

Annex G3

Monitoring Results for Water Quality

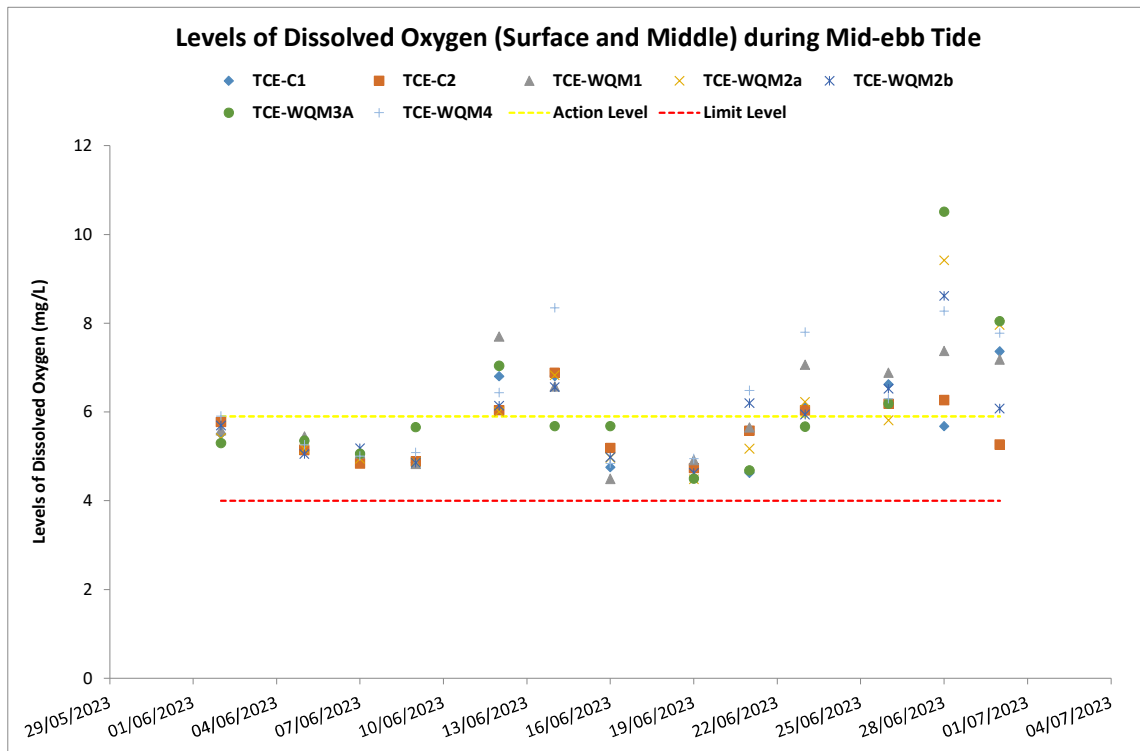


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 June 2023

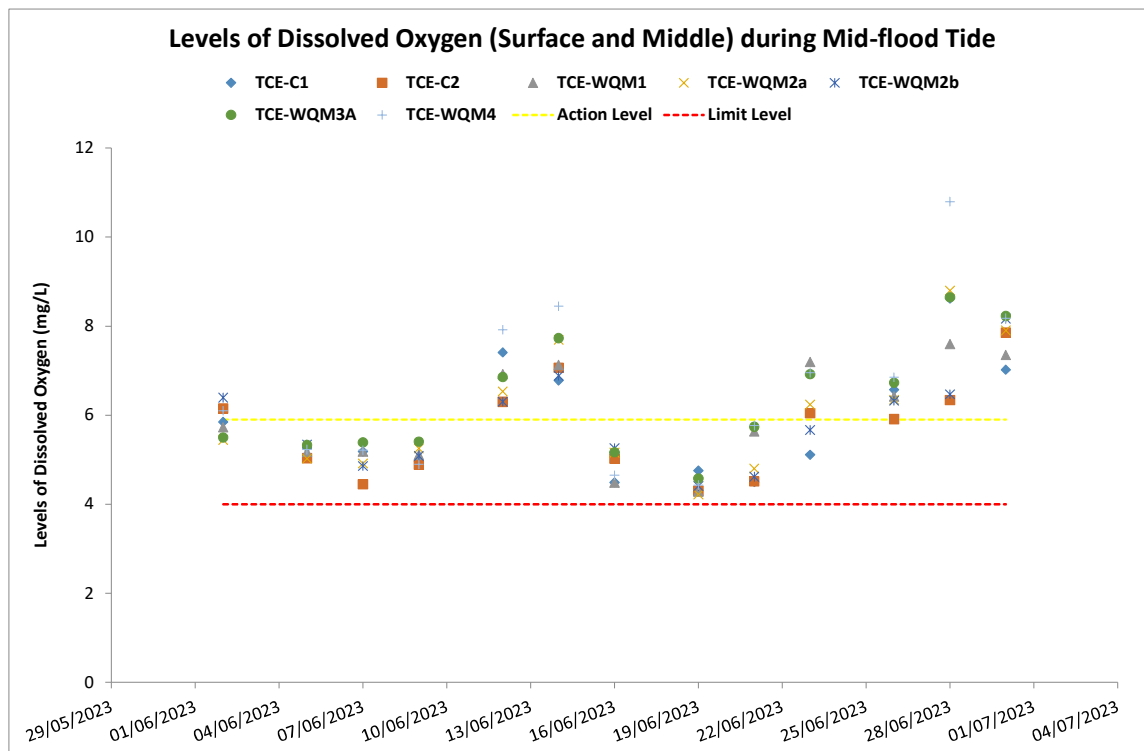


