

Annex G3

Monitoring Results for Water Quality

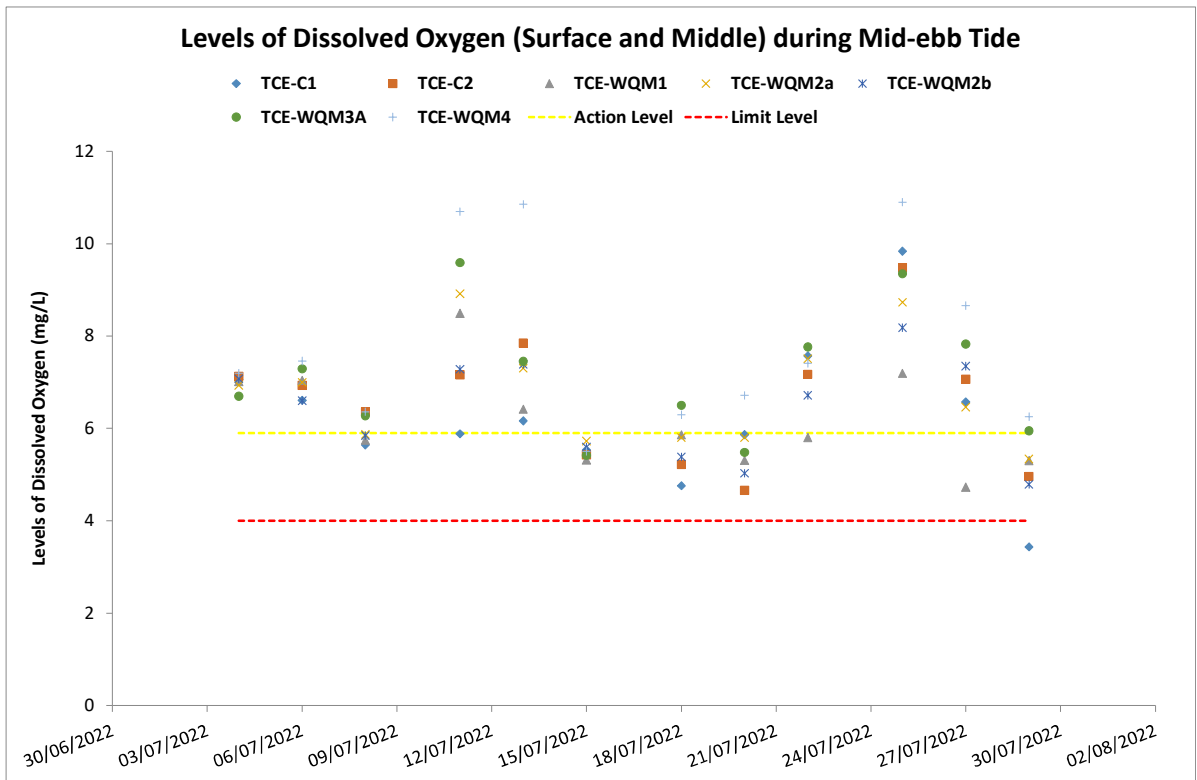


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2022

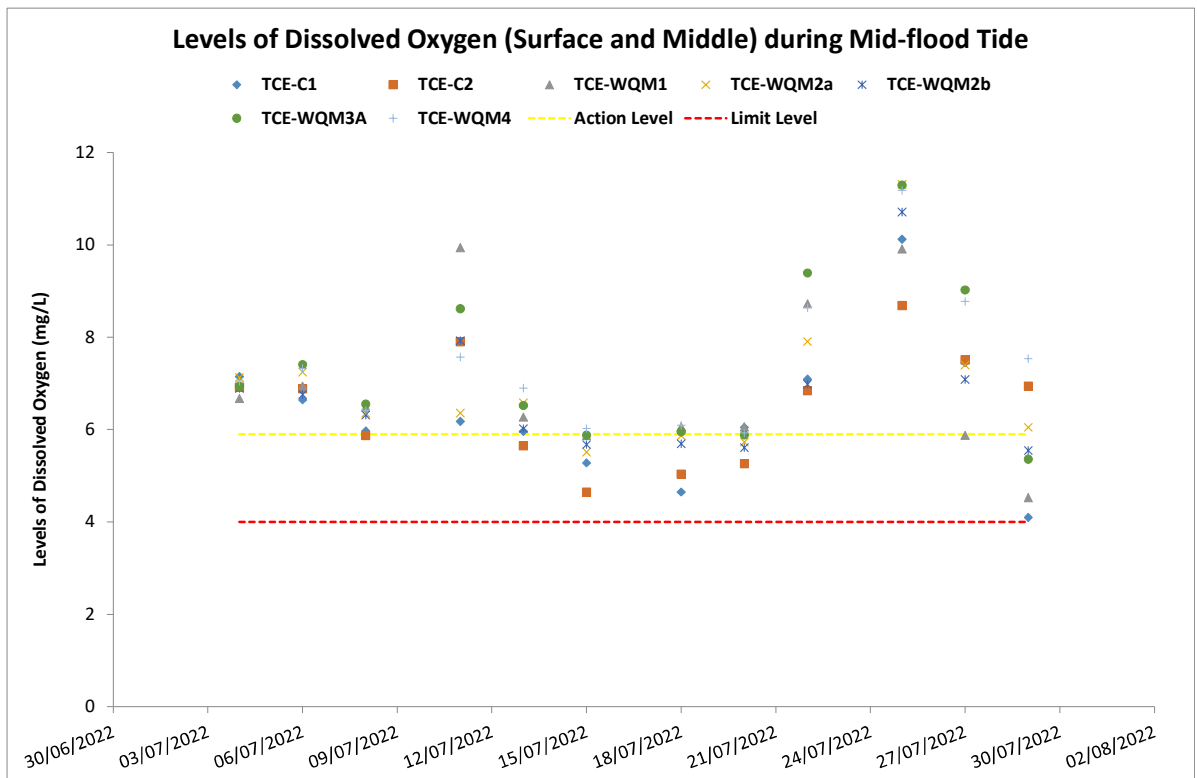


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2022

Source: P:\Projects\0445700 CEDD ET for Tung Chung, JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2022

