	27.1	6.5	90.2	1.9	2.7									
			2	24.1	7.9	27.1	6.7	93.0	1.9	3.0									
	TCE-WQM2a	Rainy	Calm	10:48	6.4	Surface	1.0	1	24.2	7.8	26.4	6.2	86.0	3.9	3.5	6.1	4.5	4.0	
								2	24.2	7.8	26.4	6.2	86.0	3.9	3.3				
						Middle	3.2	1	24.0	7.8	29.0	6.0	84.8	4.7	4.0				
						Bottom	5.4	1	24.0	7.8	29.1	6.0	84.7	4.7	3.8				
			2	24.0	7.8	29.6	6.0	84.2	5.0	4.8									
			2	24.0	7.8	29.7	6.0	84.2	5.1	4.4									
TCE-WQM2b	Rainy	Calm	10:37	10.8	Surface	1.0	1	24.2	7.8	27.9	6.2	87.1	1.8	3.5	6.2	2.4	3.2		
							2	24.1	7.8	28.1	6.2	87.0	1.9	3.9					
					Middle	5.4	1	24.1	7.8	28.6	6.2	87.0	2.4	3.3					
					Bottom	9.8	1	24.1	7.8	28.6	6.2	87.1	2.5	3.0					
		2	24.1	7.8	28.7	6.3	88.0	3.0	2.8										
		2	24.1	7.8	28.6	6.5	91.2	3.0	2.5										
TCE-WQM3A	Rainy	Calm	10:58	4.4	Surface	1.0	1	24.2	7.8	26.8	6.5	90.7	1.9	3.6	6.5	2.0	3.2		
							2	24.2	7.8	26.9	6.5	90.8	2.0	3.2					
					Bottom	3.4	1	24.2	7.8	27.2	6.6	91.4	2.1	2.8					
							2	24.2	7.8	27.0	6.6	91.5	2.0	3.0					
TCE-WQM4	Rainy	Calm	11:07	4.0	Surface	1.0	1	24.2	7.9	26.3	6.8	93.8	1.5	2.4	6.8	1.6	2.7		
							2	24.2	7.9	26.3	6.8	93.9	1.6	2.2					
					Bottom	3.0	1	24.2	7.9	26.7	7.0	96.7	1.7	2.8					
							2	24.2	7.9	26.5	7.0	97.5	1.7	3.3					
2023-05-17	Mid-Flood	TCE-C1	Rainy	Calm	16:06	8.6	Surface	1.0	1	24.2	7.9	28.0	6.3	87.6	1.8	4.2	6.2	2.5	5.3
									2	24.2	7.9	28.1	6.3	87.5	1.8	3.8			
							Middle	4.3	1	24.1	7.9	28.9	6.2	87.1	2.4	5.4			
							Bottom	7.6	1	24.1	7.9	28.9	6.2	87.4	2.4	5.8			
				2	24.1	7.9	28.9	6.4	89.4	3.2	6.6								
				2	24.2	7.9	28.8	6.4	89.8	3.2	6.1								
		TCE-C2	Rainy	Calm	17:28	13.6	Surface	1.0	1	24.0	7.9	29.4	6.2	87.0	3.5	8.5	6.2	4.3	7.5
									2	24.0	7.9	29.6	6.2	86.9	3.5	8.0			
							Middle	6.8	1	23.9	7.9	30.0	6.2	87.1	4.2	7.2			
							Bottom	12.6	1	23.9	7.9	30.0	6.3	88.0	4.2	7.6			
				2	23.6	7.9	30.2	6.5	91.7	5.2	7.0								
				2	23.5	7.9	30.2	6.6	92.5	5.2	6.6								
	TCE-WQM1	Rainy	Calm	16:34	9.2	Surface	1.0	1	24.2	7.9	26.3	6.6	91.6	1.9	2.9	6.6	2.1	3.4	
								2	24.2	7.9	26.4	6.6	91.5	2.0	2.7				
						Middle	4.6	1	24.3	7.9	26.6	6.7	92.3	2.2	3.2				
						Bottom	8.2	1	24.3	7.9	26.6	6.7	92.5	2.2	3.5				
			2	24.1	7.9	26.6	6.7	93.4	2.2	3.8									
			2	24.1	7.9	26.7	6.8	93.7	2.2	4.3									
	TCE-WQM2a	Rainy	Calm	16:56	7.6	Surface	1.0	1	24.3	7.9	27.0	6.4	89.8	1.1	4.8	6.5	1.2	5.9	
								2	24.3	7.9	27.0	6.4	89.8	1.1	5.2				
						Middle	3.8	1	24.3	7.9	27.0	6.5	90.9	1.1	6.0				
						Bottom	6.6	1	24.3	7.9	26.9	6.6	91.2	1.1	5.6				
			2	24.3	7.9	26.5	6.6	92.1	1.4	7.1									
			2	24.3	7.9	26.4	6.6	92.3	1.4	6.5									
TCE-WQM2b	Rainy	Calm	17:08	10.8	Surface	1.0	1	24.2	7.9	27.3	6.5	90.3	1.1	3.8	6.5	1.5	3.2		
							2	24.2	7.9	27.4	6.5	90.6	1.1	3.6					
					Middle	5.4	1	24.2	7.9	27.5	6.6	91.8	1.2	3.1					
					Bottom	9.8	1	24.2	7.9	27.5	6.6	92.0	1.2	3.4					
		2	24.2	7.9	27.6	6.7	93.2	2.3	2.8										
		2	24.2	7.9	27.6	6.7	93.7	2.2	2.6										
TCE-WQM3A	Rainy	Calm	16:50	4.6	Surface	1.0	1	24.3	7.9	26.7	6.7	93.4	1.7	3.1	6.7	1.9	4.6		
							2	24.3	7.9	26.8	6.7	93.5	1.7	3.4					
					Bottom	3.6	1	24.3	7.9	26.9	6.9	95.9	2.1	5.7					
							2	24.3	7.9	27.0	6.9	96.4	2.1	6.0					
TCE-WQM4	Rainy	Calm	16:44	4.0	Surface	1.0	1	24.0	7.9	26.7	6.7	93.1	2.3	7.4	6.7	2.5	6.6		
							2	24.0	7.9	26.8	6.8	93.3	2.3	6.8					
					Bottom	3.0	1	23.6	7.9	27.1	7.2	98.8	2.7	6.4					
							2	23.5	7.9	27.1	7.2	99.0	2.7	5.9					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-19	Mid-Ebb	TCE-C1	Misty	Calm	12:29	8.2	Surface	1.0	1	25.7	7.8	25.6	7.1	100.1	5.0	2.5	7.0	5.3	2.3
									2	25.7	7.8	25.6	7.0	99.8	5.2	2.4			
							Middle	4.1	1	25.8	7.8	25.6	7.0	99.4	5.3	1.6			
							Bottom	7.2	1	25.9	7.8	25.6	7.0	99.3	5.3	1.9			
				2	25.9	7.8	25.5	7.0	99.3	5.4	2.6								
				2	26.1	7.8	25.5	7.0	99.3	5.4	2.9								
		TCE-C2	Misty	Calm	11:12	14.4	Surface	1.0	1	24.7	7.8	25.2	6.6	91.4	3.4	2.5	6.3	4.1	2.5