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 June 2023

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

Environmental Resources Management



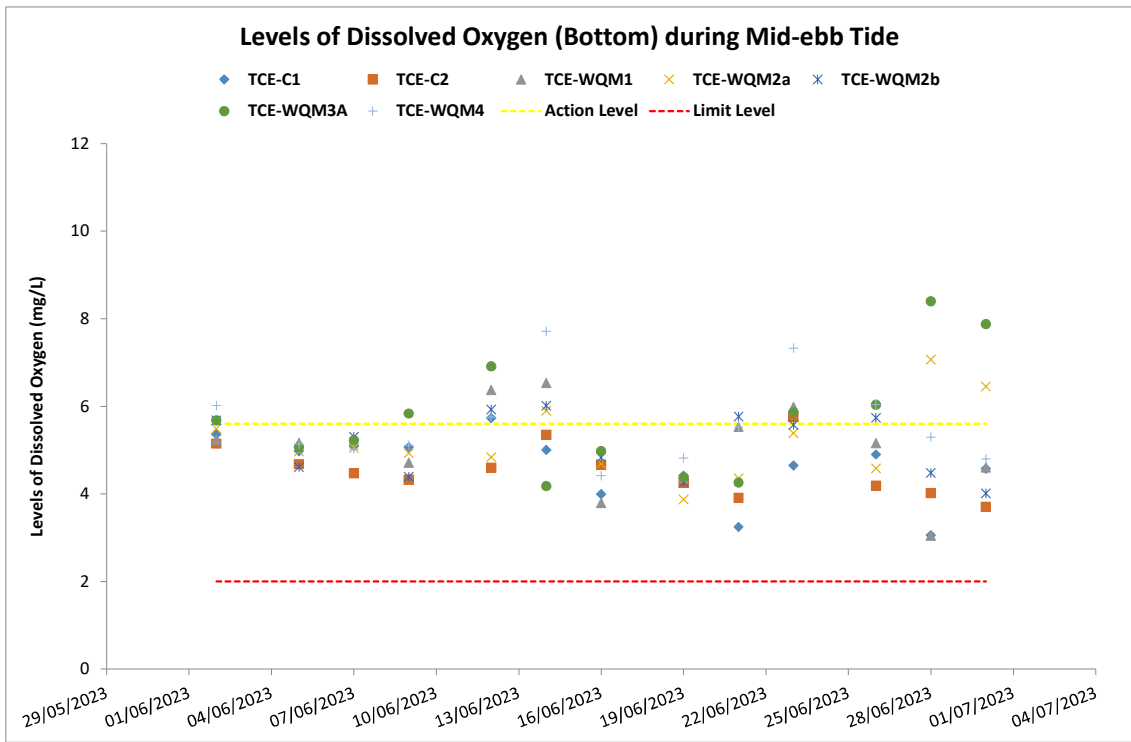


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 June 2023

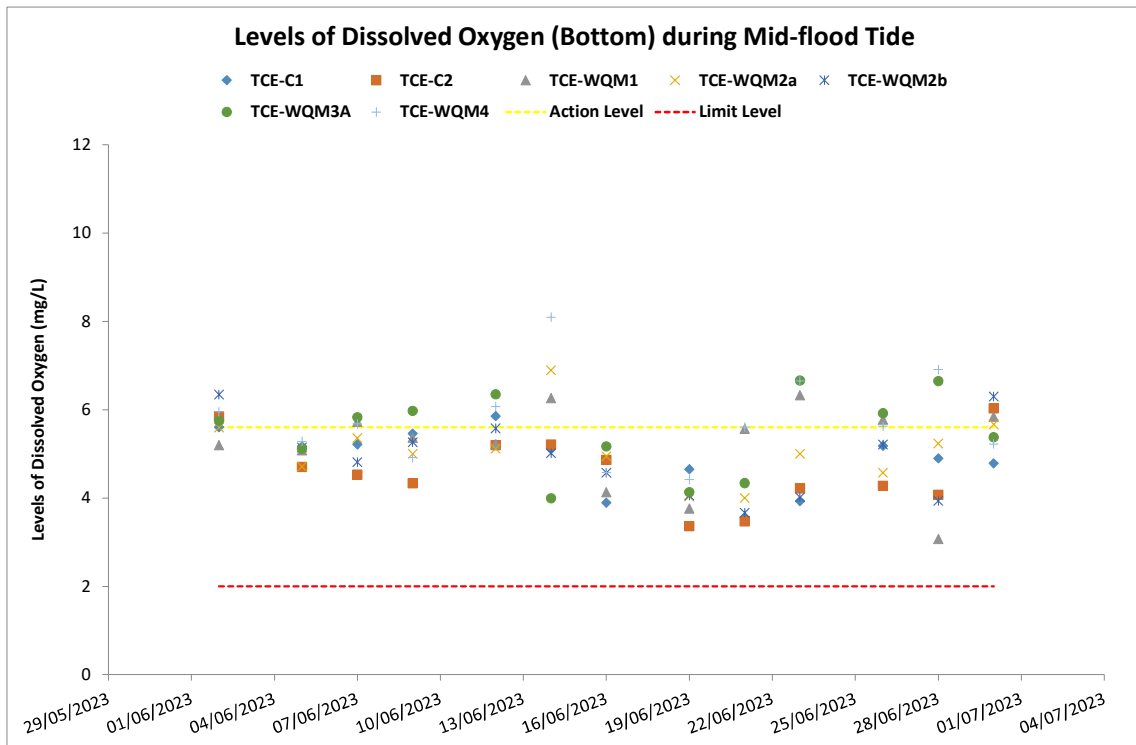


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 