Environmental Resources Management



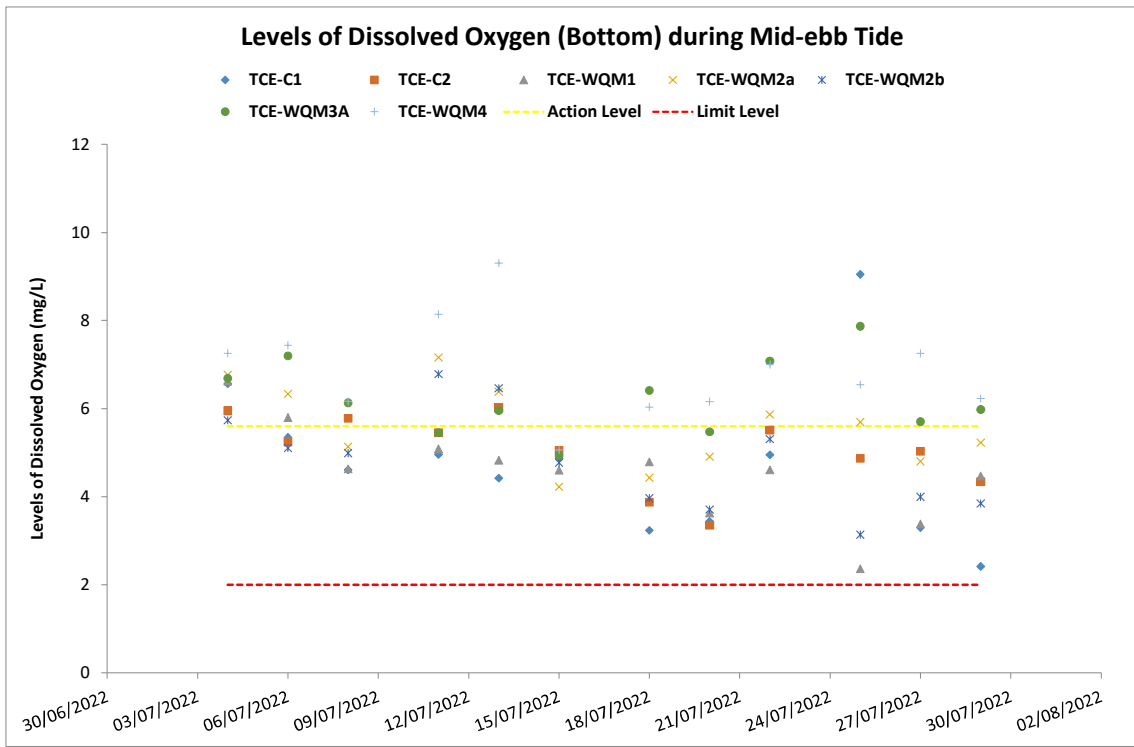


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2022

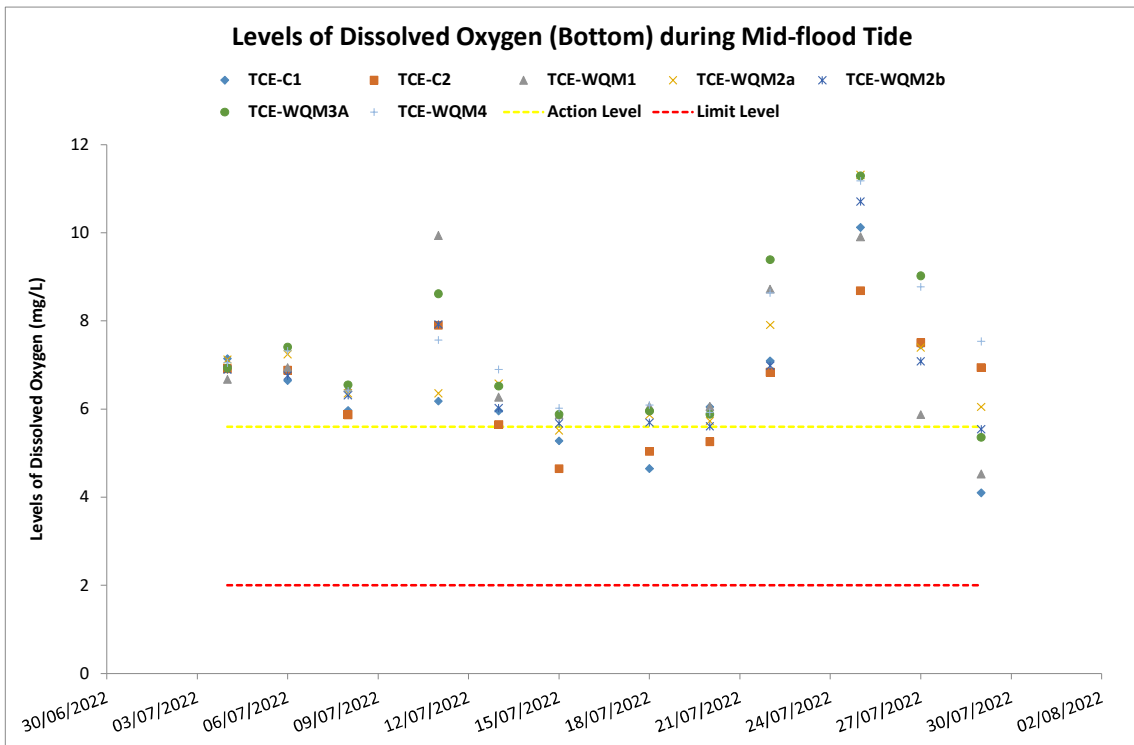


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2022

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2022

**Environmental
Resources
Management**



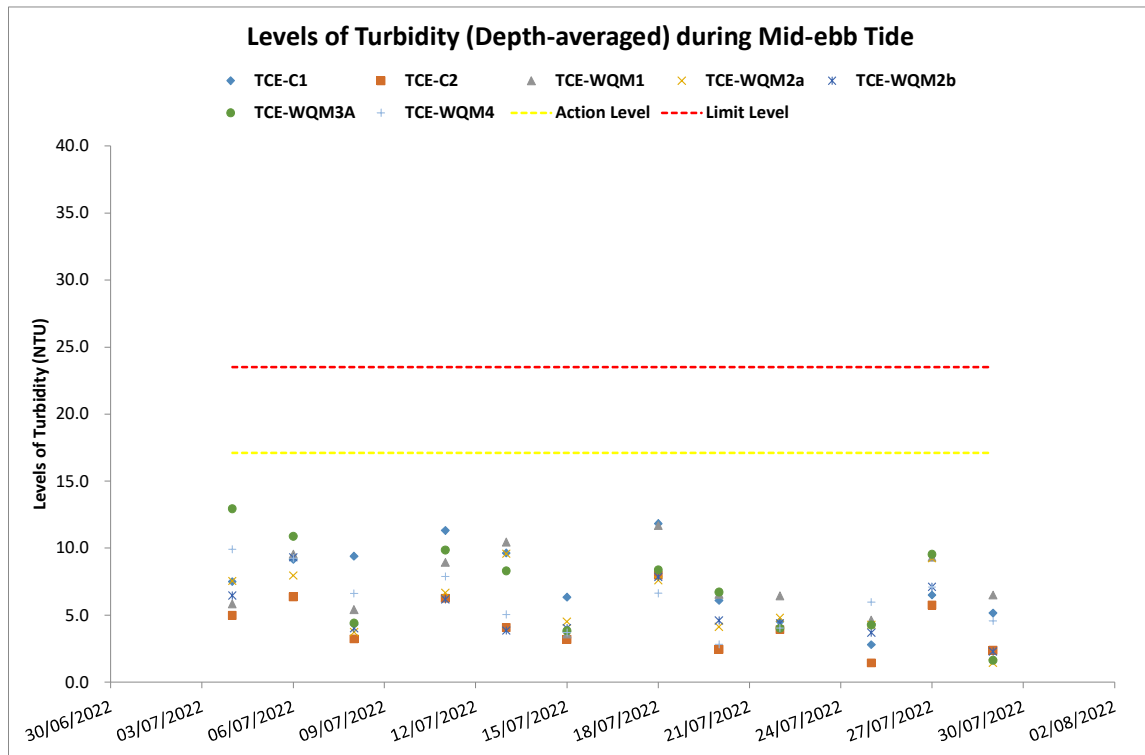


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2022

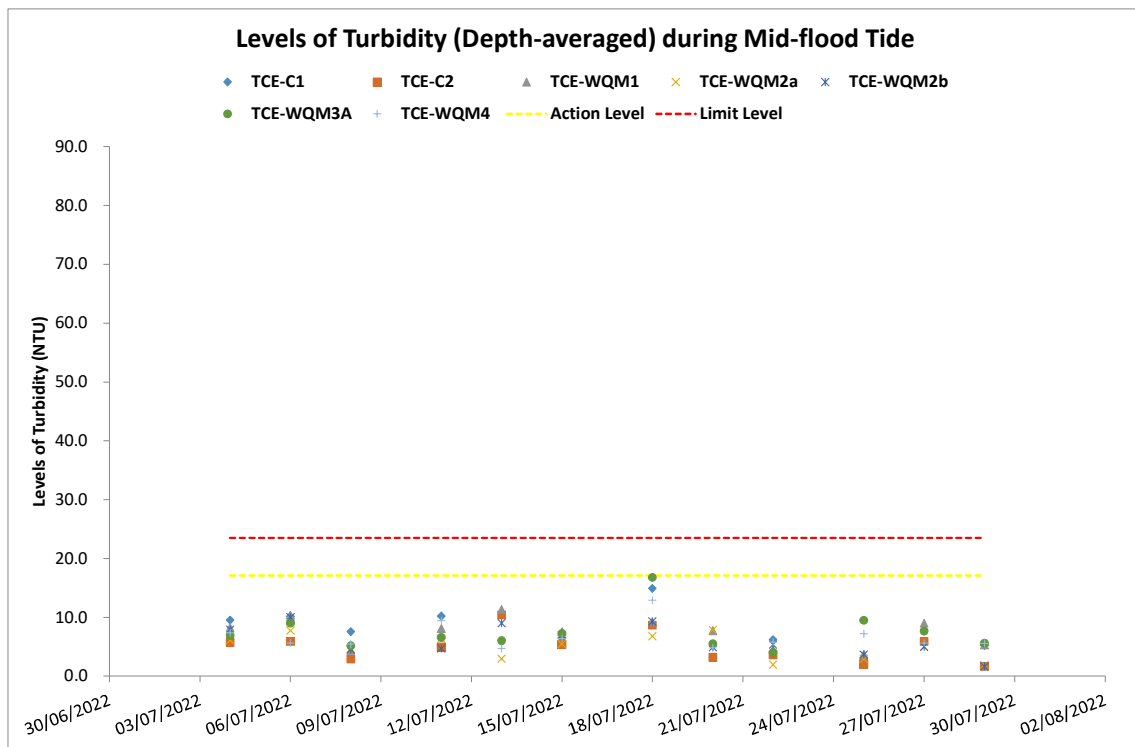


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2022

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2022

**Environmental
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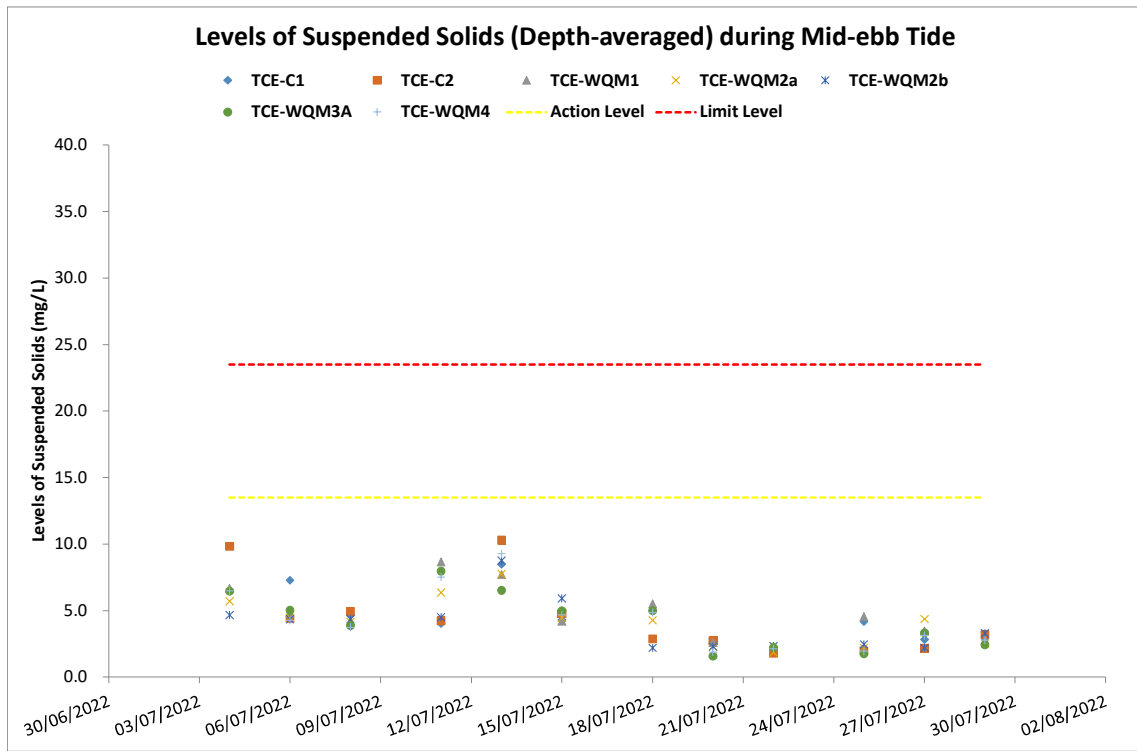


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 July 2022

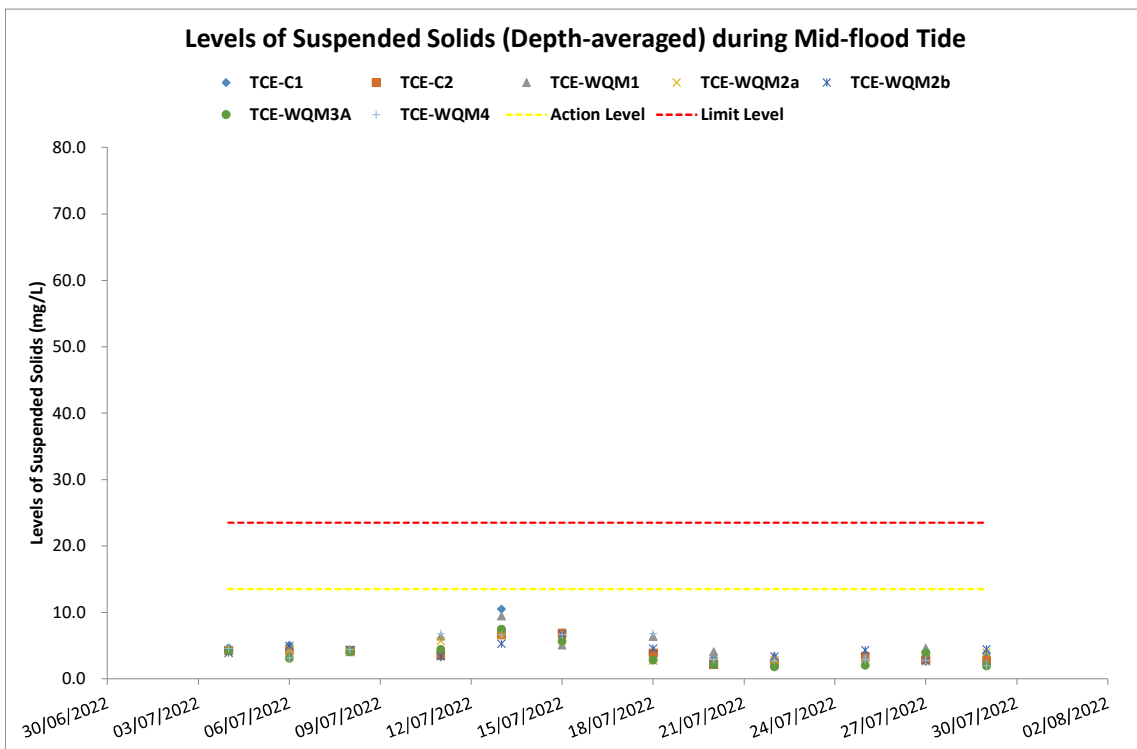


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 July 2022

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2022

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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)
2022-07-04	Mid-Ebb	TCE-C1	Cloudy	Rough	14:41	8.2	Surface	1.0	1	26.3	7.9	14.4	7.4	99.4	6.6	5.1	7.1	7.5	6.5
									2	26.3	7.9	14.4	7.4	99.3	6.6	5.5			
							Middle	4.1	1	26.3	7.9	17.6	6.7	92.3	7.7	6.6			
							Bottom	7.2	1	26.3	7.9	17.7	6.7	91.9	7.7	6.9			
				2	26.3	7.9	20.1	6.6	91.0	8.2	7.5								
				2	26.3	7.9	20.2	6.6	91.1	8.3	7.2								
		TCE-C2	Cloudy	Rough	16:51	13.8	Surface	1.0	1	26.3	7.9	12.4	7.4	98.2	4.7	8.9	7.1	5.0	9.8
				2	26.3	7.9	12.4	7.4	98.2	4.7	8.6								
		Middle	6.9	1	26.2	7.9	13.8	6.9	93.6	5.0	9.6								
		Bottom	12.8	1	26.2	7.9	13.6	6.9	92.9	5.0	10.0								
				2	26.1	7.9	22.5	6.0	83.4	5.2	11.1								
				2	26.1	7.9	22.7	6.0	83.5	5.2	10.8								
	TCE-WQM1	Cloudy	Moderate	15:40	7.9	Surface	1.0	1	26.3	7.9	16.9	7.1	96.1	4.9	7.4	7.0	5.8	6.7	
			2	26.3	7.9	17.0	7.0	95.9	4.9	7.2									
	Middle	4.0	1	26.3	7.9	17.5	7.0	95.5	5.4	6.7									
	Bottom	6.9	1	26.3	7.9	17.4	7.0	95.5	5.4	6.5									
			2	26.3	7.9	19.5	6.6	91.4	7.3	6.3									
			2	26.3	7.9	19.5	6.6	91.9	7.2	6.0									
	TCE-WQM2a	Cloudy	Rough	16:13	7.2	Surface	1.0	1	26.3	7.9	15.0	7.0	94.7	5.9	6.4	6.9	7.6	5.7	
			2	26.3	7.9	15.0	7.0	94.7	5.9	6.0									
	Middle	3.6	1	26.3	7.9	15.8	6.8	92.6	7.4	5.6									
	Bottom	6.2	1	26.3	7.9	15.8	6.8	92.5	7.4	5.8									
			2	26.3	7.9	16.6	6.8	91.9	9.4	5.0									
			2	26.3	7.9	16.5	6.8	92.0	9.4	5.4									
TCE-WQM2b	Cloudy	Rough	16:24	11.4	Surface	1.0	1	26.3	7.9	12.8	7.3	97.1	5.0	5.3	7.1	6.5	4.7		
		2	26.3	7.9	12.8	7.3	97.0	5.0	5.1										
Middle	5.7	1	26.3	7.9	14.4	6.9	92.3	6.6	4.8										
Bottom	10.4	1	26.2	7.9	14.3	6.9	92.0	6.5	4.6										
		2	26.2	7.9	23.8	5.7	80.1	7.8	4.2										
		2	26.2	7.9	23.7	5.8	82.2	7.9	4.0										
TCE-WQM3A	Cloudy	Moderate	16:02	3.5	Surface	1.0	1	26.3	7.9	15.7	6.7	90.7	10.4	5.9	6.7	12.9	6.5		
		2	26.3	7.9	15.7	6.7	90.7	10.3	6.1										
Bottom	2.5	1	26.3	7.9	15.8	6.7	90.6	15.6	6.8										
		2	26.3	7.9	15.9	6.7	90.7	15.5	7.0										
TCE-WQM4	Cloudy	Moderate	15:51	3.7	Surface	1.0	1	26.3	7.9	16.5	7.2	97.9	8.1	5.3	7.2	9.9	6.5		
		2	26.3	7.9	16.5	7.2	97.9	8.2	5.7										
Bottom	2.7	1	26.3	7.9	16.4	7.3	98.6	11.7	7.6										
		2	26.3	7.9	16.4	7.3	98.7	11.8	7.3										
2022-07-04	Mid-Flood	TCE-C1	Cloudy	Rough	10:47	8.4	Surface	1.0	1	26.4	7.9	14.1	7.3	98.4	8.2	4.3	7.1	9.5	4.7
									2	26.3	7.9	14.1	7.2	98.1	8.2	4.0			
							Middle	4.2	1	26.3	7.9	16.0	7.1	95.8	9.5	4.9			
							Bottom	7.4	1	26.3	7.9	16.1	7.0	95.5	9.4	4.5			
				2	26.3	7.9	20.1	6.6	92.0	11.0	5.4								
				2	26.3	7.9	20.1	6.7	92.3	10.9	5.0								
		TCE-C2	Cloudy	Rough	8:21	14.4	Surface	1.0	1	26.3	7.8	12.5	7.1	94.6	5.4	5.0	6.9	5.8	4.3
				2	26.3	7.8	12.5	7.1	94.4	5.4	4.8								
		Middle	7.2	1	26.3	7.8	15.7	6.7	91.7	5.5	4.3								
		Bottom	13.4	1	26.3	7.8	15.7	6.8	91.6	5.5	4.5								
				2	26.2	7.7	22.1	6.0	84.3	6.5	3.4								
				2	26.2	7.7	22.1	6.1	85.0	6.5	3.8								
	TCE-WQM1	Cloudy	Moderate	9:43	8.1	Surface	1.0	1	26.3	7.9	17.3	7.0	95.0	5.2	3.7	6.7	8.3	4.3	
			2	26.3	7.9	17.3	7.0	94.9	5.1	3.9									
	Middle	4.1	1	26.3	7.9	19.6	6.4	88.6	8.6	4.3									
	Bottom	7.1	1	26.3	7.9	19.6	6.4	88.4	8.6	4.2									
			2	26.3	7.9	20.1	6.4	89.0	11.1	4.8									
			2	26.3	7.9	20.1	6.4	89.2	11.0	4.7									
	TCE-WQM2a	Cloudy	Rough	9:04	7.5	Surface	1.0	1	26.3	7.8	14.0	7.1	96.6	5.1	3.3	7.1	6.1	3.9	
			2	26.3	7.8	14.0	7.1	96.6	5.1	3.5									
	Middle	3.8	1	26.3	7.8	14.1	7.1	95.5	5.3	4.0									
	Bottom	6.5	1	26.3	7.8	14.2	7.1	95.4	5.3	3.8									
			2	26.3	7.8	17.9	6.7	91.3	8.0	4.2									
			2	26.3	7.8	17.9	6.7	91.4	7.9	4.4									
TCE-WQM2b	Cloudy	Rough	8:49	11.7	Surface	1.0	1	26.3	7.8	11.4	7.1	94.3	5.7	4.7	6.9	7.9	4.0		
		2	26.3	7.8	11.4	7.0	94.0	5.7	4.4										
Middle	5.9	1	26.2	7.8	14.0	6.8	90.5	8.6	4.1										
Bottom	10.7	1	26.2	7.8	14.0	6.7	89.7	8.6	3.8										
		2	26.2	7.8	19.6	6.2	85.8	9.4	3.2										
		2	26.2	7.8	19.6	6.2	86.2	9.4	3.5										
TCE-WQM3A	Cloudy	Moderate	9:20	3.8	Surface	1.0	1	26.3	7.9	14.8	6.9	93.4	6.5	3.6	6.9	6.9	4.3		
		2	26.3	7.9	14.8	6.9	93.4	6.4	3.7										
Bottom	2.8	1	26.3	7.9	15.0	6.9	93.3	7.3	4.7										
		2	26.3	7.9	15.0	6.9	93.3	7.4	5.0										
TCE-WQM4	Cloudy	Moderate	9:31	4.0	Surface	1.0	1	26.3	7.9	15.0	7.1	95.0	6.9	3.7	7.1	7.4	4.6		
		2	26.3	7.9	15.0	7.1	95.1	6.9	3.6										
Bottom	3.0	1	26.3	7.9	16.1	7.1	96.3	7.9	5.3										
		2	26.3	7.9	16.1	7.1	96.4	7.9	5.7										