									2	24.6	7.8	25.3	6.5	90.4	3.6	2.0			
							Middle	7.2	1	24.3	7.7	27.4	6.0	84.0	4.4	3.1			
							Bottom	13.4	1	24.3	7.7	27.3	6.0	84.1	4.5	2.8			
				2	24.4	7.7	26.1	6.2	86.4	4.5	2.7								
				2	24.4	7.7	25.8	6.3	86.7	4.4	2.1								
	TCE-WQM1	Misty	Calm	12:10	8.0	Surface	1.0	1	25.7	7.8	25.6	7.1	100.2	6.6	2.1	7.0	7.8	2.7	
								2	25.7	7.8	25.6	7.1	99.9	6.7	2.9				
						Middle	4.0	1	25.6	7.8	25.6	7.0	98.8	7.7	2.4				
						Bottom	7.0	1	25.7	7.8	25.6	7.0	98.7	7.9	2.6				
			2	26.0	7.8	25.4	6.9	98.2	8.9	2.8									
			2	26.1	7.8	25.4	6.9	98.2	8.8	3.1									
	TCE-WQM2a	Misty	Calm	11:43	7.4	Surface	1.0	1	24.9	7.8	26.8	6.2	87.6	2.9	3.0	6.2	4.2	2.4	
								2	24.9	7.8	26.8	6.2	87.6	2.9	2.4				
						Middle	3.7	1	24.8	7.8	27.4	6.2	87.7	4.4	1.8				
						Bottom	6.4	1	24.8	7.8	27.4	6.3	88.1	4.5	1.8				
			2	24.7	7.8	27.5	6.4	90.2	4.9	2.9									
			2	24.7	7.8	27.5	6.4	90.6	5.4	2.4									
TCE-WQM2b	Misty	Calm	11:38	10.4	Surface	1.0	1	25.3	7.8	26.0	6.4	89.9	2.9	2.6	6.2	3.8	2.6		
							2	25.3	7.8	26.0	6.4	89.7	3.0	2.9					
					Middle	5.2	1	24.8	7.8	27.3	6.1	85.9	5.1	2.2					
					Bottom	9.4	1	24.8	7.8	27.3	6.1	85.8	5.2	3.0					
		2	24.7	7.8	27.4	6.1	85.7	3.2	2.7										
		2	24.7	7.7	27.4	6.1	86.0	3.1	2.4										
TCE-WQM3A	Misty	Calm	11:52	4.8	Surface	1.0	1	25.7	7.8	25.1	6.7	94.4	1.8	2.9	6.7	1.9	2.2		
							2	25.7	7.8	25.1	6.7	94.2	1.9	2.1					
					Bottom	3.8	1	26.1	7.8	24.9	6.6	94.2	2.1	1.7					
		2	26.2	7.8	24.8	6.6	94.4	1.9	2.2										
TCE-WQM4	Misty	Calm	12:01	4.2	Surface	1.0	1	25.8	7.8	25.6	6.6	93.2	3.7	2.5	6.6	4.9	2.4		
							2	25.8	7.7	25.6	6.6	93.0	4.0	1.9					
					Bottom	3.2	1	26.1	7.7	25.4	6.6	93.4	5.9	2.2					
							2	26.2	7.7	25.4	6.6	94.2	6.0	2.9					
2023-05-19	Mid-Flood	TCE-C1	Misty	Calm	18:04	8.4	Surface	1.0	1	25.7	7.8	25.5	7.1	100.4	4.1	2.4	6.9	4.5	2.2
									2	25.6	7.8	25.5	7.1	99.9	4.0	2.6			
							Middle	4.2	1	25.6	7.8	25.5	6.7	95.1	4.3	1.7			
							Bottom	7.4	1	25.6	7.8	25.5	6.7	94.5	4.6	2.0			
				2	25.7	7.7	25.5	6.6	94.0	5.1	1.7								
				2	25.7	7.7	25.5	6.8	96.1	5.2	2.5								
		TCE-C2	Misty	Calm	19:26	13.2	Surface	1.0	1	25.3	7.9	26.1	6.5	91.0	3.9	2.9	6.5	6.5	2.6
									2	25.2	7.9	26.2	6.5	91.0	3.9	3.4			
							Middle	6.6	1	25.2	7.9	26.2	6.5	92.0	3.6	2.3			
							Bottom	12.2	1	25.2	7.9	26.3	6.5	92.1	3.5	1.9			
				2	25.2	7.9	26.2	6.6	92.5	11.8	2.1								
				2	25.2	7.9	26.1	6.6	93.2	12.1	2.7								
	TCE-WQM1	Misty	Calm	18:32	7.2	Surface	1.0	1	25.8	7.8	25.7	6.9	98.5	4.9	2.0	6.9	4.9	2.5	
								2	25.8	7.8	25.7	6.9	98.4	4.9	2.0				
						Middle	3.6	1	25.8	7.8	25.7	6.9	98.2	4.8	3.0				
						Bottom	6.2	1	25.8	7.8	25.7	6.9	98.4	4.9	2.5				
			2	25.8	7.8	25.7	7.0	98.7	5.1	3.0									
			2	25.8	7.8	25.7	7.0	98.7	5.1	2.3									
	TCE-WQM2a	Misty	Calm	18:54	7.8	Surface	1.0	1	25.2	7.8	26.4	6.3	89.2	3.2	3.1	6.3	5.8	3.0	
								2	25.2	7.8	26.4	6.3	89.2	3.2	3.0				
						Middle	3.9	1	24.9	7.7	27.2	6.3	89.0	3.8	2.8				
						Bottom	6.8	1	24.8	7.7	27.3	6.3	89.1	4.2	2.7				
			2	24.8	7.7	27.5	6.4	89.5	10.2	3.0									
			2	24.8	7.7	27.5	6.4	90.1	10.2	3.2									
TCE-WQM2b	Misty	Calm	19:06	9.4	Surface	1.0	1	25.2	7.8	26.2	6.4	89.9	3.4	2.3	6.4	3.9	2.2		
							2	25.1	7.8	26.4	6.4	89.9	3.5	1.8					
					Middle	4.7	1	25.0	7.8	26.8	6.4	90.0	3.9	2.1					
					Bottom	8.4	1	24.9	7.8	26.9	6.4	90.1	4.1	1.9					
		2	24.9	7.8	26.9	6.5	91.2	4.2	2.6										
		2	24.9	7.8	26.9	6.5	92.0	4.2	2.5										
TCE-WQM3A	Misty	Calm	18:48	4.0	Surface	1.0	1	25.9	7.8	25.7	6.9	98.5	12.2	3.2	6.9	11.7	2.3		
							2	25.9	7.8	25.7	6.9	98.4	12.1	2.2					
					Bottom	3.0	1	25.9	7.7	25.7	6.9	98.2	11.5	2.1					
		2	25.9	7.7	25.7	6.9	98.4	11.2	1.6										
TCE-WQM4	Misty	Calm	18:42	4.2	Surface	1.0	1	25.8	7.8	25.7	6.8	96.2	6.6	2.0	6.8	6.6	2.2		
							2	25.9	7.8	25.6	6.7	95.9	7.5	1.8					