June 2023

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

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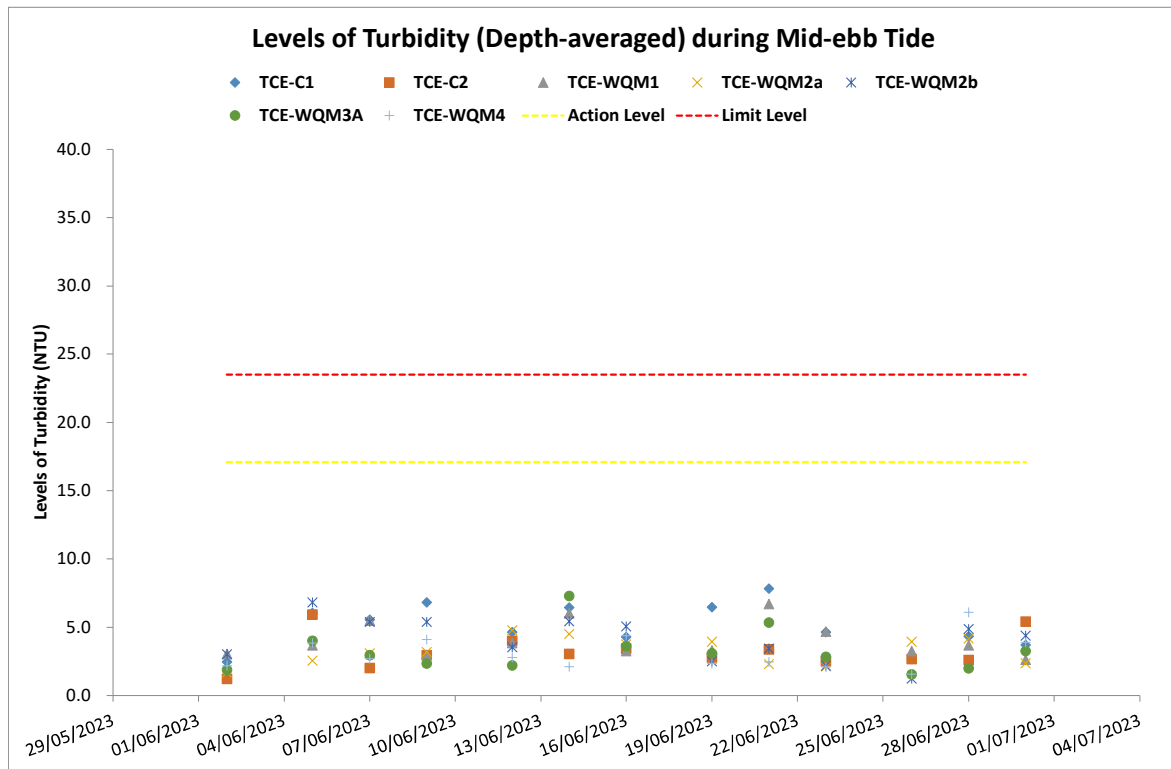