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)
2022-07-06	Mid-Ebb	TCE-C1	Cloudy	Moderate	16:01	8.1	Surface	1.0	1	26.9	8.1	6.9	7.3	95.0	8.7	5.9	6.6	9.2	7.3
									2	26.8	8.1	6.9	7.3	95.0	8.7	6.2			
							Middle	4.1	1	26.5	8.0	24.8	5.9	84.5	8.5	7.3			
							Bottom	7.1	1	26.3	8.0	24.9	5.9	84.7	8.5	7.6			
						2	26.3	8.0	30.5	5.4	78.7	10.1	8.2	5.3					
				2	26.3	8.0	30.5	5.3	78.6	10.7	8.5								
		Surface	1.0	1	27.1	8.0	7.4	7.6	99.5	5.9	5.0								
				2	27.1	8.0	7.4	7.6	99.3	5.8	5.2								
						1	26.4	8.0	17.2	6.3	86.0	6.0	4.5	6.9	6.4	4.4			
		Middle	6.4	1	26.4	8.0	17.5	6.3	85.9	6.2	4.2								
		Bottom	11.8	1	26.3	7.9	31.8	5.2	77.5	7.3	3.7								
				2	26.3	7.9	31.8	5.3	77.9	7.1	3.9								
					1	27.1	7.9	9.1	7.3	96.0	5.6	6.7	7.0	9.6	4.8				
			2	27.1	7.9	9.1	7.3	96.0	5.7	6.5									
	Middle	4.3	1	26.6	8.0	10.2	6.8	90.1	7.6	4.2									
	Bottom	7.6	1	26.6	8.0	10.2	6.8	89.9	7.5	4.0									
					2	26.5	7.9	20.7	5.8	80.8	15.6	3.5	5.8						
			2	26.5	7.9	20.7	5.8	81.0	15.5	3.9									
	Surface	1.0	1	27.0	7.9	8.1	7.4	96.9	9.5	5.1									
			2	27.0	7.9	8.1	7.4	96.9	9.5	4.8									
					1	26.5	7.9	12.9	6.6	88.5	6.7	4.4	7.0	8.0	4.5				
	Middle	3.6	1	26.5	7.9	12.9	6.6	88.3	6.9	4.6									
	Bottom	6.1	1	26.4	7.8	17.7	6.3	86.8	7.6	4.0									
			2	26.4	7.8	17.7	6.3	87.0	7.6	3.8									
				1	26.9	8.0	6.8	7.4	96.0	7.6	4.0	6.6	9.3	4.4					
Surface	1.0	1	26.9	8.0	6.8	7.4	95.6	7.7	3.7										
Middle	5.6	1	26.3	7.9	17.2	5.8	79.7	9.2	4.3										
Bottom	10.2	1	26.2	7.9	17.2	5.8	79.5	9.3	4.5										
				2	26.1	7.9	29.7	5.1	74.5	11.0	5.0	5.1							
		2	26.1	7.9	29.7	5.1	74.7	11.2	4.6										
Surface	1.0	1	26.9	7.9	7.7	7.3	95.5	9.8	5.4										
		2	26.9	7.9	7.7	7.3	95.2	10.0	5.1										
				1	26.8	7.9	8.7	7.2	94.4	12.0	4.6	7.2	10.9	5.0					
Bottom	2.6	1	26.8	7.9	8.7	7.2	94.4	12.0	4.6										
		2	26.8	7.9	8.7	7.2	94.5	11.8	5.0										
Surface	1.0	1	27.0	7.9	8.8	7.5	98.4	8.4	3.5										
				2	27.0	7.9	8.8	7.5	98.4	8.1	3.9	7.5	9.3	4.3					
Middle		1	27.0	7.9	8.8	7.4	98.1	10.1	4.7										
Bottom	2.4	1	27.0	7.9	8.8	7.4	98.2	10.5	5.0										
		2	27.0	7.9	8.8	7.4	98.2	10.5	5.0										
				1	26.9	7.9	7.7	7.3	95.5	9.8	5.4	7.3	10.9	5.0					
Surface	1.0	1	26.9	7.9	7.7	7.3	95.2	10.0	5.1										
Bottom	2.6	1	26.8	7.9	8.7	7.2	94.4	12.0	4.6										
		2	26.8	7.9	8.7	7.2	94.5	11.8	5.0										
				1	27.0	7.9	8.8	7.5	98.4	8.4	3.5	7.5	9.3	4.3					
Surface	1.0	1	27.0	7.9	8.8	7.5	98.4	8.1	3.9										
Bottom	2.4	1	27.0	7.9	8.8	7.4	98.1	10.1	4.7										
		2	27.0	7.9	8.8	7.4	98.2	10.5	5.0										
				1	26.9	8.0	6.4	7.6	97.9	6.6	3.6	6.6	10.2	5.1					
Surface	1.0	1	27.1	8.1	6.1	7.5	97.4	9.6	3.6										
Middle	4.1	1	26.4	8.0	23.7	5.8	82.2	8.3	4.3										
Bottom	7.2	1	26.4	8.0	23.7	5.8	82.0	8.3	4.5										
				2	26.4	8.0	30.4	5.5	81.4	12.9	7.3	5.5							
		2	26.4	8.0	30.4	5.6	81.6	12.2	7.3										
Surface	1.0	1	26.9	8.0	6.4	7.6	97.9	6.6	3.6										
		2	26.9	8.0	6.4	7.5	97.7	6.6	3.8										
				1	26.4	7.9	17.4	6.2	85.1	5.0	4.1	6.9	5.9	4.2					
Middle	6.6	1	26.4	7.9	17.4	6.2	85.0	5.1	4.4										
Bottom	12.2	1	26.1	7.9	31.2	4.9	71.9	6.0	4.8										
		2	26.1	7.9	31.2	4.9	72.0	6.1	4.6										
				1	26.8	7.9	9.0	7.1	92.7	7.0	5.3	6.9	10.3	4.5					
Surface	1.0	1	26.8	7.9	9.0	7.0	92.5	7.1	4.9										
Middle	4.0	1	26.6	7.9	10.0	6.9	90.2	11.6	4.6										
Bottom	7.0	1	26.6	7.9	9.9	6.8	90.0	11.9	4.3										
				2	26.5	7.9	20.9	5.8	81.5	12.2	3.7	5.8							
		2	26.5	7.9	20.9	5.8	81.7	12.5	3.9										
Surface	1.0	1	26.8	7.9	8.2	7.5	97.7	5.8	3.6										
		2	26.8	7.9	8.2	7.5	97.7	5.8	3.8										
				1	26.7	7.9	9.3	7.0	92.6	7.2	4.3	7.2	7.8	4.4					
Middle	3.9	1	26.7	7.9	9.4	7.0	92.5	7.3	4.5										
Bottom	6.7	1	26.5	7.8	14.1	6.1	82.2	10.0	4.9										
		2	26.5	7.8	14.1	6.1	82.2	10.6	5.1										
				1	26.9	8.0	6.3	7.4	95.5	8.0	4.4	6.8	10.0	5.0					
Surface	1.0	1	26.9	8.0	6.2	7.4	95.4	7.9	4.2										
Middle	5.7	1	26.4	7.9	14.4	6.2	83.1	9.1	4.9										
Bottom	10.3	1	26.4	7.9	14.4	6.2	82.9	9.3	5.2										
				2	26.1	7.9	24.3	5.0	71.1	12.9	5.4	5.0							
		2	26.1	7.9	24.2	5.0	71.1	12.8	5.8										
Surface	1.0	1	26.9	7.9	7.3	7.4	96.7	8.8	4.0										
		2	26.8	7.9	7.3	7.4	96.6	8.5	3.6										
				1	26.8	7.9	7.8	7.1	92.8	9.5	2.5	7.1	9.0	3.1					
Bottom	3.1	1	26.8	7.9	7.8	7.1	92.7	9.2	2.3										
		2	26.8	7.9	7.8	7.1	92.7	9.2	2.3										
Surface	1.0	1	26.9	7.9	8.9	7.3	96.4	5.6	2.9										
				2	26.9	7.9	8.9	7.3	96.4	5.6	2.8	7.3	5.6	3.1					
Bottom	2.9	1	27.0	7.8	9.1	7.3	96.3	5.7	3.3										
		2	27.1	7.8	9.1	7.3	96.3	5.7	3.5										

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)
2022-07-08	Mid-Ebb	TCE-C1	Fine	Rough	9:22	8.5	Surface	1.0	1	27.8	8.1	11.7	6.0	82.0	6.9	4.3	5.6	9.4	4.7
									2	27.8	8.1	11.2	6.1	82.2	7.0	4.0			
							Middle	4.3	1	27.3	8.1	18.8	5.2	73.1	9.2	4.4			
							Bottom	7.5	1	26.9	8.1	27.7	4.6	67.4	12.1	5.4			
				2	26.9	8.1	27.8	4.6	67.5	12.1	5.1								
		TCE-C2	Fine	Moderate	7:02	15.9	Surface	1.0	1	27.9	7.6	9.2	6.5	87.5	4.1	5.6	6.4	3.2	4.9
									2	27.9	7.6	9.2	6.5	87.4	4.1	5.3			
							Middle	8.0	1	27.8	7.7	10.7	6.2	83.9	3.6	5.1			
							Bottom	14.9	1	27.5	7.9	16.8	5.8	80.4	2.1	4.5			
				2	27.5	7.9	16.9	5.8	80.4	2.1	4.3								
		TCE-WQM1	Fine	Calm	8:20	10.3	Surface	1.0	1	27.9	7.8	10.9	6.3	85.0	4.5	4.4	5.7	5.4	4.2
									2	27.9	7.8	10.8	6.3	84.9	4.5	4.6			
	Middle						5.2	1	27.4	7.9	16.4	5.2	72.3	6.2	4.2				
	Bottom						9.3	1	27.1	7.9	23.8	4.6	66.4	5.6	3.9				
			2	27.1	7.9	23.8	4.6	66.5	5.6	3.7									
	TCE-WQM2a	Fine	Moderate	7:44	8.2	Surface	1.0	1	27.6	7.7	11.8	6.1	82.3	4.2	5.0	5.9	3.7	4.2	
								2	27.6	7.7	11.8	6.1	82.3	4.2	4.6				
						Middle	4.1	1	27.5	7.6	13.9	5.7	77.6	4.1	4.3				
						Bottom	7.2	1	27.2	7.7	20.5	5.1	72.5	2.9	3.4				
			2	27.2	7.7	20.5	5.1	72.5	3.0	3.6									
	TCE-WQM2b	Fine	Moderate	7:30	11.1	Surface	1.0	1	27.9	8.1	9.2	6.1	82.3	4.5	3.7	5.8	4.0	4.4	
								2	27.9	8.1	9.2	6.1	82.2	4.5	4.0				
						Middle	5.6	1	27.6	8.1	11.4	5.6	75.2	4.0	4.5				
						Bottom	10.1	1	27.2	8.1	18.8	5.0	69.8	3.6	4.7				
		2	27.2	8.1	18.9	5.0	69.9	3.5	4.9										
TCE-WQM3A	Fine	Calm	7:58	4.5	Surface	1.0	1	27.8	7.7	10.3	6.3	84.5	5.2	3.4	6.3	4.4	3.9		
							2	27.8	7.7	10.2	6.3	84.5	5.3	3.8					
					Bottom	3.5	1	27.8	7.8	10.5	6.1	82.8	3.6	4.3					
		2	27.8	7.8	10.5	6.1	82.8	3.6	4.0										
TCE-WQM4	Fine	Calm	8:08	4.1	Surface	1.0	1	27.9	8.1	10.4	6.4	86.0	5.9	4.1	6.4	6.6	3.8		
							2	27.9	8.1	10.4	6.4	85.9	5.9	4.4					
					Bottom	3.1	1	27.7	8.1	13.1	6.2	84.3	7.3	3.5					
		2	27.7	8.1	13.1	6.2	84.4	7.4	3.0										
2022-07-08	Mid-Flood	TCE-C1	Sunny	Moderate	12:15	7.2	Surface	1.0	1	28.1	7.9	8.8	6.3	84.8	5.5	5.2	6.0	7.6	4.4
									2	28.1	7.9	8.7	6.3	84.9	5.5	4.9			
							Middle	3.6	1	27.6	8.1	12.0	5.6	76.0	7.4	4.4			
							Bottom	6.2	1	27.0	8.1	23.8	4.8	68.2	9.8	3.8			
				2	27.0	8.1	23.9	4.8	68.2	9.8	3.4								
		TCE-C2	Sunny	Moderate	14:27	13.2	Surface	1.0	1	27.9	8.1	12.2	6.3	86.0	3.1	3.8	5.9	2.9	4.3
									2	27.9	8.1	11.9	6.3	85.9	3.1	3.9			
							Middle	6.6	1	27.4	8.0	16.0	5.5	75.8	2.5	4.1			
							Bottom	12.2	1	27.0	8.2	26.3	4.8	69.6	3.1	4.8			
				2	27.0	8.2	27.3	4.8	69.8	3.1	4.6								
		TCE-WQM1	Sunny	Moderate	13:01	9.1	Surface	1.0	1	28.4	8.2	10.2	6.8	92.3	3.1	4.4	6.5	4.4	4.1
									2	28.4	8.2	10.2	6.8	92.3	3.1	4.4			
							Middle	4.6	1	27.8	8.2	13.1	6.2	84.7	4.9	3.8			
							Bottom	8.1	1	27.4	8.2	16.9	5.5	75.9	5.2	3.6			
				2	27.5	8.2	16.9	5.5	76.0	5.2	4.0								
		TCE-WQM2a	Sunny	Calm	13:38	7.1	Surface	1.0	1	28.3	7.9	10.2	6.6	89.0	3.8	3.8	6.4	4.6	4.1
									2	28.3	7.9	10.2	6.6	89.0	3.8	3.5			
							Middle	3.6	1	27.7	8.0	11.8	6.2	83.7	4.7	4.2			
							Bottom	6.1	1	27.4	7.9	16.6	5.6	77.1	5.4	4.8			
				2	27.4	7.9	16.5	5.6	77.3	5.4	4.4								
		TCE-WQM2b	Sunny	Moderate	13:53	9.2	Surface	1.0	1	28.5	8.0	10.1	6.6	89.8	3.6	4.9	6.3	4.5	4.4
									2	28.5	8.0	10.1	6.6	89.7	3.7	5.2			
							Middle	4.6	1	27.7	8.0	11.8	6.0	82.0	5.3	4.6			
							Bottom	8.2	1	27.7	8.0	11.9	6.0	81.8	5.2	4.2			
		2	27.1	8.0	21.0	4.9	68.6	4.7	3.4										
		2	27.1	8.0	21.0	4.9	68.7	4.8	3.8										
TCE-WQM3A	Sunny	Calm	13:27	4.2	Surface	1.0	1	28.2	8.1	10.3	6.6	88.8	5.0	4.4	6.6	5.2	4.1		
							2	28.2	8.2	10.3	6.6	88.8	5.0	4.8					
					Bottom	3.2	1	27.6	8.1	12.9	5.9	81.0	5.3	3.8					
		2	27.7	8.1	12.9	6.0	81.2	5.4	3.5										
TCE-WQM4	Sunny	Calm	13:14	3.9	Surface	1.0	1	28.0	8.1	10.4	6.4	86.8	4.9	4.5	6.4	5.5	4.4		
							2	28.0	8.1	10.4	6.4	86.8	4.9	4.5					
					Bottom	2.9	1	27.4	8.1	16.4	5.4	75.2	6.0	4.4					
		2	27.4	8.1	16.4	5.4	75.4	6.1	4.2										