					Bottom	3.2	1	26.3	7.8	25.5	6.7	96.0	6.3	2.8					
		2	26.4	7.8	25.4	6.7	96.3	6.1	2.1										

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2023-05-22	Mid-Ebb	TCE-C1	Sunny	Moderate	13:02	8.2	Surface	1.0	1	26.9	8.0	25.4	7.3	106.6	2.9	2.5	7.2	2.9	2.8	
									2	26.9	8.0	25.4	7.3	106.6	2.9	3.0				
							Middle	4.1	1	26.9	8.0	25.4	7.1	103.8	3.0	2.8				
							Bottom	7.2	1	26.9	8.0	25.4	7.1	103.7	3.0	3.2				
										2	26.9	8.0	25.4	7.1	101.9	2.8	2.2	7.1		
				2	26.9	8.0	25.4	7.1	101.9	2.8	3.2									
		Surface	1.0	1	27.0	8.1	24.4	8.5	121.9	1.1	2.2									
				2	26.9	8.1	24.5	8.5	121.9	1.1	2.1									
										1	26.1	8.1	26.2	7.5	107.0	1.5	2.5	8.0	1.7	2.7
				2	26.1	8.1	26.2	7.5	107.1	1.5	2.8									
		Middle	6.4	1	26.1	8.1	26.2	7.5	107.1	1.5	2.8									
		Bottom	11.8	1	25.3	8.0	28.5	6.4	91.6	2.5	3.1									
										2	25.4	8.0	28.5	6.4	91.7	2.5	3.5	6.4		
				2	25.4	8.0	28.5	6.4	91.7	2.5	3.5									
		Surface	1.0	1	27.5	8.1	25.5	9.1	134.3	1.6	2.9									
				2	27.6	8.1	25.5	9.1	134.1	1.6	3.2									
										1	27.4	8.2	25.7	9.1	133.2	1.8	2.7	9.1	2.2	2.6
				2	27.3	8.2	25.8	9.1	133.1	1.8	2.4									
		Middle	4.6	1	27.4	8.2	25.7	9.1	133.2	1.8	2.7									
		Bottom	8.1	1	27.2	8.0	25.9	8.2	119.4	3.1	2.2									
										2	27.2	8.0	25.9	8.2	119.3	3.2	2.4	8.2		
				2	27.2	8.0	25.9	8.2	119.3	3.2	2.4									
		Surface	1.0	1	26.7	8.0	25.4	7.5	108.3	1.4	1.7									
				2	26.7	8.0	25.4	7.5	108.3	1.4	1.8									
									1	26.0	8.0	26.6	7.0	99.8	1.4	2.3	7.2	2.2	2.2	
			2	26.0	8.0	26.6	7.0	99.7	1.4	2.1										
	Middle	3.5	1	26.0	8.0	26.6	7.0	99.8	1.4	2.3										
	Bottom	5.9	1	25.5	8.0	27.9	6.5	92.4	3.9	2.4										
									2	25.5	8.0	27.9	6.5	92.5	3.9	2.7	6.5			
			2	25.5	8.0	27.9	6.5	92.5	3.9	2.7										
	Surface	1.0	1	26.3	8.0	26.0	7.0	99.9	1.6	1.5										
			2	26.2	8.0	26.1	7.0	99.8	1.7	1.8										
									1	25.9	8.0	26.8	6.6	94.1	2.4	2.4	6.8	2.4	2.1	
			2	25.9	8.0	26.7	6.6	94.4	2.4	2.1										
	Middle	4.9	1	25.9	8.0	26.8	6.6	94.1	2.4	2.4										
	Bottom	8.7	1	25.6	8.0	27.5	6.4	91.4	3.1	2.4										
									2	25.6	8.0	27.6	6.4	91.5	3.1	2.6	6.4			
			2	25.6	8.0	27.6	6.4	91.5	3.1	2.6										
	Surface	1.0	1	26.0	8.0	26.5	7.0	100.0	1.6	2.2										
			2	26.0	8.0	26.7	7.0	99.9	1.6	2.1										
									1	25.6	8.0	27.8	6.5	93.4	1.8	3.0	7.0	1.7	2.5	
			2	25.6	8.0	27.8	6.5	93.3	1.8	2.8										
	Middle	3.4	1	25.6	8.0	27.8	6.5	93.4	1.8	3.0										
	Bottom	3.4	1	25.6	8.0	27.8	6.5	93.3	1.8	2.8										
									2	25.6	8.0	27.8	6.5	93.3	1.8	2.8	6.5			
			2	25.6	8.0	27.8	6.5	93.3	1.8	2.8										
	Surface	1.0	1	27.2	8.1	25.6	9.2	133.9	3.4	2.2										
			2	27.0	8.1	25.8	9.3	135.1	3.4	2.4										
								1	26.9	8.1	25.9	8.5	123.7	6.5	2.8	9.3	5.0	2.6		
		2	26.9	8.1	25.9	8.5	123.7	6.5	3.0											
Middle	3.2	1	26.9	8.1	25.9	8.5	123.7	6.5	2.8											
Bottom	2.9	1	26.9	8.1	25.9	8.5	123.7	6.5	3.0											
								2	26.9	8.1	25.9	8.5	123.7	6.6	3.0	8.5				
		2	26.9	8.1	25.9	8.5	123.7	6.6	3.0											
Surface	1.0	1	26.6	8.0	25.4	7.1	102.0	2.8	2.2											
		2	26.6	8.0	25.4	7.1	102.0	2.8	2.5											
								1	26.6	8.0	25.4	7.1	101.6	3.7	2.9	7.1	3.7	2.8		
		2	26.6	8.0	25.4	7.1	101.6	3.7	2.7											
Middle	4.5	1	26.6	8.0	25.4	7.1	101.6	3.7	2.9											
Bottom	7.9	1	26.6	8.0	25.4	7.0	101.1	4.7	3.0											
								2	26.6	8.0	25.4	7.0	101.1	4.7	3.2	7.0				
		2	26.6	8.0	25.4	7.0	101.1	4.7	3.2											
Surface	1.0	1	26.3	7.9	25.2	7.2	102.6	1.7	2.1											
		2	26.3	7.9	25.2	7.1	100.6	1.7	2.4											
								1	25.0	7.9	28.8	6.0	85.9	2.9	2.6	6.6	2.4	2.8		
		2	25.0	7.9	28.8	6.0	85.8	2.9	2.8											
Middle	6.7	1	25.0	7.9	28.8	6.0	85.9	2.9	2.6											
Bottom	12.4	1	25.0	7.9	28.6	6.0	84.9	2.5	3.3											
								2	25.0	7.9	28.6	6.0	84.9	2.5	3.7	6.0				
		2	25.0	7.9	28.6	6.0	84.9	2.5	3.7											