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 June 2023

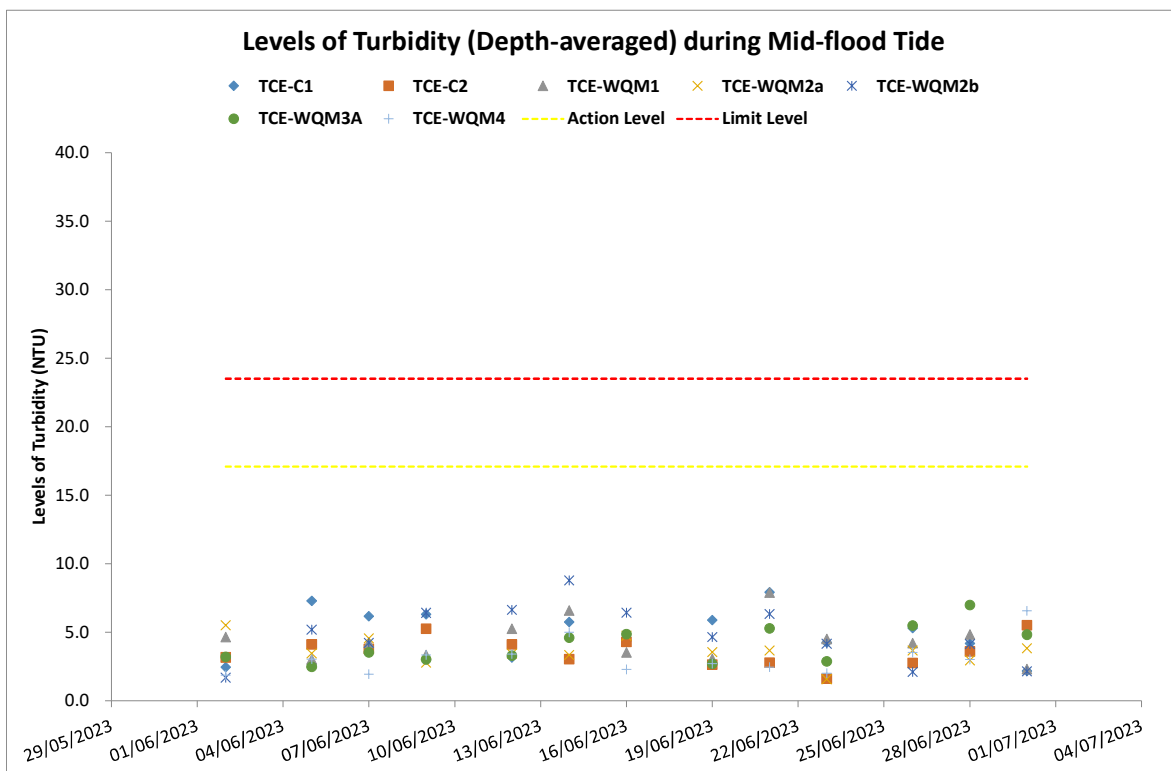


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 June 2023

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

Environmental Resources Management



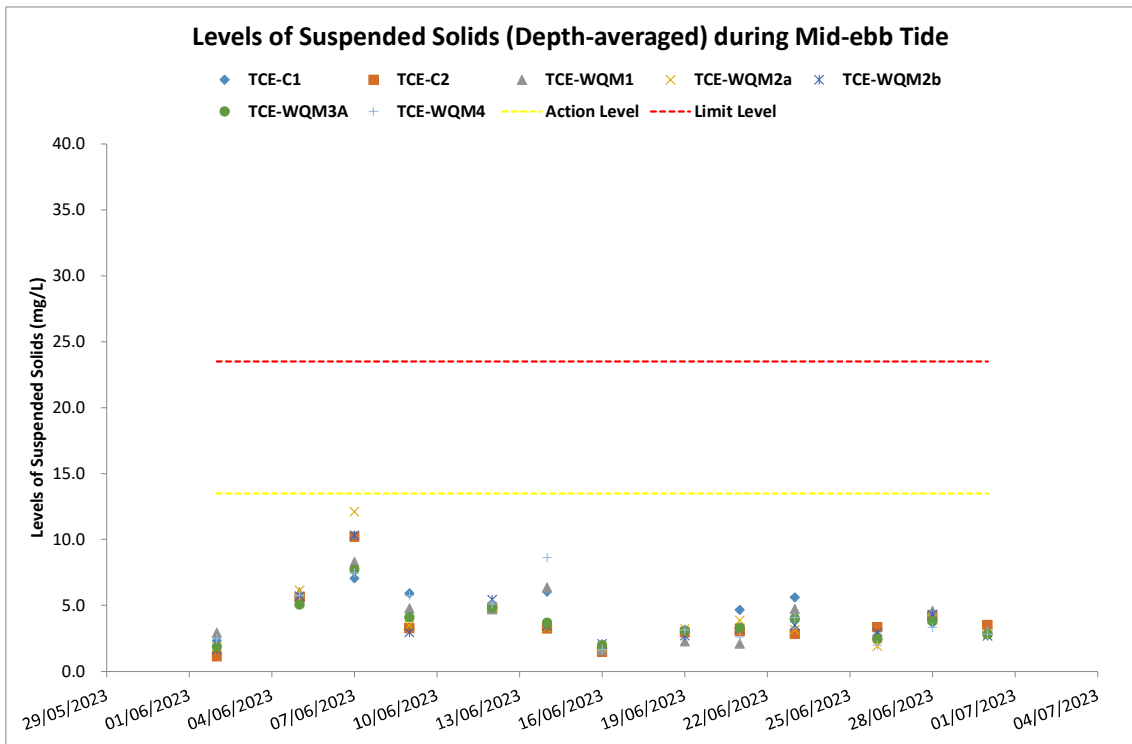


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 June 2023

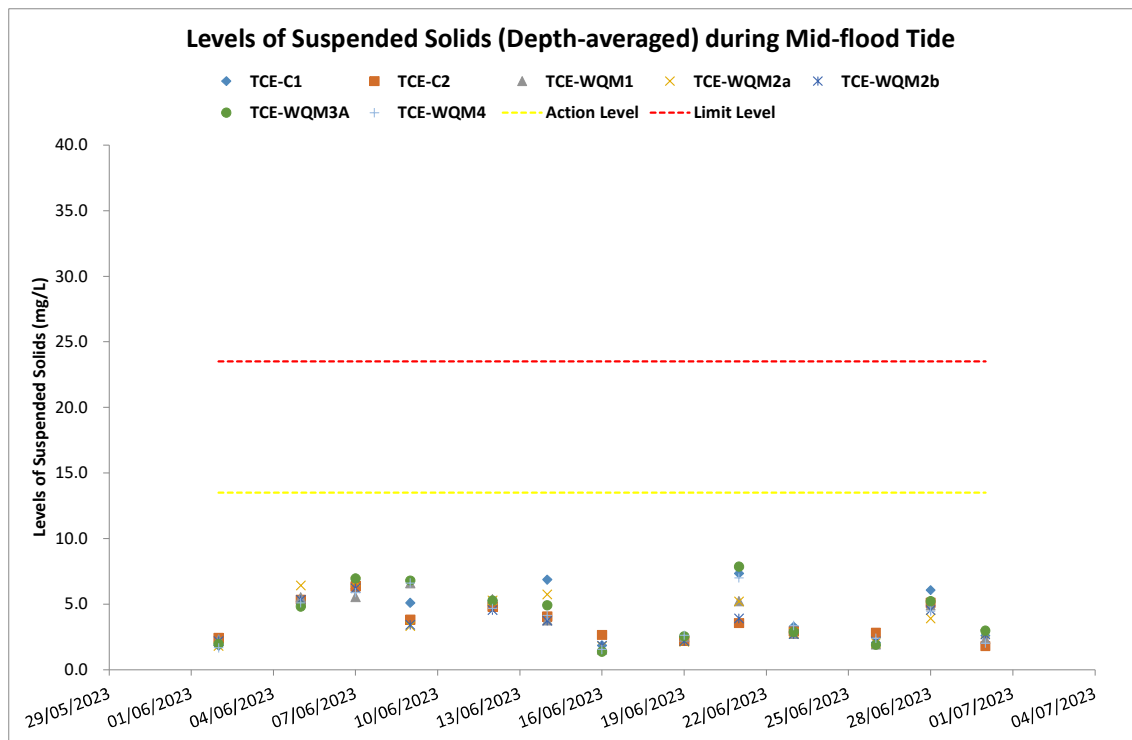


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 June 2023

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

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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)		
2023-06-02	Mid-Ebb	TCE-C1	Misty	Calm	12:34	9.6	Surface	1.0	1	29.0	8.2	22.2	5.9	86.2	1.6	2.8	5.5	2.5	2.4		
									2	28.9	8.2	22.2	5.9	86.0	1.5	3.2					
							Middle	4.8	1	27.6	8.1	24.7	5.2	75.1	2.4	2.2					
							Bottom	8.6	1	27.7	8.1	24.5	5.2	74.9	2.4	2.4					
						2	27.8	8.2	25.7	5.4	79.2	3.3	1.6	5.4							
				2	27.7	8.1	25.8	5.3	78.4	3.3	1.6										
				2	27.8	8.2	25.7	5.4	79.2	3.4	1.9										
				2	27.7	8.1	25.7	5.3	78.4	3.3	1.6										