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)
2022-07-11	Mid-Ebb	TCE-C1	Sunny	Moderate	9:17	8.4	Surface	1.0	1	27.6	8.0	15.4	6.1	84.0	8.3	4.3	5.9	11.3	4.0
									2	27.6	8.0	15.4	6.1	84.0	8.4	4.4			
							Middle	4.2	1	27.2	8.0	18.0	5.7	79.4	6.7	4.1			
							Bottom	7.4	1	26.5	8.0	28.4	5.0	72.3	18.9	3.8			
				2	26.5	8.0	28.4	5.0	72.4	18.9	3.6								
		TCE-C2	Sunny	Moderate	11:18	14.6	Surface	1.0	1	28.7	8.1	8.3	7.9	107.2	6.0	4.8	7.2	6.3	4.2
									2	28.7	8.1	8.3	7.9	107.2	6.1	4.5			
							Middle	7.3	1	28.0	7.9	12.3	6.4	87.7	5.8	4.2			
							Bottom	13.6	1	27.2	7.9	19.6	5.5	76.6	6.9	3.6			
				2	27.2	7.9	19.6	5.5	76.6	7.0	3.9								
		TCE-WQM1	Sunny	Moderate	9:56	11.3	Surface	1.0	1	28.7	8.3	10.8	10.6	145.9	6.3	9.3	8.5	8.9	8.7
									2	28.7	8.3	10.8	10.6	146.0	6.3	9.5			
	Middle						5.7	1	27.8	8.0	14.7	6.4	87.6	8.4	8.9				
	Bottom						10.3	1	26.9	7.9	22.3	5.1	72.2	12.0	7.6				
			2	26.9	7.9	22.2	5.1	72.3	12.1	8.0									
	TCE-WQM2a	Sunny	Calm	10:31	7.9	Surface	1.0	1	28.5	8.3	13.7	9.9	137.6	6.8	4.6	8.9	6.7	6.4	
								2	28.5	8.3	13.7	9.9	137.6	6.8	4.4				
						Middle	4.0	1	28.0	8.2	16.4	7.9	110.9	6.7	6.2				
						Bottom	6.9	1	27.8	8.1	17.2	7.2	100.3	6.5	8.0				
			2	27.8	8.1	17.2	7.2	100.4	6.6	8.3									
	TCE-WQM2b	Sunny	Moderate	10:44	11.5	Surface	1.0	1	28.7	8.1	8.6	7.8	106.0	6.0	5.2	7.3	6.2	4.5	
								2	28.6	8.1	8.6	7.8	106.0	6.0	5.5				
						Middle	5.8	1	28.0	7.9	11.6	6.7	91.9	6.3	4.9				
						Bottom	10.5	1	28.0	7.9	11.6	6.8	92.0	6.3	4.5				
		2	28.1	7.9	11.8	6.8	92.5	6.2	3.6										
		2	28.1	7.9	11.8	6.8	92.6	6.2	3.3										
TCE-WQM3A	Sunny	Calm	10:19	4.4	Surface	1.0	1	28.9	8.4	12.7	9.6	133.8	8.6	8.4	9.6	9.9	8.0		
							2	28.9	8.4	12.7	9.6	133.2	8.6	8.1					
					Bottom	3.4	1	27.4	8.0	19.1	5.4	76.5	11.1	7.9					
							2	27.4	8.0	19.1	5.5	76.8	11.1	7.5					
TCE-WQM4	Sunny	Calm	10:08	3.8	Surface	1.0	1	29.6	8.3	11.3	10.7	149.6	6.1	7.3	10.7	7.9	7.5		
							2	29.6	8.3	11.3	10.7	149.6	6.1	7.2					
					Bottom	2.8	1	28.3	8.2	12.7	8.1	112.2	9.7	7.9					
							2	28.3	8.2	12.7	8.2	112.3	9.8	7.7					
2022-07-11	Mid-Flood	TCE-C1	Fine	Moderate	4:34	8.1	Surface	1.0	1	28.4	8.1	10.1	7.6	102.7	7.6	3.0	6.2	10.2	3.3
									2	28.4	8.1	10.1	7.5	102.6	7.7	2.8			
							Middle	4.1	1	26.9	7.9	21.7	4.8	68.1	9.1	3.5			
							Bottom	7.1	1	26.9	7.9	21.8	4.8	68.2	9.2	3.2			
				2	26.9	7.9	23.0	4.9	69.4	13.8	3.6								
				2	26.9	7.9	23.0	4.9	69.5	13.9	3.7								
		TCE-C2	Fine	Moderate	2:25	13.6	Surface	1.0	1	28.1	8.2	11.8	8.5	116.9	4.8	3.7	7.9	4.9	3.5
									2	28.1	8.2	11.8	8.5	116.7	4.8	4.0			
							Middle	6.8	1	27.8	8.1	16.3	7.3	101.5	4.6	3.6			
							Bottom	12.6	1	26.9	8.0	23.2	6.0	85.9	5.4	3.3			
				2	26.9	8.0	23.3	6.0	85.4	5.5	3.0								
		TCE-WQM1	Fine	Calm	3:55	10.3	Surface	1.0	1	29.0	8.2	11.2	10.2	140.3	6.2	6.1	9.9	8.1	6.4
								2	29.0	8.2	11.2	10.2	140.3	6.2	5.8				
	Middle						5.2	1	28.6	8.2	11.4	9.8	134.6	6.8	6.3				
	Bottom						9.3	1	28.2	8.1	13.5	7.3	100.5	11.2	6.8				
			2	28.2	8.2	13.4	7.3	100.5	11.3	7.0									
	TCE-WQM2a	Fine	Moderate	3:21	8.4	Surface	1.0	1	28.1	8.0	11.2	7.1	96.6	5.1	5.4	6.4	6.4	5.7	
								2	28.1	8.0	11.2	7.1	96.6	5.1	5.2				
						Middle	4.2	1	27.5	7.9	16.0	5.6	77.8	8.8	5.8				
						Bottom	7.4	1	27.2	7.9	16.1	5.6	77.7	8.7	5.7				
			2	27.2	7.9	19.2	5.5	77.1	5.2	6.0									
			2	27.2	7.9	19.2	5.5	77.2	5.4	6.1									
	TCE-WQM2b	Fine	Moderate	3:08	10.7	Surface	1.0	1	28.2	8.2	11.5	8.8	120.9	4.5	3.8	7.9	4.7	3.4	
								2	28.2	8.2	11.6	8.8	120.8	4.5	3.7				
Middle						5.4	1	27.7	8.1	18.6	7.0	98.7	4.5	3.4					
Bottom						9.7	1	26.2	8.0	29.4	5.2	75.4	5.2	3.0					
		2	26.2	8.0	29.4	5.2	75.5	5.2	3.2										
TCE-WQM3A	Fine	Calm	3:33	4.2	Surface	1.0	1	28.2	8.3	14.0	8.6	119.5	6.7	3.4	8.6	6.6	4.5		
							2	28.1	8.3	14.1	8.6	119.3	6.7	3.8					
					Bottom	3.2	1	28.0	8.2	15.5	7.8	108.7	6.5	5.1					
							2	28.0	8.2	15.5	7.8	108.7	6.5	5.5					
TCE-WQM4	Fine	Calm	3:44	4.0	Surface	1.0	1	28.4	8.1	12.8	7.6	104.7	6.3	7.1	7.6	9.4	6.8		
							2	28.4	8.1	12.8	7.6	104.6	6.3	6.9					
					Bottom	3.0	1	27.5	7.9	17.2	5.5	76.5	12.6	6.4					
							2	27.5	7.9	17.2	5.5	76.6	12.5	6.7					