Surface	1.0	1	26.4	7.9	25.3	7.5	106.8	1.6	2.6											
		2	26.3	7.9	25.5	7.4	106.4	1.6	2.9											
								1	26.1	7.9	26.4	6.9	98.5	2.9	3.5	7.2	2.7	3.4		
		2	26.1	7.9	26.3	6.9	98.5	2.9	3.3											
Middle	4.7	1	26.1	7.9	26.4	6.9	98.5	2.9	3.5											
Bottom	8.4	1	25.8	7.9	27.0	6.8	97.6	3.6	3.9											
								2	25.8	7.9	27.0	6.8	97.6	3.6	4.3	6.8				
		2	25.8	7.9	27.0	6.8	97.6	3.6	4.3											
Surface	1.0	1	26.6	8.0	25.0	7.3	103.9	1.4	2.8											
		2	26.6	8.0	25.0	7.3	103.9	1.4	2.5											
								1	26.0	8.0	25.5	7.1	101.4	1.7	2.1	7.2	1.9	2.2		
		2	25.9	8.0	25.5	7.1	101.1	1.9	2.3											
Middle	3.8	1	26.0	8.0	25.5	7.1	101.4	1.7	2.1											
Bottom	6.6	1	25.5	8.0	27.9	6.4	91.1	2.4	1.6											
								2	25.5	8.0	27.9	6.4	91.2	2.4	1.8	6.4				
		2	25.5	8.0	27.9	6.4	91.2	2.4	1.8											
Surface	1.0	1	26.6	7.9	25.0	7.3	104.5	1.2	2.9											
		2	26.6	7.9	25.0	7.3	104.1	1.2	2.5											
								1	25.1	7.9	28.9	6.1	87.4	3.7	2.1	6.7	2.3	2.2		
		2	25.1	7.9	28.9	6.1	87.5	3.7	2.3											
Middle	4.9	1	25.1	7.9	28.9	6.1	87.4	3.7	2.1											
Bottom	8.7	1	25.0	7.9	29.1	6.1	87.6	2.1	1.5											
								2	25.0	7.9	29.1	6.1	87.7	2.1	1.8	6.1				
		2	25.0	7.9	29.1	6.1	87.7	2.1	1.8											
Surface	1.0	1	26.7	8.0	24.9	7.5	106.9	2.9	2.2											
		2	26.7	8.0	24.9	7.4	106.8	2.9	2.6											
								1	26.4	8.0	25.4	7.4	105.3	4.2	3.0	7.4	3.6	2.8		
		2	26.4	8.0	25.4	7.4	105.3	4.2	3.4											
Middle	4.2	1	26.4	8.0	25.4	7.4	105.3	4.2	3.0											
Bottom	4.2	1	26.4	8.0	25.4	7.4	105.3	4.2	3.4											
								2	26.4	8.0	25.4	7.4	105.3	4.3	3.4	7.4				
		2	26.4	8.0	25.4	7.4	105.3	4.3	3.4											
Surface	1.0	1	26.0	7.9	26.5	6.8	97.1	1.2	2.1											
		2	25.9	7.9	26.6	6.8	96.7	1.2	2.4											
								1	25.6	7.9	27.6	6.6	94.9	1.4	2.6	6.8	1.3	2.5		
		2	25.6	7.9	27.6	6.6	94.9	1.4	2.6											
Middle	3.8	1	25.6	7.9	27.6	6.6	94.9	1.4	2.6											
Bottom	3.8	1	25.6	7.9	27.6	6.6	94.9	1.4	2.6											
								2	25.6	7.9	27.5	6.6	94.8	1.4	3.0	6.6				
		2	25.6	7.9	27.5	6.6	94.8	1.4	3.0											

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
2023-05-24	Mid-Ebb	TCE-C1	Misty	Calm	14:19	8.2	Surface	1.0	1	25.5	8.1	29.3	6.1	87.8	1.5	3.2	6.1	2.5	2.9
									2	25.5	8.1	29.3	6.1	87.5	1.5	3.5			
							Middle	4.1	1	25.6	8.1	29.4	6.1	87.8	2.4	3.0			
							Bottom	7.2	1	25.6	8.1	29.4	6.1	88.2	2.5	2.7			
				2	25.7	8.1	29.3	6.1	89.1	3.7	2.5								
				2	25.7	8.1	29.3	6.1	89.4	3.7	2.3								
		TCE-C2	Misty	Calm	15:41	13.2	Surface	1.0	1	25.9	8.1	27.9	7.5	108.6	1.0	3.0	7.2	1.3	2.5
									2	25.8	8.1	28.1	7.5	107.3	1.1	3.4			
							Middle	6.6	1	25.8	8.1	28.6	6.9	99.3	1.2	2.8			
							Bottom	12.2	1	25.8	8.1	28.7	6.9	99.0	1.3	2.3			
				2	25.9	8.1	28.9	6.8	99.0	1.5	1.9								
				2	25.9	8.1	28.8	6.9	99.2	1.5	1.6								
	TCE-WQM1	Misty	Calm	14:47	7.8	Surface	1.0	1	26.2	8.1	25.1	6.8	97.0	2.8	3.0	6.5	3.5	3.6	
								2	26.2	8.1	25.1	6.7	95.5	2.9	2.6				
						Middle	3.9	1	26.2	8.1	27.5	6.2	89.7	3.1	3.5				
						Bottom	6.8	1	26.3	8.1	27.7	6.2	89.4	3.2	3.9				
			2	26.5	8.1	27.9	6.2	90.2	4.6	4.2									
			2	26.6	8.1	27.8	6.3	92.1	4.7	4.5									
	TCE-WQM2a	Misty	Calm	15:09	7.2	Surface	1.0	1	26.2	8.1	25.6	7.1	100.8	1.0	4.0	6.7	1.2	3.1	
								2	26.2	8.1	25.6	7.1	100.8	1.0	4.3				
						Middle	3.6	1	26.1	8.1	26.2	6.4	91.8	1.1	3.2				
						Bottom	6.2	1	26.0	8.1	26.3	6.4	91.4	1.1	2.8				
			2	26.1	8.1	28.4	6.4	92.9	1.6	2.0									
			2	26.1	8.1	28.3	6.5	94.1	1.5	2.5									
TCE-WQM2b	Misty	Calm	15:21	7.8	Surface	1.0	1	26.7	8.1	25.8	7.7	110.6	1.5	1.9	7.4	2.1	1.6		
							2	26.6	8.1	25.9	7.7	110.4	1.6	1.9					
					Middle	3.9	1	26.3	8.1	26.4	7.0	101.3	2.1	1.7					
					Bottom	6.8	1	26.2	8.1	26.6	7.1	101.9	2.0	1.5					
		2	26.2	8.1	26.9	7.1	102.0	2.8	1.2										
		2	26.2	8.1	26.8	7.1	102.1	2.7	1.4										