				TCE-C2	Misty	Calm	10:54	15.0	Surface	1.0	1	28.7	8.2	23.1	6.0	87.7	1.1	1.4	5.8	1.2	1.2
									2	28.7	8.2	23.1	6.0	87.7	1.1	1.6					
		Middle	7.5						1	27.6	8.2	25.7	5.6	81.8	1.2	1.2					
		Bottom	14.0						1	27.6	8.1	25.8	5.6	81.7	1.2	1.1					
						2	27.1	8.0	28.4	5.1	75.8	1.3	0.8	5.2							
						2	27.2	8.0	28.3	5.2	76.1	1.3	0.8								
						2	27.2	8.2	22.3	5.8	84.3	1.8	2.4								
						2	28.5	8.2	22.4	5.8	84.2	1.9	2.7								
				TCE-WQM1	Misty	Calm	12:12	8.2	Middle	4.1	1	28.0	8.2	23.4	5.4	78.5	3.3	2.8	5.6	3.1	2.9
									2	28.0	8.2	23.4	5.4	78.8	3.3	3.1					
									2	27.9	8.2	24.4	5.2	76.1	4.1	3.2					
									2	28.0	8.2	24.3	5.3	76.8	4.1	3.4					
				TCE-WQM2a	Misty	Calm	11:39	6.4	Surface	1.0	1	28.1	8.2	24.6	5.4	79.0	1.1	2.2	5.4	1.7	1.9
									2	28.1	8.2	24.6	5.4	79.0	1.1	2.1					
									1	27.7	8.2	25.4	5.4	79.5	1.3	1.9					
									2	27.7	8.2	25.4	5.4	79.6	1.3	1.8					
						2	27.6	8.2	25.8	5.5	80.4	2.6	1.7	5.5							
						2	27.7	8.2	25.8	5.5	80.6	2.7	1.5								
						2	28.1	8.3	23.2	5.9	86.1	1.2	1.1								
						2	28.1	8.3	23.2	5.9	86.1	1.3	1.3								