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)
2022-07-13	Mid-Ebb	TCE-C1	Sunny	Moderate	10:50	8.8	Surface	1.0	1	28.8	7.9	14.6	7.0	97.8	9.7	12.3	6.2	9.6	8.5
									2	28.8	7.9	14.7	6.9	97.5	9.7	11.9			
							Middle	4.4	1	27.2	8.1	20.6	5.4	76.0	8.1	7.3			
							Bottom	7.8	1	27.2	8.1	20.6	5.4	76.0	8.1	7.1			
				2	26.9	8.0	31.3	4.4	65.7	11.1	6.0								
				2	26.9	8.0	31.2	4.4	66.3	11.1	6.3								
		TCE-C2	Sunny	Moderate	12:48	13.3	Surface	1.0	1	29.0	8.0	17.0	8.1	115.2	3.5	10.8	7.8	4.1	10.3
									2	29.0	8.0	17.0	8.1	115.2	3.5	11.0			
							Middle	6.7	1	28.9	8.0	17.0	7.6	108.9	3.6	10.2			
							Bottom	12.3	1	28.8	8.0	17.1	7.6	108.6	3.7	10.5			
				2	28.1	8.0	21.0	6.0	86.8	5.2	9.9								
				2	28.1	8.0	21.2	6.0	86.6	5.0	9.4								
	TCE-WQM1	Sunny	Moderate	11:40	8.5	Surface	1.0	1	28.8	8.1	16.4	7.6	108.2	6.6	10.6	6.4	10.5	7.7	
								2	28.8	8.1	16.4	7.6	108.1	6.7	10.1				
						Middle	4.3	1	27.9	8.1	20.5	5.2	74.7	11.7	7.6				
						Bottom	7.5	1	27.9	8.1	20.5	5.2	74.1	12.0	7.3				
			2	27.9	8.0	23.4	4.8	70.1	12.9	5.3									
			2	27.9	8.0	23.3	4.8	70.3	12.8	5.4									
	TCE-WQM2a	Sunny	Moderate	12:13	7.5	Surface	1.0	1	28.9	8.1	17.9	7.7	110.2	5.8	7.4	7.3	9.6	7.8	
								2	28.9	8.1	17.9	7.7	110.2	5.8	7.3				
						Middle	3.8	1	28.5	8.1	19.4	6.9	99.3	10.2	7.6				
						Bottom	6.5	1	28.5	8.1	19.5	6.9	99.2	10.5	7.8				
			2	28.2	8.0	20.1	6.4	91.6	12.5	8.3									
			2	28.2	8.0	20.1	6.4	91.5	12.8	8.1									
TCE-WQM2b	Sunny	Moderate	12:26	10.6	Surface	1.0	1	29.5	8.0	14.2	8.4	119.2	2.7	10.5	7.4	3.8	8.8		
							2	29.5	8.0	14.2	8.4	119.1	2.7	10.0					
					Middle	5.3	1	28.5	7.9	17.4	6.4	90.6	4.2	8.6					
					Bottom	9.6	1	28.5	7.9	17.5	6.4	90.6	4.3	8.3					
		2	28.5	8.0	18.3	6.5	92.2	4.6	7.8										
		2	28.5	8.0	18.3	6.5	92.3	4.6	7.3										
TCE-WQM3A	Sunny	Moderate	12:02	4.0	Surface	1.0	1	28.7	8.1	17.1	7.5	106.0	7.5	7.6	7.5	8.3	6.5		
							2	28.6	8.1	17.1	7.4	105.5	7.8	7.3					
					Bottom	3.0	1	28.3	8.0	21.2	6.0	85.9	9.0	5.9					
							2	28.3	8.0	21.2	6.0	86.2	8.9	5.3					
TCE-WQM4	Sunny	Moderate	11:52	3.1	Surface	1.0	1	29.8	8.1	15.3	10.9	155.6	4.0	8.8	10.9	5.1	9.3		
							2	29.8	8.1	15.3	10.9	155.5	4.1	8.5					
					Bottom	2.1	1	29.1	8.0	16.2	9.3	133.0	6.1	10.1					
							2	29.1	8.0	16.3	9.3	132.3	6.1	9.7					
2022-07-13	Mid-Flood	TCE-C1	Fine	Moderate	6:58	8.8	Surface	1.0	1	27.8	8.1	14.7	6.6	91.2	6.2	9.1	6.0	10.6	10.5
									2	27.8	8.1	14.7	6.6	91.2	6.2	9.6			
							Middle	4.4	1	26.2	8.1	21.5	5.4	76.4	13.6	10.6			
							Bottom	7.8	1	26.2	8.1	21.6	5.4	76.1	13.7	10.9			
				2	25.9	8.0	31.6	4.2	63.2	12.0	11.6								
				2	25.9	8.0	31.6	4.2	63.5	11.9	11.2								
		TCE-C2	Fine	Moderate	4:42	13.8	Surface	1.0	1	28.2	7.9	15.7	6.5	91.1	6.4	7.5	5.7	10.4	6.6
									2	28.2	7.9	15.7	6.5	91.1	6.4	7.3			
							Middle	6.9	1	26.3	7.9	26.2	4.9	70.5	11.9	6.8			
							Bottom	12.8	1	26.2	7.9	26.4	4.8	69.6	12.2	6.6			
				2	25.9	7.9	31.0	3.9	57.1	12.9	5.8								
				2	25.9	7.9	31.0	3.9	57.3	12.7	5.8								
	TCE-WQM1	Fine	Moderate	5:59	8.3	Surface	1.0	1	27.4	8.1	16.9	6.7	94.8	9.4	8.0	6.3	11.3	9.5	
								2	27.3	8.1	17.0	6.7	94.5	9.6	8.2				
						Middle	4.2	1	26.9	8.0	17.9	5.9	83.0	12.3	9.6				
						Bottom	7.3	1	26.9	8.0	18.0	5.8	81.6	12.6	9.4				
			2	27.0	8.0	22.6	5.0	72.6	12.3	10.5									
			2	27.0	8.0	22.5	5.0	72.9	12.0	11.0									
	TCE-WQM2a	Fine	Moderate	5:25	7.8	Surface	1.0	1	27.9	8.0	18.1	6.7	95.9	3.8	5.3	6.6	3.0	6.6	
								2	27.9	8.0	18.1	6.7	95.9	3.8	5.7				
						Middle	3.9	1	27.2	8.1	18.9	6.5	91.4	2.8	6.9				
						Bottom	6.8	1	27.1	8.1	18.8	6.4	90.9	2.7	6.8				
			2	26.8	8.0	26.2	5.5	79.7	2.4	7.5									
			2	26.9	8.0	26.1	5.5	79.9	2.3	7.1									
TCE-WQM2b	Fine	Moderate	5:13	11.1	Surface	1.0	1	27.7	8.0	15.8	6.6	92.6	6.3	6.6	6.0	9.0	5.3		
							2	27.6	7.9	15.8	6.6	92.6	6.6	6.2					
					Middle	5.6	1	26.9	8.0	24.5	5.4	78.4	9.5	5.3					
					Bottom	10.1	1	26.8	8.0	24.5	5.4	78.3	9.6	5.0					
		2	26.2	8.0	29.4	4.4	65.3	11.1	4.6										
		2	26.2	8.0	29.4	4.5	65.5	11.0	4.1										
TCE-WQM3A	Fine	Moderate	5:36	4.7	Surface	1.0	1	27.7	7.9	15.9	6.5	91.1	4.9	8.0	6.5	6.0	7.5		
							2	27.6	7.9	15.9	6.5	91.1	4.8	7.6					
					Bottom	3.7	1	27.6	8.0	17.5	6.1	85.4	7.2	7.3					
							2	27.6	8.0	17.4	6.1	85.4	7.3	7.1					
TCE-WQM4	Fine	Moderate	5:47	3.3	Surface	1.0	1	28.0	8.0	14.9	6.9	96.7	4.5	6.2	6.9	4.7	6.6		
							2	28.0	8.0	14.9	6.9	96.7	4.5	6.2					
					Bottom	2.3	1	27.8	8.0	14.9	5.9	82.1	4.9	6.8					
							2	27.8	8.0	15.0	5.9	82.1	5.1	7.3					

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)					
2022-07-15	Mid-Ebb	TCE-C1	Sunny	Rough	12:36	7.7	Surface	1.0	1	28.1	8.0	15.0	5.8	80.1	4.9	3.3	5.5	6.3	4.3					
									2	28.1	8.0	15.0	5.8	80.1	4.9	3.7								
							Middle	3.9	1	27.8	7.9	16.0	5.3	74.0	6.3	4.3								
							Bottom	6.7	1	27.7	7.9	17.2	4.9	68.1	7.8	5.3								
						2	27.7	7.9	17.2	4.9	68.2	7.8	5.2	4.9										
		TCE-C2	Sunny	Moderate	14:53	13.4	Surface	1.0	1	27.7	8.0	17.3	5.6				78.2	3.5	4.4	5.4	3.2	4.8		
								2	27.7	8.0	17.3	5.6	78.1				3.5	4.1						
		Middle					6.7	1	27.4	8.0	19.4	5.3	74.4				3.1	4.8						
		Bottom					12.4	1	27.1	8.0	21.4	5.1	71.5	3.0	5.2									
						2	27.1	8.0	21.5	5.1	71.9	3.0	5.5	5.1										
		TCE-WQM1	Sunny	Moderate	13:21	9.8	Surface	1.0	1	28.1	8.0	15.7	5.7				79.1	3.2	3.9	5.3	3.6	4.2		
								2	28.0	8.0	15.7	5.7	79.1				3.3	3.6						
		Middle					4.9	1	27.0	8.0	21.1	5.0	69.9				3.6	4.0						
		Bottom					8.8	1	26.9	8.0	21.2	5.0	69.9	3.6	4.3									
						2	26.2	8.0	24.9	4.6	65.5	4.0	4.6	4.6										
		TCE-WQM2a	Sunny	Moderate	14:09	6.9	Surface	1.0	1	28.3	8.0	15.3	5.8				81.5	3.0	5.2	5.7	4.5	4.5		
								2	28.3	8.0	15.3	5.8	81.5				3.0	4.9						
		Middle					3.5	1	26.2	7.9	24.9	5.6	80.9				4.2	4.3						
		Bottom					5.9	1	26.2	7.9	25.1	5.6	80.8	4.1	4.7									
						2	25.8	7.9	26.8	4.2	60.1	6.5	3.6	4.2										
		TCE-WQM2b	Sunny	Moderate	14:23	10.2	Surface	1.0	1	27.3	8.0	19.5	6.0				83.8	3.1	7.0	5.6	4.0	5.9		
								2	27.3	8.0	19.5	6.0	83.8				3.1	6.8						
		Middle					5.1	1	26.8	8.0	22.3	5.2	73.4				3.3	6.2						
		Bottom					9.2	1	26.8	8.0	22.3	5.2	73.3	3.4	5.8									
						2	25.5	7.9	27.9	4.8	67.6	5.7	5.0	4.8										
		TCE-WQM3A	Sunny	Calm	13:48	4.9	Surface	1.0	1	27.5	8.0	17.3	5.4				75.5	4.0	4.2	5.4	3.8	5.0		
								2	27.4	8.0	17.4	5.4	75.4				4.1	4.7						
		Bottom					3.9	1	26.9	8.0	22.0	4.9	69.8				3.6	5.7						
										2	26.9	8.0	21.9	4.9	69.9	3.6	5.3	4.9						
		TCE-WQM4	Sunny	Calm	13:32	4.1	Surface	1.0	1	27.8	8.0	18.7	5.5	77.7	3.2	4.4	5.5			3.7	4.7			
								2	27.8	8.0	18.7	5.5	77.9	3.2	4.0									
		Bottom					3.1	1	27.1	8.0	21.2	5.1	71.7	4.3	5.0									
										2	27.2	8.0	21.2	5.1	71.8	4.3		5.3	5.1					
		2022-07-15	Mid-Flood	TCE-C1	Fine	Moderate	8:12	8.1	Surface	1.0	1	28.0	8.0	15.0	5.5	76.7	5.6	7.3		5.3	6.5			6.9
											2	28.0	8.0	15.0	5.5	76.6	5.5	7.6						
									Middle	4.1	1	27.9	8.0	15.4	5.0	69.9	6.3	7.2						
									Bottom	7.1	1	27.9	8.0	15.4	5.0	69.9	6.2	6.8						
								2	27.7	8.0	16.8	5.3	73.6	7.6	6.5	5.3								
				TCE-C2	Fine	Moderate	5:52	14.1	Surface	1.0	1	27.1	8.0	20.5	5.0				70.2	4.1	6.6	4.6	5.5	6.9
										2	27.1	8.0	20.5	5.0	70.0				4.1	6.2				
				Middle					7.1	1	26.2	8.0	24.7	4.3	61.4				5.9	7.0				
				Bottom					13.1	1	26.2	8.0	24.7	4.3	61.4	5.8	6.7							
								2	25.9	8.0	25.3	4.3	60.4	6.4	7.2	4.3								
				TCE-WQM1	Fine	Calm	7:21	10.6	Surface	1.0	1	28.0	8.0	15.7	5.9				82.2	6.0	5.5	5.9	7.6	5.1
										2	28.0	8.0	15.7	5.9	82.2				6.0	6.0				
				Middle					5.3	1	27.4	8.0	18.8	5.9	81.5				6.9	5.3				
				Bottom					9.6	1	27.4	8.0	18.7	5.9	81.5	6.9	4.9							
								2	26.8	7.9	22.2	4.7	66.2	9.8	4.2	4.7								
TCE-WQM2a	Fine			Moderate	6:42	7.8	Surface	1.0	1	26.7	7.9	22.4	4.7	66.2	9.8				4.5	5.5	5.5	5.8		
								2	26.7	7.9	22.4	4.7	66.2	9.8	4.5									
Middle							3.9	1	27.7	8.0	16.8	5.5	77.2	5.4	5.9									
Bottom							6.8	1	27.7	8.0	16.9	5.5	77.2	5.4	5.8									
						2	27.3	8.0	19.8	5.0	70.8	6.8	5.3	5.0										
TCE-WQM2b	Fine			Moderate	6:29	11.5	Surface	1.0	1	27.3	8.0	19.8	5.0				70.9	6.8	5.5	5.7	7.0	6.7		
								2	27.3	8.0	19.8	5.0	70.9				6.8	5.5						
Middle							5.8	1	27.8	8.0	15.7	5.9	81.3				5.1	6.1						
Bottom							10.5	1	27.7	8.0	17.6	5.5	76.6	6.7	6.6									
						2	26.9	8.0	21.6	4.8	68.5	9.1	7.3	4.9										
TCE-WQM3A	Fine			Calm	6:53	5.7	Surface	1.0	1	26.9	8.0	21.7	4.9				69.0	9.2	7.6	5.9	7.2	5.7		
								2	26.9	8.0	21.7	4.9	69.0				9.2	7.6						
Bottom							4.7	1	27.3	8.0	19.3	5.0	70.4				7.9	6.6						
										2	27.3	8.0	19.4	5.0	70.7	7.9	6.0	5.0						
TCE-WQM4	Fine			Calm	7:07	5.2	Surface	1.0	1	28.1	8.0	15.5	6.0	84.0	5.2	7.4	6.0			6.4	6.7			
								2	28.1	8.0	15.5	6.0	84.0	5.2	7.4									
Bottom							4.2	1	27.9	8.0	16.2	4.4	61.8	7.6	5.9									
										2	27.9	8.0	16.2	4.4	61.7	7.6		6.2	4.4					