TCE-WQM3A	Misty	Calm	15:03	3.6	Surface	1.0	1	26.9	8.1	24.5	7.3	105.4	1.1	3.5	7.3	1.8	4.0		
							2	26.9	8.1	24.5	7.3	105.2	1.2	3.1					
					Bottom	2.6	1	26.9	8.1	24.5	7.3	105.1	2.4	4.9					
							2	26.9	8.1	24.5	7.3	105.0	2.4	4.5					
TCE-WQM4	Misty	Calm	14:57	4.4	Surface	1.0	1	26.8	8.1	24.7	7.3	104.4	1.0	4.0	7.3	2.2	3.8		
							2	26.8	8.1	24.8	7.3	104.2	1.1	4.3					
					Bottom	3.4	1	26.6	8.1	25.8	6.8	98.4	3.4	3.3					
							2	26.6	8.1	25.7	6.8	98.5	3.5	3.7					
2023-05-24	Mid-Flood	TCE-C1	Misty	Calm	9:21	8.2	Surface	1.0	1	25.6	8.1	29.1	6.3	92.1	2.6	1.4	6.4	3.3	1.6
									2	25.6	8.1	29.2	6.4	92.0	2.6	1.3			
							Middle	4.1	1	25.9	8.1	29.1	6.4	92.0	3.2	1.5			
							Bottom	7.2	1	26.0	8.1	29.0	6.3	92.1	3.2	1.7			
				2	26.2	8.1	29.0	6.2	90.4	4.1	1.8								
				2	26.4	8.1	28.8	6.2	90.3	4.2	1.7								
		TCE-C2	Misty	Calm	8:04	14.0	Surface	1.0	1	25.6	7.9	28.9	6.5	94.0	1.0	2.8	6.3	1.5	2.3
									2	25.5	7.9	29.1	6.5	93.4	1.1	3.0			
							Middle	7.0	1	25.3	7.9	30.0	6.0	86.6	1.3	2.2			
							Bottom	13.0	1	25.2	7.9	30.1	6.0	86.5	1.4	2.5			
				2	25.3	7.9	29.9	6.0	87.1	2.1	1.6								
				2	25.4	7.9	29.7	6.1	87.4	2.2	1.9								
	TCE-WQM1	Misty	Calm	9:02	8.0	Surface	1.0	1	26.3	8.1	25.9	6.7	96.6	1.6	1.8	6.6	2.0	2.3	
								2	26.2	8.1	26.0	6.6	94.0	1.6	1.5				
						Middle	4.0	1	26.1	8.1	26.3	6.5	93.2	1.9	2.2				
						Bottom	7.0	1	26.0	8.1	26.6	6.5	93.0	2.0	2.5				
			2	25.9	8.1	27.1	6.6	93.9	2.3	2.7									
			2	25.9	8.1	27.1	6.6	95.0	2.3	3.0									
	TCE-WQM2a	Misty	Calm	8:35	7.6	Surface	1.0	1	25.9	8.0	25.8	6.4	91.0	1.0	3.3	6.3	2.1	2.3	
								2	25.9	8.0	25.8	6.4	91.0	1.0	2.9				
						Middle	3.8	1	25.7	8.1	28.6	6.1	88.3	2.1	2.1				
						Bottom	6.6	1	25.7	8.1	28.6	6.2	88.6	2.2	2.4				
			2	25.7	8.1	28.6	6.3	90.2	3.0	1.8									
			2	25.7	8.1	28.5	6.3	91.3	3.1	1.4									
TCE-WQM2b	Misty	Calm	8:30	10.2	Surface	1.0	1	26.0	8.1	26.0	6.9	98.0	1.4	2.7	6.6	2.1	2.2		
							2	26.0	8.1	26.0	6.8	96.5	1.5	2.5					
					Middle	5.1	1	26.0	8.1	28.4	6.4	92.2	1.9	2.1					
					Bottom	9.2	1	26.1	8.1	28.4	6.4	92.6	1.8	2.4					
		2	26.2	8.1	28.4	6.5	94.2	2.9	1.6										
		2	26.3	8.1	28.2	6.6	95.5	2.9	1.8										
TCE-WQM3A	Misty	Calm	8:44	4.8	Surface	1.0	1	26.6	8.1	24.3	7.1	101.6	1.1	2.2	7.1	1.1	3.2		
							2	26.6	8.1	24.3	7.1	101.8	1.0	2.4					
					Bottom	3.8	1	26.7	8.1	23.5	7.1	101.9	1.2	4.2					
							2	26.7	8.1	24.1	7.1	101.3	1.2	3.9					
TCE-WQM4	Misty	Calm	8:53	4.4	Surface	1.0	1	26.6	8.1	24.6	7.0	100.2	4.2	1.5	7.0	4.6	1.6		
							2	26.6	8.1	24.6	7.0	100.3	4.1	1.7					
					Bottom	3.4	1	26.6	8.1	24.6	7.0	100.7	5.0	1.6					
							2	26.6	8.1	24.4	7.1	100.9	5.0	1.7					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2023-05-29	Mid-Ebb	TCE-C1	Sunny	Moderate	10:04	7.3	Surface	1.0	2	20.2	8.3	23.9	9.1	116.7	2.1	2.6	8.5	3.4	2.1	
								3.7	1	20.2	8.3	24.1	8.3	105.8	3.3	2.1				
							Middle	3.7	2	20.2	8.3	24.1	8.3	105.8	3.4	2.5				
							Bottom	6.3	1	20.2	8.3	24.1	8.2	104.8	4.9	1.3				
									1.0	1	20.2	8.3	23.9	9.1	116.7	2.0	2.9	8.7		
			6.3	2	20.2	8.3	24.1	8.2	104.7	4.9	1.4									
		Surface	1.0	2	19.8	8.2	25.1	8.5	107.9	5.1	2.7									
		Bottom	6.4	1	19.8	8.2	25.2	8.4	106.9	6.1	2.4									
									6.4	2	19.8	8.2	25.2	8.4	106.8	6.2	2.1	8.4	6.4	2.2
			11.7	1	19.8	8.2	25.2	8.3	106.1	8.1	1.6									
		Middle	6.4	2	19.8	8.2	25.1	8.5	107.9	5.0	2.4									
		Bottom	1.0	1	19.8	8.2	25.2	8.3	106.1	8.2	1.9									
									11.7	2	19.8	8.2	25.2	8.3	106.1	8.2	1.9	8.4		
			1.0	2	20.4	8.3	23.1	8.8	112.5	2.4	3.7									
		Surface	1.0	2	20.4	8.3	23.1	8.8	112.5	2.4	3.7									
		Bottom	4.1	1	20.0	8.2	24.4	8.2	104.4	6.4	3.0									
									4.1	2	20.0	8.2	24.4	8.2	104.4	6.4	3.3	8.3	5.6	3.1
			7.1	1	19.8	8.2	25.3	8.0	101.8	8.1	2.4									
		Middle	4.1	2	20.0	8.2	24.4	8.2	104.4	6.4	3.3									
		Bottom	1.0	1	20.4	8.3	23.1	8.8	112.5	2.4	3.5									