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)
2022-07-18	Mid-Ebb	TCE-C1	Fine	Moderate	14:55	7.7	Surface	1.0	1	28.3	7.9	15.3	6.1	85.2	7.1	5.6	4.8	11.8	5.0
									2	28.4	7.9	15.3	6.1	84.6	7.1	6.0			
							Middle	3.9	1	26.4	7.9	27.3	3.5	50.0	9.4	5.0			
							Bottom	6.7	1	26.2	7.8	29.7	3.2	47.2	19.0	4.4			
				2	26.2	7.8	29.8	3.2	47.4	19.0	4.5								
		TCE-C2	Fine	Moderate	16:50	13.0	Surface	1.0	1	28.7	8.0	17.4	6.2	88.0	3.6	2.4	5.2	8.0	2.9
									2	28.6	8.0	17.4	6.2	88.0	3.6	2.2			
							Middle	6.5	1	26.8	7.9	26.0	4.3	62.0	5.9	2.6			
							Bottom	12.0	1	25.7	7.9	26.8	4.2	61.6	5.8	3.0			
				2	25.7	7.9	30.6	3.9	56.2	14.6	3.7								
		TCE-WQM1	Fine	Moderate	15:41	9.2	Surface	1.0	1	28.7	7.9	17.8	6.1	87.2	7.7	5.0	5.9	11.7	5.5
									2	28.7	7.9	17.9	6.1	87.0	7.9	4.8			
	Middle						4.6	1	28.5	7.9	18.2	5.6	80.2	9.0	5.2				
	Bottom						8.2	1	28.5	7.9	18.2	5.6	80.1	8.9	5.5				
			2	28.0	7.9	20.8	4.8	68.8	18.4	6.3									
	TCE-WQM2a	Fine	Moderate	16:15	6.8	Surface	1.0	1	29.2	8.0	16.3	6.5	92.2	4.9	4.7	5.8	7.6	4.3	
								2	29.2	8.0	16.3	6.5	92.2	4.9	4.9				
						Middle	3.4	1	27.9	7.9	19.2	5.3	74.5	7.6	4.1				
						Bottom	5.8	1	27.9	7.9	19.2	5.0	71.5	7.4	4.5				
			2	27.1	7.9	25.0	4.3	62.1	10.5	3.6									
	TCE-WQM2b	Fine	Moderate	16:26	10.5	Surface	1.0	1	28.3	7.9	18.6	5.6	80.0	5.8	1.7	5.4	7.9	2.2	
								2	28.2	7.9	18.7	5.6	79.9	5.9	1.9				
						Middle	5.3	1	28.0	7.9	19.9	5.2	73.6	6.5	2.2				
						Bottom	9.5	1	26.2	7.9	19.8	5.2	73.5	6.4	2.1				
		2	26.2	7.9	28.5	4.0	57.6	11.3	2.5										
TCE-WQM3A	Fine	Calm	16:04	3.5	Surface	1.0	1	29.1	7.9	16.0	6.5	92.5	7.1	5.1	6.5	8.4	5.0		
							2	29.2	7.9	16.0	6.5	92.6	7.0	5.6					
					Bottom	2.5	1	28.9	7.9	16.2	6.4	90.8	9.7	4.8					
							2	28.9	7.9	16.2	6.4	91.2	9.8	4.5					
TCE-WQM4	Fine	Calm	15:53	3.8	Surface	1.0	1	28.9	7.9	17.0	6.3	89.6	5.6	5.5	6.3	6.6	4.9		
							2	28.9	7.9	17.0	6.3	89.7	5.5	5.6					
					Bottom	2.8	1	28.6	7.9	17.3	6.0	85.7	7.7	4.3					
							2	28.6	7.9	17.3	6.0	85.8	7.8	4.0					
2022-07-18	Mid-Flood	TCE-C1	Fine	Moderate	11:04	7.9	Surface	1.0	1	28.2	7.9	16.0	5.8	81.1	9.6	4.2	4.6	14.9	3.8
									2	28.2	7.9	15.9	5.8	80.6	9.7	4.6			
							Middle	4.0	1	26.5	7.9	27.2	3.5	50.7	12.0	3.7			
							Bottom	6.9	1	26.4	7.9	27.0	3.5	51.1	12.0	4.0			
				2	26.1	7.9	30.0	3.1	44.9	23.0	3.0								
		TCE-C2	Fine	Moderate	9:07	13.4	Surface	1.0	1	28.4	7.9	16.3	5.9	83.7	3.7	4.8	5.0	8.7	3.9
									2	28.4	7.9	16.3	5.9	83.5	3.7	4.4			
							Middle	6.7	1	26.6	7.9	25.7	4.2	59.7	6.8	3.5			
							Bottom	12.4	1	26.5	7.9	25.8	4.1	59.4	6.9	4.0			
				2	25.8	7.9	30.1	3.5	50.8	15.5	3.1								
		TCE-WQM1	Fine	Moderate	10:21	9.5	Surface	1.0	1	28.6	7.9	17.5	6.1	87.0	6.6	7.3	6.1	9.2	6.4
									2	28.6	7.9	17.5	6.1	86.9	6.6	7.1			
	Middle						4.8	1	28.6	7.9	17.7	6.0	85.6	7.0	6.8				
	Bottom						8.5	1	28.6	7.9	17.7	6.0	85.5	7.2	6.4				
			2	28.4	7.9	18.5	5.6	80.5	14.0	5.5									
	TCE-WQM2a	Fine	Moderate	9:46	6.7	Surface	1.0	1	28.5	7.9	17.0	5.9	84.0	4.3	3.3	5.9	6.8	2.7	
								2	28.5	7.9	17.0	5.9	84.0	4.3	3.1				
						Middle	3.4	1	28.5	7.9	17.2	5.8	82.3	6.8	2.6				
						Bottom	5.7	1	28.5	7.9	17.2	5.8	82.1	6.9	2.8				
			2	28.3	7.9	17.9	5.6	79.5	9.3	2.2									
	TCE-WQM2b	Fine	Moderate	9:31	10.6	Surface	1.0	1	28.3	7.9	17.4	5.7	80.9	5.8	4.3	5.7	9.3	4.6	
								2	28.3	7.9	17.4	5.7	80.9	5.9	3.9				
						Middle	5.3	1	28.2	7.9	17.9	5.7	80.3	7.2	4.8				
						Bottom	9.6	1	28.2	7.9	17.9	5.7	80.3	7.3	4.4				
		2	27.2	7.9	23.9	4.5	64.5	14.8	4.9										
TCE-WQM3A	Fine	Calm	9:58	3.8	Surface	1.0	1	28.6	7.9	16.6	6.0	84.4	13.5	3.7	6.0	16.8	2.9		
							2	28.6	7.9	16.6	6.0	84.2	13.4	3.3					
					Bottom	2.8	1	28.6	7.9	16.9	5.9	83.4	20.1	2.1					
							2	28.6	7.9	16.9	5.9	83.9	20.2	2.3					
TCE-WQM4	Fine	Calm	10:08	4.2	Surface	1.0	1	28.6	7.9	16.4	6.1	86.4	10.2	6.4	6.1	12.9	6.8		
							2	28.6	7.9	16.4	6.1	86.2	10.2	6.2					
					Bottom	3.2	1	28.6	7.9	16.6	6.1	86.2	15.6	7.1					
							2	28.6	7.9	16.6	6.1	86.4	15.6	7.5					

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)
2022-07-20	Mid-Ebb	TCE-C1	Sunny	Moderate	16:21	8.4	Surface	1.0	1	28.7	8.1	12.1	6.9	95.0	2.4	2.8	5.9	6.1	2.5
									2	28.7	8.1	12.1	6.9	94.8	2.2	3.1			
							Middle	4.2	1	27.7	7.9	18.1	4.9	68.8	6.6	2.4			
							Bottom	7.4	1	26.4	7.9	24.9	3.4	48.9	9.4	2.1			
				2	26.4	7.9	24.8	3.4	49.1	9.9	2.2	3.4							
		Surface	1.0	1	27.8	8.0	20.3	5.8	82.0	1.0	3.3								
				2	27.8	8.0	20.3	5.7	81.7	1.1	3.1								
		Middle	6.6	1	25.3	7.9	28.0	3.6	51.3	2.6	2.5								
				2	25.2	7.9	28.3	3.6	50.7	2.8	2.8	4.7	2.4	2.7					
		Bottom	12.1	1	24.8	7.9	29.7	3.3	47.8	3.6	2.2								
				2	24.8	7.9	29.7	3.4	48.0	3.6	2.4								
		Surface	1.0	1	28.8	8.0	17.0	6.0	85.2	2.6	2.6				5.3	6.6	2.6		
			2	28.8	8.0	17.0	6.0	84.9	2.8	3.0									
	Middle	4.1	1	27.8	7.9	18.9	4.7	65.7	7.0	2.8									
	Bottom	7.2	1	26.7	7.9	19.0	4.6	65.3	6.8	2.6									
			2	26.8	7.9	23.7	3.6	51.3	10.2	2.2	3.6								
	Surface	1.0	1	28.9	8.1	16.9	6.7	96.0	1.4	1.8									
			2	28.9	8.1	16.9	6.7	96.0	1.4	1.9									
	Middle	3.4	1	27.2	7.9	21.2	4.9	69.3	4.5	2.2				5.8	4.1	2.3			
			2	27.2	7.9	21.3	4.9	69.3	4.5	2.4									
	Bottom	5.8	1	27.1	7.9	21.9	4.9	69.6	6.4	2.8									
			2	27.1	7.9	22.0	4.9	69.7	6.7	2.6	4.9								
	Surface	1.0	1	28.4	8.0	18.3	6.0	85.4	2.3	2.7									
			2	28.4	8.0	18.3	6.0	85.0	2.5	3.0									
Middle	6.2	1	26.1	7.9	24.2	4.1	57.7	5.3	2.3	5.0				4.6	2.3				
		2	26.0	7.9	24.3	4.1	57.4	5.4	2.1										
Bottom	11.3	1	25.3	7.9	28.1	3.7	52.8	6.1	1.8										
		2	25.3	7.9	28.1	3.7	53.0	6.1	1.9		3.7								
Surface	1.0	1	28.0	7.9	18.6	5.5	77.9	5.8	0.9										
		2	27.9	7.9	18.7	5.5	77.3	6.1	0.8										
Bottom	3.7	1	27.8	8.0	19.0	5.5	77.2	7.5	2.5	5.5				6.7	1.6				
		2	27.9	8.0	19.0	5.5	77.7	7.6	2.1										
Surface	1.0	1	28.7	8.0	16.7	6.7	95.3	1.7	1.7		6.7	2.8	1.9						
		2	28.7	8.0	16.7	6.7	95.2	1.7	1.5										
Bottom	2.2	1	28.4	8.0	17.5	6.2	87.3	4.0	2.1										
		2	28.4	8.0	17.5	6.2	87.1	3.9	2.2	6.2									
Surface	1.0	1	28.6	8.1	12.5	6.8	93.9	3.9	2.5										
		2	28.6	8.1	12.6	6.8	93.6	3.8	2.7										
Middle	4.1	1	27.8	8.0	17.3	5.4	74.9	2.2	3.2		6.1	5.2	3.1						
		2	27.7	8.0	17.3	5.3	74.0	2.2	2.9										
Bottom	7.2	1	26.4	7.9	25.0	3.6	51.4	9.9	3.9										
		2	26.4	7.9	25.0	3.6	51.8	9.3	3.6	3.6									
Surface	1.0	1	28.2	7.9	16.6	5.9	83.2	1.6	1.8										
		2	28.1	7.9	16.5	6.0	83.4	1.6	1.9										
Middle	7.1	1	27.0	7.9	21.3	4.6	65.3	2.7	2.1		5.3	3.2	2.2						
		2	26.9	7.9	21.4	4.5	64.1	3.0	2.3										
Bottom	13.2	1	25.4	7.9	27.9	3.6	50.7	5.2	2.6										
		2	25.4	7.9	27.8	3.6	50.8	5.0	2.4	3.6									
Surface	1.0	1	28.7	7.9	16.7	6.3	89.8	3.0	3.8										
		2	28.6	7.9	16.7	6.3	89.6	3.0	3.6										
Middle	4.0	1	28.3	7.9	17.0	5.8	81.9	4.5	4.1		6.1	7.7	4.1						
		2	28.2	7.9	17.0	5.8	81.5	4.8	3.9										
Bottom	7.0	1	27.4	7.8	20.9	4.6	65.8	15.3	4.5										
		2	27.4	7.8	21.0	4.6	66.0	15.7	4.8	4.6									
Surface	1.0	1	28.3	7.9	17.1	6.0	84.8	2.0	2.2										
		2	28.3	7.9	17.1	6.0	84.8	2.0	2.3										
Middle	3.8	1	27.9	7.9	17.9	5.5	76.9	9.4	2.5		5.7	7.8	2.7						
		2	27.9	7.9	17.9	5.5	76.9	9.3	2.8										
Bottom	6.5	1	27.7	7.9	19.0	5.2	73.1	12.4	3.0										
		2	27.8	7.9	19.0	5.2	73.3	12.0	3.3	5.2									
Surface	1.0	1	28.4	8.0	17.1	6.2	87.9	1.4	1.8										
		2	28.4	7.9	17.1	6.2	87.8	1.4	1.5										
Middle	5.6	1	27.5	7.9	20.3	5.0	71.0	6.7	2.1		5.6	4.9	2.2						
		2	27.5	7.9	20.1	5.0	70.8	6.8	2.3										
Bottom	10.1	1	25.8	7.8	24.8	3.9	54.9	6.6	2.6										
		2	25.8	7.8	26.6	3.9	55.3	6.5	2.8	3.9									
Surface	1.0	1	28.5	7.9	17.1	5.9	83.5	4.0	2.6										
		2	28.5	7.9	17.2	5.9	83.3	4.3	2.2										
Bottom	3.1	1	28.4	7.9	17.3	5.8	82.6	6.7	1.9		5.9	5.5	2.1						
		2	28.4	7.9	17.4	5.8	82.5	7.0	1.8										
Surface	1.0	1	28.3	7.9	17.2	5.9	83.8	4.0	3.6										
		2	28.2	7.9	17.3	5.9	83.7	4.3	3.1	5.9				4.8	2.9				
Bottom	2.5	1	28.2	7.9	17.6	5.9	83.9	5.4	2.3										
		2	28.2	7.9	17.7	6.0	84.1	5.5	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)
2022-07-22	Mid-Ebb	TCE-C1	Sunny	Calm	10:15	7.0	Surface	1.0	1	29.7	8.4	7.2	8.4	114.7	3.6	2.2	7.6	4.5	1.9
									2	29.6	8.4	7.3	8.3	112.7	3.5	2.5			
							Middle	3.5	1	29.4	8.2	11.1	7.0	96.8	4.1	1.9			
							Bottom	6.0	1	27.0	7.9	26.8	4.9	71.4	5.9	1.3			
				2	27.0	7.9	26.4	5.0	75.8	5.9	1.5								
				1	29.2	8.1	13.2	7.9	110.6	3.4	1.6								
				2	29.2	8.1	13.2	7.9	110.1	3.3	1.2								
		Middle	6.6	1	28.6	8.0	20.4	6.5	94.3	4.0	1.9								
				2	28.6	8.0	20.5	6.4	93.2	4.0	1.8								
		Bottom	12.2	1	26.8	8.0	27.5	5.5	80.0	4.4	2.1								
				2	26.8	8.0	27.5	5.5	80.7	4.5	2.2								
				1	28.4	8.1	17.8	6.6	100.4	5.4	2.8								
			2	28.3	8.1	17.9	6.7	95.3	5.4	2.6									
	Middle	3.2	1	28.1	7.9	21.4	5.0	71.6	6.8	2.4									
			2	28.0	7.8	21.3	4.9	70.9	6.9	2.4									
	Bottom	5.4	1	27.5	7.8	24.6	4.7	68.4	7.1	1.9									
			2	27.4	7.8	24.9	4.5	76.7	7.0	1.7									
			1	29.3	8.1	16.4	7.9	112.2	2.9	1.4									
			2	29.3	8.1	16.4	7.9	112.2	2.9	1.5									
	Middle	3.7	1	28.6	8.1	18.0	7.2	102.5	5.5	1.7									
			2	28.5	8.1	18.0	7.1	101.5	5.6	1.9									
	Bottom	6.4	1	28.4	7.9	24.5	5.8	84.7	6.0	2.4									
			2	28.5	7.9	24.4	6.0	88.2	6.0	2.2									
			1	29.4	8.2	11.2	7.5	103.9	3.2	1.8									
		2	29.3	8.1	11.4	7.4	102.7	3.2	1.9										
Middle	4.9	1	29.0	7.9	17.8	6.0	86.6	4.1	2.0										
		2	29.0	7.9	17.8	6.0	86.1	4.1	2.2										
Bottom	8.8	1	26.6	7.9	27.6	5.2	76.3	5.8	2.9										
		2	26.7	7.9	27.5	5.4	78.2	6.0	3.3										
		1	29.3	8.2	14.8	7.8	110.6	3.1	1.6										
		2	29.3	8.2	14.7	7.7	109.6	3.1	1.9										
Bottom	3.4	1	29.2	8.1	17.2	7.1	101.5	4.9	2.6										
		2	29.2	8.1	17.2	7.1	101.7	4.9	2.8										
		1	29.3	8.1	16.6	7.5	107.6	3.2	1.8										
		2	29.2	8.1	16.6	7.3	104.4	3.2	1.8										
Bottom	3.0	1	29.0	8.0	19.6	7.0	101.5	4.9	2.5										
		2	29.0	8.0	19.6	7.0	101.5	4.9	2.4										
2022-07-22	Mid-Flood	TCE-C1	Sunny	Calm	13:07	7.4	Surface	1.0	1	30.5	8.4	8.4	8.5	119.0	5.1	2.4	7.1	6.3	2.7
									2	30.5	8.4	8.5	8.5	118.7	5.1	2.2			
							Middle	3.7	1	28.7	8.1	16.0	5.7	80.4	6.2	2.7			
									2	27.3	7.9	16.6	5.7	73.7	6.2	2.7			
				1	27.3	8.0	25.4	5.7	83.1	7.4	3.0								
				2	27.3	8.0	25.0	5.6	91.5	7.5	3.0								
				1	30.0	8.3	15.5	8.4	121.2	3.0	1.2								
				2	30.1	8.3	15.2	8.3	119.2	3.0	1.1								
		Middle	6.5	1	26.4	8.0	28.7	5.3	77.5	4.2	2.3								
				2	26.3	8.0	28.9	5.4	78.3	4.1	2.6								
		Bottom	12.0	1	26.4	8.0	28.9	6.5	94.6	3.7	3.2								
				2	26.6	8.0	28.8	6.6	100.3	3.5	3.4								
				1	29.9	8.3	16.2	9.0	129.8	3.6	2.6								
				2	29.8	8.3	16.2	9.0	129.4	3.5	3.0								
		Middle	3.3	1	29.0	8.2	18.4	8.5	122.5	4.0	3.7								
				2	28.9	8.2	18.5	8.4	120.7	4.1	3.4								
		Bottom	5.6	1	28.2	8.0	22.4	5.7	82.5	5.9	4.2								
				2	28.2	8.0	22.3	6.0	86.6	5.8	3.9								
				1	28.6	8.2	16.9	8.4	118.6	1.0	3.5								
				2	28.6	8.2	16.9	8.4	118.6	1.0	3.2								
		Middle	3.1	1	28.4	8.1	19.9	7.5	108.0	1.9	2.7								
				2	28.4	8.1	21.3	7.4	106.8	1.9	3.0								
		Bottom	5.2	1	28.4	8.1	21.4	6.9	100.2	3.1	2.1								
				2	28.4	8.1	21.3	7.1	102.4	2.9	2.3								
		1	30.2	8.3	13.0	8.6	122.2	4.5	4.4										
		2	30.2	8.3	13.1	8.5	121.8	4.6	4.0										
Middle	5.0	1	27.5	8.0	24.9	5.4	78.7	5.4	3.3										
		2	27.6	8.0	24.9	5.4	78.9	5.4	3.6										
Bottom	9.0	1	27.9	8.0	24.7	5.5	80.8	6.1	2.5										
		2	28.0	8.0	24.6	5.6	81.7	6.1	2.3										
		1	30.4	8.3	13.7	9.4	134.9	3.7	1.3										
		2	30.4	8.3	13.7	9.4	134.7	3.8	1.4										
Bottom	3.2	1	30.4	8.3	13.7	9.3	132.9	4.4	2.4										
		2	30.4	8.3	13.7	9.2	132.1	4.3	2.2										
		1	29.6	8.2	15.9	8.6	123.9	5.6	2.7										
		2	29.6	8.2	15.9	8.6	123.9	5.6	2.4										
Bottom	2.4	1	29.6	8.2	17.3	8.3	120.3	6.0	3.0										
		2	29.6	8.2	17.2	8.3	119.9	6.0	2.8										

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)		
2022-07-25	Mid-Ebb	TCE-C1	Sunny	Moderate	12:44	7.8	Surface	1.0	1	30.3	8.5	10.4	10.2	142.9	2.8	4.1	9.8	2.8	4.2		
									2	30.2	8.4	10.4	10.1	142.6	2.8	4.4					
							Middle	3.9	1	29.7	8.5	12.4	9.5	134.4	2.6	4.6					
							Bottom	6.8	1	29.7	8.5	12.4	9.5	134.3	2.6	3.6					
								2	29.5	8.5	13.2	9.1	127.7	3.0	4.4	9.1					
								2	29.5	8.5	13.2	9.1	127.7	3.0	4.0						
		Surface	1.0	1	30.3	8.5	13.1	11.2	160.1	1.3	2.2										
				2	30.3	8.5	13.1	11.2	160.0	1.3	2.2										
				Middle	7.4	1	28.2	8.2	20.7	7.8	111.7	1.9	2.3	9.5	1.5	2.0					
						2	28.2	8.2	20.7	7.8	111.5	1.9	1.8								
				Bottom	13.8	1	25.9	8.0	27.0	4.9	69.6	1.2	1.8								
						2	25.9	8.0	27.0	4.9	69.9	1.2	1.5								
				TCE-WQM1	Sunny	Moderate	11:50	10.1	Surface	1.0	1	31.1	8.5	13.8	9.8	142.2	3.7	4.4	7.2	4.6	4.6
								2	31.1	8.5	13.8	9.8	142.0	3.8	4.1						
				Middle	5.1	1	28.0	7.9	21.0	4.6	66.2	4.5	4.6								
				Bottom	9.1	1	26.6	7.8	25.2	2.4	33.9	5.6	4.7								
								2	26.6	7.8	25.2	2.4	33.9	5.6	4.2	2.4					
				TCE-WQM2a	Sunny	Moderate	11:15	7.3	Surface	1.0	1	29.9	8.4	16.0	10.0				143.7	1.6	2.0
								2	29.9	8.4	16.0	10.0	143.7	1.6	2.0						
				Middle	3.7	1	28.7	8.2	18.7	7.5	107.7	5.7	2.1								
								2	28.6	8.2	18.7	7.5	107.4	5.8	1.9	8.7	4.3	2.2			
				Bottom	6.3	1	26.2	8.0	26.0	5.7	81.7	5.5	2.6								
						2	26.2	8.0	26.0	5.7	81.6	5.6	2.6								
				TCE-WQM2b	Sunny	Moderate	11:03	10.2	Surface	1.0	1	30.0	8.4	12.9	10.9				153.9	2.2	2.4
							2	30.0	8.4	12.9	10.8	153.8	2.2	2.1	8.2	3.7	2.5				
			Middle	5.1	1	27.7	8.0	20.9	5.5	78.8	1.6	2.6									
					2	27.7	8.0	20.9	5.5	78.8	1.6	2.6									
			Bottom	9.2	1	24.7	7.9	29.7	3.1	44.6	7.3	2.4									
							2	24.7	7.9	29.7	3.1	44.7	7.3	2.7	3.1						
			TCE-WQM3A	Sunny	Calm	11:27	5.1	Surface	1.0	1	30.9	8.4	14.0	9.4				135.7	2.7	2.2	
							2	30.9	8.4	14.0	9.4	135.7	2.7	1.7				9.4	4.3	1.8	
			Bottom	4.1	1	29.6	8.2	16.0	7.9	112.9	5.8	1.3									
					2	29.6	8.2	16.0	7.9	112.9	5.8	1.8									
			TCE-WQM4	Sunny	Calm	11:37	4.8	Surface	1.0	1	31.4	8.4	13.6	10.9	159.0	2.6	1.8				
							2	31.4	8.4	13.6	10.9	158.7	2.6	1.6	10.9	6.0	2.0				
			Bottom	3.8	1	29.1	8.1	18.0	6.5	94.1	9.4	2.0									
					2	29.1	8.1	18.0	6.6	94.3	9.4	2.4									
	2022-07-25	Mid-Flood	TCE-C1	Fine	Moderate	17:03	7.2	Surface	1.0	1	30.8	8.4	10.0	10.5	149.2	2.9	3.5	10.1	2.8	3.7	
										2	30.7	8.4	10.0	10.5	149.0	2.9	4.0				
								Middle	3.6	1	29.8	8.5	12.1	9.7	136.9	2.7	4.5				
								Bottom	6.2	1	29.8	8.5	12.1	9.7	136.9	2.7	3.9				
									2	29.5	8.4	13.3	9.1	127.7	2.8	3.2	9.0				
									2	29.5	8.4	13.3	9.0	127.6	2.8	2.9					
			TCE-C2	Fine	Calm	18:56	13.1	Surface	1.0	1	30.8	8.4	13.5	11.6	168.3	1.4				4.3	
									2	30.8	8.4	13.5	11.6	168.1	1.4	4.6					
					Middle	6.6	1	27.7	8.2	21.5	5.7	82.1	1.5	2.8	8.7	2.1	3.4				
							2	27.6	8.2	21.5	5.7	82.0	1.5	2.5							
				Bottom	12.1	1	26.6	8.0	24.5	4.2	59.9	3.3	2.6								
						2	26.7	8.0	24.4	4.2	59.9	3.3	3.3								
				TCE-WQM1	Fine	Calm	17:41	9.6	Surface	1.0	1	31.8	8.4	13.9	11.4	167.6	2.6	3.0	9.9	3.7	3.2
								2	31.8	8.4	13.9	11.4	167.5	2.8	3.4						
				Middle	4.8	1	29.8	8.5	16.3	8.4	121.4	4.0	2.7								
				Bottom	8.6	1	29.8	8.5	16.3	8.4	121.4	4.0	3.2								
								2	27.4	8.1	20.4	5.9	84.2	4.6	4.0	5.9					
								2	27.4	8.1	20.4	5.9	84.9	4.6	3.1						
TCE-WQM2a			Fine	Calm	18:17	6.7	Surface	1.0	1	31.0	8.5	14.3	11.9	172.3	1.9				2.0		
								2	31.0	8.5	14.3	11.9	172.3	1.9	2.6						
				Middle	3.4	1	30.2	8.5	15.3	10.8	155.7	3.3	2.3	11.3	2.9	2.4					
						2	30.2	8.5	15.3	10.8	155.5	3.3	2.6								
				Bottom	5.7	1	28.9	8.3	18.6	8.0	115.6	3.7	2.2								
						2	28.9	8.3	18.6	8.1	115.8	3.7	2.8								
				TCE-WQM2b	Fine	Calm	18:32	9.5	Surface	1.0	1	30.5	8.5	11.1	11.0	156.4	3.4	4.8	10.7	3.7	4.3
								2	30.5	8.5	11.2	11.0	156.4	3.4	4.3						
				Middle	4.8	1	30.3	8.5	11.6	10.4	147.5	3.4	4.2								
				Bottom	8.5	1	30.3	8.5	11.6	10.4	147.2	3.5	4.2								
								2	28.0	8.1	20.5	6.0	85.2	4.2	4.3	6.0					
								2	28.0	8.1	20.5	6.0	86.1	4.2	4.2						
TCE-WQM3A			Fine	Calm	18:07	4.5	Surface	1.0	1	31.3	8.4	14.4	11.3	165.5	8.5				2.0		
								2	31.4	8.4	14.4	11.3	165.4	8.6	2.2						
				Bottom	3.5	1	28.8	8.1	19.1	6.2	89.7	10.5	1.6	11.3	9.5	2.1					
						2	28.8	8.1	19.1	6.2	89.9	10.5	2.4								
TCE-WQM4			Fine	Calm	17:54	4.2	Surface	1.0	1	31.4	8.5	14.2	11.2				163.7	5.8	3.2		
								2	31.4	8.4	14.2	11.2	163.4				5.4	3.0			
				Bottom	3.2	1	29.0	8.1	18.2	6.9	98.9	8.8	3.2	11.2	7.2	2.9					
						2	29.0	8.1	18.1	6.9	99.1	8.8	2.3								