									7.1	2	19.8	8.2	25.4	8.0	101.7	8.1	2.8	8.4		
			1.0	2	19.7	8.3	25.5	8.5	108.9	2.0	3.8									
		Surface	1.0	2	19.7	8.3	25.5	8.5	108.9	2.0	3.8									
		Bottom	3.2	1	19.6	8.2	25.7	8.1	102.7	3.5	2.7									
								3.2	2	19.6	8.2	25.7	8.1	102.7	3.6	3.0	8.1	3.6	2.9	
		5.4	1	19.6	8.2	25.9	7.9	100.4	5.3	2.3										
	Middle	3.2	2	19.6	8.2	25.7	8.1	102.7	3.6	3.0										
	Bottom	1.0	1	19.7	8.3	25.5	8.5	108.9	2.0	3.4										
								5.4	2	19.6	8.2	25.9	7.9	100.3	5.4	2.1	8.2			
		1.0	2	19.6	8.2	25.0	8.6	108.8	3.2	2.8										
	Surface	1.0	2	19.6	8.2	25.0	8.6	108.8	3.2	2.8										
	Bottom	4.9	1	19.1	8.2	27.1	8.1	102.8	4.1	2.6										
								4.9	2	19.1	8.2	27.1	8.1	102.8	4.1	2.4	8.1	4.5	2.6	
		8.7	1	19.1	8.3	27.6	7.8	100.3	6.2	2.4										
	Middle	4.9	2	19.1	8.2	27.1	8.1	102.8	4.1	2.4										
	Bottom	1.0	1	19.6	8.3	25.0	8.6	108.7	3.1	3.2										
								8.7	2	19.1	8.3	27.6	7.8	99.9	6.3	2.2	8.2			
		1.0	1	19.7	8.2	25.5	8.8	112.6	8.4	1.9										
	Surface	1.0	1	19.7	8.2	25.5	8.8	112.6	8.4	1.9										
	Bottom	3.1	1	19.6	8.2	26.0	7.9	100.9	9.5	2.6										
								3.1	1	19.6	8.2	26.0	7.9	100.9	9.5	2.6	7.9	9.0	2.2	
		1.0	2	19.6	8.2	26.0	7.9	100.9	9.6	2.7										
	Surface	1.0	2	19.6	8.2	26.0	7.9	100.9	9.6	2.7										
	Bottom	1.0	1	19.9	8.2	24.8	9.3	118.4	3.0	1.9										
								1.0	1	19.9	8.2	24.8	9.3	118.4	3.0	1.9	9.3	4.2	2.1	
		1.0	2	19.9	8.2	24.7	9.3	118.4	3.0	1.6										
	Surface	1.0	2	19.9	8.2	24.7	9.3	118.4	3.0	1.6										
	Bottom	2.8	1	19.8	8.2	25.2	7.9	101.2	5.4	2.2										
							2.8	1	19.8	8.2	25.2	7.9	101.2	5.4	2.2	7.9				
	1.0	2	19.8	8.2	25.2	7.9	101.2	5.5	2.6											
Surface	1.0	2	19.8	8.2	25.2	7.9	101.2	5.5	2.6											
Bottom	1.0	1	28.9	8.4	23.8	9.8	145.8	4.1	3.2											
							1.0	1	28.9	8.4	23.8	9.8	145.8	4.1	3.2	9.2	5.1	3.7		
	4.0	1	28.4	8.4	24.9	8.5	126.6	5.3	3.5											
Surface	1.0	1	28.9	8.4	23.8	9.8	145.8	4.1	3.2											
Bottom	6.9	1	28.2	8.3	25.5	7.9	117.4	6.1	4.2											
							4.0	2	28.5	8.3	24.8	8.5	126.6	5.3	3.9	7.9				
	1.0	2	28.2	8.3	25.5	7.9	117.4	6.1	4.5											
Surface	1.0	2	28.2	8.3	25.5	7.9	117.4	6.1	4.5											
Bottom	1.0	1	29.1	8.6	25.2	11.1	167.8	2.7	4.2											
							1.0	1	29.1	8.6	25.2	11.1	167.8	2.7	3.9	10.5	3.7	3.6		
	6.8	1	28.4	8.4	25.5	9.9	147.1	3.9	3.8											
Surface	1.0	2	29.1	8.6	25.2	11.1	167.8	2.7	4.2											
Bottom	12.6	1	28.3	8.3	25.6	9.0	134.2	4.4	3.0											
							6.8	2	28.4	8.4	25.5	9.9	147.0	3.9	3.5	9.0				
	1.0	2	28.3	8.3	25.6	9.0	134.2	4.4	3.2											
Surface	1.0	2	28.3	8.3	25.6	9.0	134.2	4.4	3.2											
Bottom	1.0	1	29.0	8.5	23.3	10.7	158.9	2.1	3.3											
							1.0	1	29.0	8.5	23.3	10.7	158.9	2.1	3.0	10.3	4.9	3.8		
	4.4	1	28.7	8.5	24.0	10.0	148.0	5.4	4.0											
Surface	1.0	2	29.0	8.5	23.3	10.7	158.9	2.1	3.0											
Bottom	7.8	1	28.7	8.3	24.5	8.6	128.4	7.1	4.2											
							4.4	2	28.7	8.5	24.0	10.0	148.0	5.4	3.6	8.6				
	1.0	2	28.7	8.3	24.5	8.6	128.8	7.1	4.4											
Surface	1.0	2	28.7	8.3	24.5	8.6	128.8	7.1	4.4											
Bottom	1.0	1	29.1	8.6	25.4	10.9	164.8	2.1	2.1											
							1.0	1	29.1	8.6	25.4	10.9	164.8	2.1	2.2	10.5	4.2	2.4		
	3.4	1	28.1	8.5	25.9	10.1	149.1	3.9	2.1											
Surface	1.0	1	29.1	8.6	25.4	10.9	164.8	2.1	2.1											
Bottom	5.8	1	28.0	8.5	26.1	9.7	144.7	6.4	2.6											
							3.4	2	28.1	8.5	25.9	10.0	149.1	4.0	2.4	9.7				
	1.0	2	28.0	8.5	26.1	9.8	144.8	6.4	2.9											
Surface	1.0	2	28.0	8.5	26.1	9.8	144.8	6.4	2.9											
Bottom	1.0	1	29.0	8.7	25.4	11.2	169.0	4.1	2.8											
							1.0	1	29.0	8.7	25.4	11.2	169.0	4.1	2.6	10.6	5.6	2.4		
	5.4	1	28.1	8.5	25.9	10.0	147.9	5.3	2.4											
Surface	1.0	1	29.0	8.7	25.4	11.2	169.0	4.1	2.8											
Bottom	9.7	1	27.9	8.3	26.1	8.9	132.0	7.5	2.0											
							5.4	2	28.1	8.5	25.9	10.0	147.9	5.4	2.5	8.9				
	1.0	2	27.9	8.3	26.1	8.9	132.0	7.5	2.3											
Surface	1.0	2	27.9	8.3	26.1	8.9	132.0	7.5	2.3											
Bottom	1.0	1	28.7	8.7	23.9	11.2	165.9	1.2	1.8											
							1.0	1	28.7	8.7	23.9	11.2	165.9	1.2	1.8	11.2	2.4	2.0		
	3.9	1	28.7	8.5	26.2	9.9	148.6	3.7	2.4											
Surface	1.0	1	28.7	8.7	23.9	11.2	165.9	1.2	1.8											
Bottom	3.9	1	28.7	8.5	26.2	9.9	148.6	3.7	2.4											
							3.9	2	28.7	8.5	26.2	9.9	148.6	3.7	2.1	9.9				
	1.0	1	29.0	8.6	23.3	10.9	162.1	1.2	1.8											
Surface	1.0	1	29.0	8.6	23.3	10.9	162.1	1.2	1.8											
Bottom	3.5	1	28.7	8.5	23.9	9.7	144.2	3.9	2.2											
							1.0	2	28.7	8.5	23.9	9.7	144.2	3.9	2.6	9.7	2.5	2.1		
	1.0	2	29.0	8.6	23.3	10.9	162.4	1.2	1.9											
Surface	1.0	2	29.0	8.6	23.3	10.9	162.4	1.2	1.9											
Bottom	3.5	1	28.7	8.5	23.9	9.7	144.2	3.9	2.2											

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2023-05-31	Mid-Ebb	TCE-C1	Misty	Calm	12:25	9.6	Surface	1.0	1	29.2	8.2	19.7	7.8	113.9	1.1	2.4	6.4	2.3	1.8	
									2	29.2	8.2	19.7	7.8	114.0	1.0	2.1				
							Middle	4.8	1	26.4	8.2	29.2	5.0	73.1	2.4	1.9				
							Bottom	8.6	1	26.4	8.2	29.2	5.0	73.2	2.4	1.7				
				2	26.4	8.2	29.3	5.4	79.2	3.5	1.2									
				2	26.4	8.2	29.3	5.5	79.8	3.6	1.2									
		TCE-C2	Misty	Calm	10:47	13.8	Surface	1.0	1	29.0	8.6	20.1	8.0	116.4	1.4	2.6	6.9	3.2	1.9	
									2	28.9	8.6	20.1	7.9	115.0	1.5	2.4				
							Middle	6.9	1	26.3	8.6	27.9	5.8	83.9	3.3	1.8				
							Bottom	12.8	1	26.3	8.6	27.9	5.8	83.8	3.4	1.7				
				2	26.1	8.6	29.6	5.6	81.6	4.9	1.3									
				2	26.1	8.6	29.6	5.6	81.7	4.8	1.5									
		TCE-WQM1	Misty	Calm	12:02	7.8	Surface	1.0	1	30.2	8.3	18.5	8.7	127.2	2.1	2.2	7.0	3.1	1.9	
									2	30.2	8.3	18.5	8.7	127.2	2.1	2.4				
							Middle	3.9	1	27.2	8.1	26.5	5.4	78.7	3.4	1.8				
							Bottom	6.8	1	27.2	8.1	26.5	5.4	78.4	3.3	1.9				
				2	27.1	8.1	26.7	5.9	85.3	3.9	1.5									
				2	27.1	8.1	26.7	6.0	87.5	3.7	1.4									
		TCE-WQM2a	Misty	Calm	11:31	6.8	Surface	1.0	1	29.0	8.2	21.7	7.8	115.1	1.3	1.9	7.5	2.2	1.6	
									2	29.0	8.2	21.7	7.8	115.1	1.3	1.7				
							Middle	3.4	1	27.7	8.2	24.0	7.2	103.9	2.1	1.4				
							Bottom	5.8	1	27.6	8.2	24.1	7.1	103.5	2.1	1.6				
				2	27.3	8.2	26.3	6.7	97.7	3.1	1.4									
				2	27.3	8.2	26.8	6.7	98.1	3.1	1.3									
	TCE-WQM2b	Misty	Calm	11:19	11.6	Surface	1.0	1	30.2	8.4	16.7	8.4	122.9	1.1	1.9	7.7	2.1	1.5		
								2	30.2	8.4	16.8	8.4	122.7	1.1	1.6					
						Middle	5.8	1	27.7	8.2	22.3	6.9	99.8	2.1	1.4					
						Bottom	10.6	1	27.6	8.2	22.4	6.9	99.1	2.1	1.6					
			2	27.5	8.2	24.9	6.2	90.7	3.1	1.4										
			2	27.5	8.2	24.9	6.3	91.9	3.1	1.3										
	TCE-WQM3A	Misty	Calm	11:41	4.4	Surface	1.0	1	29.6	8.2	20.2	7.7	115.0	2.0	1.7	7.7	2.8	1.9		
								2	29.6	8.2	20.2	7.7	114.6	2.1	1.4					
						Bottom	3.4	1	27.4	8.0	25.9	5.9	87.3	3.5	2.4					
			2	27.4	8.0	25.9	5.9	87.8	3.6	2.2										
	TCE-WQM4	Misty	Calm	11:51	4.2	Surface	1.0	1	29.9	8.3	18.9	9.2	134.2	1.1	2.4	9.1	2.2	2.4		
								2	29.9	8.3	18.8	9.0	134.0	1.1	2.7					
						Bottom	3.2	1	27.7	8.1	24.6	6.4	94.7	3.2	2.2					
								2	27.8	8.1	24.3	6.5	96.1	3.4	2.1					
	2023-05-31	Mid-Flood	TCE-C1	Misty	Calm	15:05	9.2	Surface	1.0	1	28.9	8.2	20.5	7.2	105.2	1.1	1.2	6.1	1.5	1.4
										2	28.9	8.2	20.5	7.2	105.0	1.1	1.1			
								Middle	4.6	1	26.3	8.0	29.4	5.1	73.9	1.2	1.4			
								Bottom	8.2	1	26.3	8.0	29.4	5.1	74.0	1.1	1.3			
					2	26.3	8.0	29.4	5.6	81.2	2.5	1.7								
					2	26.3	8.0	29.4	5.6	81.9	2.3	1.5								
			TCE-C2	Misty	Calm	16:49	13.2	Surface	1.0	1	29.2	8.4	20.0	8.5	125.1	1.1	1.2	7.6	1.3	1.8
										2	29.3	8.4	20.0	8.5	125.2	1.1	1.2			
								Middle	6.6	1	27.2	8.3	24.6	6.8	98.9	1.2	1.9			
								Bottom	12.2	1	27.2	8.3	24.6	6.7	97.4	1.2	1.7			
				2	26.8	8.2	27.2	6.5	94.2	1.8	2.5									
				2	26.8	8.2	27.1	6.5	95.0	1.7	2.2									