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)
2022-07-27	Mid-Ebb	TCE-C1	Sunny	Moderate	11:25	8.4	Surface	1.0	1	29.3	8.4	18.6	7.8	113.3	3.7	2.4	6.6	6.5	2.8
									2	29.2	8.4	18.6	7.8	113.0	3.8	2.4			
							Middle	4.2	1	28.2	8.1	22.9	5.4	78.0	6.2	2.6			
							Bottom	7.4	1	26.0	8.0	31.1	3.3	48.3	9.2	3.5			
				2	26.0	8.0	31.1	3.3	48.6	9.8	3.2								
		TCE-C2	Sunny	Moderate	13:15	11.2	Surface	1.0	1	29.9	8.4	18.7	8.7	127.5	3.7	1.8	7.1	5.8	2.2
				2	29.9	8.4	18.7	8.7	127.5	3.8	1.9								
		Middle	5.6	1	27.1	8.1	26.9	5.4	79.2	5.4	2.1								
		Bottom	10.2	1	26.8	8.1	28.9	5.0	74.0	8.0	2.4								
				2	26.8	8.1	28.9	5.0	74.0	8.0	2.6								
		TCE-WQM1	Sunny	Moderate	12:08	8.0	Surface	1.0	1	29.6	8.5	19.7	6.4	93.1	7.5	4.1	4.7	9.3	3.5
				2	29.6	8.5	19.8	6.3	91.7	7.6	3.7								
	Middle	4.0	1	26.8	8.2	28.6	3.2	46.3	8.9	3.4									
	Bottom	7.0	1	26.8	8.2	28.7	3.2	46.5	8.9	3.6									
			2	26.8	8.2	28.9	3.4	49.5	11.9	3.1									
			2	26.8	8.2	28.9	3.4	49.9	11.2	2.9									
	TCE-WQM2a	Sunny	Moderate	12:42	6.4	Surface	1.0	1	28.8	8.3	22.5	7.0	102.5	6.5	3.9	6.5	9.3	4.4	
			2	28.8	8.3	22.5	7.0	102.5	6.5	3.8									
	Middle	3.2	1	28.3	8.1	23.6	5.9	87.0	10.0	4.4									
	Bottom	5.4	1	27.9	8.1	25.0	4.8	69.9	11.6	5.0									
			2	27.9	8.1	24.9	4.8	70.7	11.7	4.7									
	TCE-WQM2b	Sunny	Moderate	12:53	10.4	Surface	1.0	1	29.5	8.3	18.5	8.1	117.5	3.9	1.5	7.4	7.1	2.2	
			2	29.5	8.3	18.5	8.1	117.5	3.9	1.7									
	Middle	5.2	1	28.9	8.2	20.5	6.7	98.1	7.5	2.1									
Bottom	9.4	1	26.0	8.0	27.8	4.0	57.5	10.1	2.6										
		2	25.9	8.0	27.9	4.0	57.6	10.3	2.9										
TCE-WQM3A	Sunny	Moderate	12:30	3.5	Surface	1.0	1	29.3	8.3	19.9	7.9	114.7	7.8	2.7	7.8	9.5	3.3		
		2	29.2	8.3	19.9	7.8	113.4	8.3	3.0										
Bottom	2.5	1	28.6	8.1	22.4	5.7	83.3	11.0	3.9										
		2	28.6	8.1	22.4	5.7	83.4	11.1	3.7										
TCE-WQM4	Sunny	Moderate	12:20	3.2	Surface	1.0	1	30.1	8.5	18.9	8.7	127.7	5.6	2.5	8.7	7.1	3.1		
		2	30.0	8.5	19.0	8.6	126.7	5.8	2.8										
Bottom	2.2	1	29.7	8.3	20.6	7.3	106.8	8.4	3.4										
		2	29.7	8.3	20.5	7.3	107.1	8.6	3.8										
2022-07-27	Mid-Flood	TCE-C1	Fine	Moderate	20:11	7.8	Surface	1.0	1	30.1	8.4	18.7	8.4	124.6	8.7	2.2	7.5	7.8	2.6
									2	30.0	8.4	18.7	8.4	124.6	9.0	2.2			
							Middle	3.9	1	29.3	8.1	23.1	6.5	97.4	6.0	2.7			
							Bottom	6.8	1	27.2	7.9	31.2	3.4	49.6	8.1	2.9			
				2	27.2	7.9	31.2	3.4	49.9	8.6	3.2								
		TCE-C2	Fine	Moderate	18:05	13.1	Surface	1.0	1	31.0	8.4	16.9	9.3	138.4	3.2	2.6	7.5	5.9	2.9
				2	31.0	8.4	16.9	9.3	138.4	3.3	2.3								
		Middle	6.6	1	29.2	8.2	24.2	5.7	85.9	5.7	3.1								
		Bottom	12.1	1	26.1	7.9	32.7	3.5	51.4	8.5	3.3								
				2	26.1	7.9	32.8	3.5	51.6	8.6	3.3								
		TCE-WQM1	Fine	Moderate	19:30	8.5	Surface	1.0	1	30.5	8.2	19.8	7.5	112.8	7.2	5.5	5.9	9.0	4.6
				2	30.5	8.2	19.7	7.5	112.4	7.4	5.2								
	Middle	4.3	1	28.2	7.9	26.3	4.2	63.1	8.8	4.8									
	Bottom	7.5	1	28.1	7.9	26.3	4.2	63.1	8.9	4.4									
			2	28.0	7.9	28.8	3.7	55.6	10.8	3.7									
			2	28.0	7.9	28.7	3.7	56.3	10.8	4.1									
	TCE-WQM2a	Fine	Moderate	18:56	7.4	Surface	1.0	1	30.2	8.2	20.5	9.3	139.1	6.0	2.3	7.4	5.0	2.6	
			2	30.2	8.2	20.5	9.3	139.1	6.0	2.1									
	Middle	3.7	1	29.6	8.1	22.8	5.5	82.6	4.7	2.8									
	Bottom	6.4	1	29.6	8.1	22.9	5.5	82.6	4.5	2.5									
			2	27.2	7.8	30.4	4.9	72.8	4.6	3.1									
			2	27.2	7.8	30.4	4.9	73.1	4.5	3.0									
	TCE-WQM2b	Fine	Moderate	18:38	10.6	Surface	1.0	1	31.0	8.4	16.9	8.6	128.6	3.2	3.4	7.1	5.0	2.7	
			2	31.0	8.4	16.9	8.7	128.6	3.3	3.1									
	Middle	5.3	1	29.0	8.2	24.8	5.5	83.2	4.2	2.8									
	Bottom	9.6	1	28.9	8.2	25.0	5.5	83.2	4.3	2.5									
			2	27.8	8.0	28.3	3.7	55.4	7.5	2.2									
			2	27.8	8.0	28.3	3.7	55.4	7.5	2.2									
	TCE-WQM3A	Fine	Moderate	19:08	3.9	Surface	1.0	1	30.2	8.3	19.1	9.0	134.2	5.2	3.3	9.0	7.7	3.9	
			2	30.2	8.3	19.2	9.0	134.2	5.3	3.5									
	Bottom	2.9	1	30.1	8.2	21.7	7.8	116.8	10.0	4.3									
			2	30.1	8.2	21.7	7.8	116.8	10.1	4.6									
	TCE-WQM4	Fine	Moderate	19:18	3.6	Surface	1.0	1	30.8	8.3	19.3	8.8	131.8	5.1	3.2	8.8	5.6	2.8	
			2	30.8	8.3	19.4	8.8	131.4	5.3	2.9									
	Bottom	2.6	1	30.8	8.3	19.6	7.7	115.3	6.0	2.4									
			2	30.8	8.3	19.6	7.7	115.6	6.2	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)														
2022-07-29	Mid-Ebb	TCE-C1	Misty	Moderate	13:53	7.0	Surface	1.0	1	27.9	8.1	21.4	4.1	60.5	4.3	2.4	3.4	5.2	2.9														
									2	27.7	8.1	21.5	4.2	59.9	4.3	2.6																	
							Middle	3.5	1	26.7	8.1	25.7	2.8	40.1	5.1	2.7																	
							Bottom	6.0	1	24.8	8.0	30.9	2.4	34.5	6.0	3.2																	
						2	24.8	8.0	30.8	2.4	34.9	6.0	3.5	2.4																			
		TCE-C2	Misty	Moderate	11:58	13.2	Surface	1.0	1	28.2	8.1	20.9	5.7				81.8	1.1	2.6	5.0	2.4	3.2											
								2	28.2	8.1	20.9	5.7	81.5				1.1	2.8															
		Middle					6.6	1	25.8	8.1	25.6	4.3	60.9				2.2	3.1															
		Bottom					12.2	1	25.7	8.1	25.6	4.2	60.4	2.1	3.2																		
						2	25.8	8.1	27.4	4.3	61.5	4.0	3.7	4.3																			
		TCE-WQM1	Misty	Moderate	13:08	6.4	Surface	1.0	1	28.5	8.0	20.6	5.5				79.9	5.6	3.6	5.3	6.5	2.8											
								2	28.4	8.0	20.6	5.5	79.1				5.7	3.4															
		Middle					3.2	1	28.1	8.0	21.0	5.2	74.0				6.7	2.9															
		Bottom					5.4	1	28.0	8.0	21.0	5.1	72.6	6.8	2.6																		
						2	27.9	8.0	22.7	4.5	64.6	7.1	2.1	4.5																			
		TCE-WQM2a	Misty	Moderate	12:34	7.4	Surface	1.0	1	27.9	8.1	21.8	5.5				79.3	1.1	1.5	5.3	1.4	2.5											
								2	27.9	8.1	21.8	5.5	79.3				1.1	1.8															
		Middle					3.7	1	26.6	8.1	25.4	5.2	74.3				1.2	2.6															
		Bottom					6.4	1	26.6	8.1	25.4	5.2	74.2	1.2	2.4																		
						2	26.3	8.1	26.4	5.2	75.2	2.1	3.5	5.2																			
		TCE-WQM2b	Misty	Moderate	12:19	9.8	Surface	1.0	1	27.5	8.1	21.2	5.4				76.9	1.5	2.7	4.8	2.3	3.3											
								2	27.4	8.1	21.2	5.3	75.8				1.5	3.0															
		Middle					4.9	1	26.4	8.1	25.5	4.2	60.5				2.1	3.2															
		Bottom					8.8	1	24.7	8.0	29.4	3.8	53.8	3.2	3.8																		
					2	24.8	8.0	29.3	3.9	55.7	3.2	3.7	3.8																				
	TCE-WQM3A	Misty	Moderate	12:45	4.4	Surface	1.0	1	29.0	8.1	19.8	6.0				86.6	1.2	2.9	5.9	1.6	2.4												
							2	29.1	8.1	19.8	5.9	86.2				1.1	3.2																
	Bottom					3.4	1	29.3	8.1	19.9	5.9	86.7				2.1	1.9																
							2	29.4	8.1	19.9	6.0	88.1	2.2	1.7																			
					1	29.6	8.1	19.4	6.3	92.0	4.1	2.2	6.3	4.6	2.8																		
	TCE-WQM4	Misty	Moderate	12:55	5.0	Surface	1.0	1	29.6	8.1	19.4	6.2				90.9	4.0	2.5	6.2														
							2	29.6	8.1	19.4	6.2	90.9				4.0	2.5																
	Bottom					4.0	1	29.8	8.1	19.7	6.1	89.8				5.1	3.1																
							2	30.0	8.1	19.5	6.4	93.5	5.1	3.3																			
	2022-07-29	Mid-Flood	TCE-C1	Misty	Moderate	19:04	7.2	Surface	1.0	1	29.1	8.4	19.7	5.5	79.4	4.3	3.0	4.1	5.2	3.7													
										2	29.1	8.4	19.7	5.3	76.9	4.3	3.4																
								Middle	3.6	1	25.0	8.2	30.6	2.8	40.9	5.3	3.7																
								Bottom	6.2	1	24.9	8.2	30.7	2.8	40.3	5.3	3.9																
										2	24.8	8.1	31.1	2.8	40.6	6.0	4.3																
										2	24.8	8.1	31.1	2.8	40.6	6.0	4.1																
								TCE-C2	Misty	Moderate	20:37	13.0	Surface	1.0	1	28.9	8.0				20.8	6.9	100.8	1.1	3.1	6.9	1.7	2.7					
														2	28.8	8.0	20.8				6.9	100.7	1.1	3.4									
								Middle					6.5	1	28.8	8.0	20.9				7.0	101.1	1.4	2.8									
								Bottom					12.0	1	28.8	8.1	20.9				7.0	101.6	1.5	2.6									
														2	28.8	8.0	20.9				7.0	101.3	2.4	2.2									
														2	28.8	8.0	20.9				7.0	101.1	2.5	2.3									
			TCE-WQM1	Misty	Moderate	19:33	8.2	Surface					1.0	1	29.7	8.1	19.8	5.3	79.0	4.6	2.9	4.5	5.3	2.5									
													2	29.6	8.1	19.9	5.4	78.5	4.6	3.3													
Middle			4.1					1					27.0	8.0	24.7	3.7	53.5	5.3	2.6														
Bottom			7.2					1					27.0	8.0	24.8	3.7	53.3	5.3	2.6														
								2					27.0	8.0	25.1	3.8	54.1	6.1	1.6														
								2					27.0	8.0	25.1	3.8	54.4	6.1	1.8														
TCE-WQM2a			Misty					Moderate	20:04	6.4	Surface	1.0	1	28.3	8.1	22.2	6.3	91.9	1.1	2.7	6.1				1.9	4.0							
												2	28.3	8.1	22.2	6.3	91.9	1.1	2.3														
Middle											3.2	1	27.8	8.1	23.2	5.8	83.3	1.7	3.5														
Bottom											5.4	1	27.8	8.1	23.2	5.8	83.9	1.7	3.8														
												2	27.7	8.1	23.4	6.2	90.3	2.9	5.6														
												2	27.7	8.1	23.3	6.3	90.8	2.8	5.9														
TCE-WQM2b				Misty	Moderate	20:16	10.0				Surface	1.0	1	28.1	8.0	21.4	5.5	79.7	1.1	4.9		5.5	1.7	4.5									
												2	28.1	8.0	21.5	5.5	79.5	1.1	5.2														
Middle											5.0	1	28.0	8.0	21.7	5.6	80.2	1.4	4.7														
Bottom											9.0	1	28.0	8.0	21.7	5.6	80.5	1.5	4.4														
												2	28.0	8.0	21.7	5.7	81.8	2.5	3.7														
												2	28.0	8.0	21.7	5.7	82.3	2.5	4.0														
TCE-WQM3A			Misty					Moderate	19:53	5.2	Surface	1.0	1	28.0	8.1	21.5	5.4	77.4	5.0	1.4	5.4				5.6	1.9							
												2	27.9	8.1	21.4	5.3	76.5	5.1	1.6														
Bottom											4.2	1	27.4	8.1	24.0	5.4	77.5	6.1	2.5														
												2	27.5	8.1	21.5	5.4	78.4	6.1	2.2														
TCE-WQM4											Misty	Moderate	19:43	4.0	Surface	1.0	1	30.8	8.1	19.5							7.6	113.8	5.0	1.7	7.5	5.6	2.0
																2	30.7	8.1	19.6	7.4							112.0	5.1	1.5				
Bottom				3.0	1	29.2	8.1								20.5	6.6	95.9	6.1	2.3														
					2	29.2	8.1								20.4	6.6	96.9	6.1	2.4														