TCE-WQM1			Misty	Calm	15:43	7.6	Surface	1.0	1	30.3	8.5	18.6	8.5	126.9	1.1	1.6	6.9	2.4	2.2	
									2	30.3	8.5	18.6	8.5	126.6	1.1	1.8				
							Middle	3.8	1	27.5	8.3	24.4	6.5	94.7	3.0	2.2				
							Bottom	6.6	1	27.4	8.2	24.5	6.3	91.8	3.0	2.3				
				2	27.1	8.2	26.9	5.4	79.0	3.2	2.5									
				2	27.1	8.2	26.9	5.5	79.6	3.1	2.7									
TCE-WQM2a			Misty	Calm	16:12	7.2	Surface	1.0	1	29.8	8.2	20.3	8.4	125.7	1.1	1.4	7.7	1.7	1.6	
									2	29.8	8.2	20.3	8.4	125.7	1.1	1.4				
							Middle	3.6	1	28.0	8.1	23.8	7.0	101.6	1.6	1.5				
							Bottom	6.2	1	28.0	8.1	23.9	7.0	101.4	1.5	1.6				
				2	27.8	8.1	24.2	6.8	100.3	2.3	1.8									
				2	27.9	8.1	25.4	6.9	101.9	2.3	1.9									
TCE-WQM2b		Misty	Calm	16:26	7.2	Surface	1.0	1	29.1	8.3	21.3	7.6	110.8	3.0	1.9	7.2	5.0	2.2		
								2	29.2	8.3	21.3	7.6	111.9	3.1	1.6					
						Middle	3.6	1	27.5	8.2	23.2	6.8	97.7	5.3	2.3					
						Bottom	6.2	1	27.4	8.2	23.3	6.7	96.8	5.3	2.1					
			2	26.6	8.2	27.9	6.3	92.2	6.6	2.8										
			2	26.6	8.2	27.9	6.4	93.6	6.6	2.5										
TCE-WQM3A		Misty	Calm	16:03	4.6	Surface	1.0	1	30.0	8.2	20.1	8.0	119.4	1.1	1.6	8.0	1.4	1.9		
								2	29.9	8.2	20.1	8.1	119.1	1.1	1.3					
						Bottom	3.6	1	27.8	8.0	25.6	6.2	91.6	1.7	2.1					
			2	28.0	8.0	25.5	6.5	95.1	1.6	2.4										
TCE-WQM4		Misty	Calm	15:53	3.6	Surface	1.0	1	30.3	8.3	19.0	8.6	128.4	1.2	1.6	8.6	1.9	1.9		
								2	30.3	8.3	19.0	8.6	128.1	1.2	1.3					
						Bottom	2.6	1	27.9	8.1	25.6	7.2	106.2	2.5	2.1					
								2	28.0	8.1	25.4	7.2	106.5	2.6	2.4					

Annex G4

Event and Action Plan for Water Quality

Annex G4 *Event and Action Plan for Water Quality*

Event	ET	IEC	Action ER	Contractor
Action level exceedance for one sampling day	<ol style="list-style-type: none"> 1. Inform IEC, Contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss remedial measures with IEC and Contractor and ER. 	<ol style="list-style-type: none"> 1. Discuss with ET, ER and Contractor on the implemented mitigation measures; 2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC, ET and Contractor on the implemented mitigation measures; 2. Make agreement on the remedial measures to be implemented; 3. Supervise the implementation of agreed remedial measures. 	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment; 5. Consider changes of working methods; 6. Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and 7. Implement the agreed mitigation measures.
Action level exceedance for more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment and Contractor's working methods; 4. Discuss remedial measures with IEC, contractor and ER 5. Ensure remedial measures are implemented 	<ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented ; and 3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. 	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed mitigation measures.

Event	Action			
	ET	IEC	ER	Contractor
Limit level exceedance for one sampling day	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Rectify unacceptable practice; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; and 7. Ensure the agreed remedial measures are implemented 	<ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; and 4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. 	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures.
Limit level exceedance for more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Inform IEC, contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss mitigation measures with IEC, ER and Contractor; and 4. Ensure mitigation measures are implemented; and 5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days 	<ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; 4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level. 	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures. 7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level.