				TCE-WQM2b	Misty	Calm	11:28	11.4	Middle	5.7	1	27.8	8.3	24.2	5.5	79.9	3.2	1.8	5.7	3.0	1.7
									2	27.8	8.3	24.2	5.5	80.0	3.2	1.6					
									2	27.9	8.2	24.2	5.7	82.7	4.6	2.2					
									2	28.0	8.2	24.1	5.7	83.1	4.6	2.1					
				TCE-WQM3A	Misty	Calm	11:50	4.0	Surface	1.0	1	28.2	8.2	23.8	5.3	77.6	1.3	2.6	5.3	1.9	1.9
									2	28.2	8.2	23.9	5.3	77.5	1.3	2.2					
									1	28.5	8.1	24.0	5.7	83.3	2.4	1.2					
									2	28.5	8.1	24.0	5.7	84.0	2.5	1.4					
				TCE-WQM4	Misty	Calm	12:00	4.4	Surface	1.0	1	28.9	8.2	22.5	5.9	86.7	2.0	2.1	5.9	2.2	2.5
									2	28.8	8.2	22.6	5.9	86.9	1.9	2.4					
									1	28.5	8.2	24.4	6.0	88.7	2.4	2.6					
									2	28.5	8.2	24.3	6.0	88.7	2.4	2.8					
		2023-06-02	Mid-Flood	TCE-C1	Misty	Calm	17:00	9.2	Surface	1.0	1	29.2	8.2	22.0	6.1	89.1	1.4	1.4	5.8	2.5	1.8
											2	29.2	8.2	22.1	6.1	89.1	1.4	1.6			
									Middle	4.6	1	28.8	8.2	22.5	5.7	83.1	2.9	1.8			
									Bottom	8.2	1	28.9	8.2	22.5	5.6	82.8	3.0	1.8			
								2	29.0	8.2	22.3	5.6	81.8	3.0	2.3	5.6					
								2	29.1	8.2	22.2	5.7	83.2	3.1	2.1						
								1	28.9	8.3	21.9	6.3	92.3	2.3	2.6						
								2	28.9	8.3	21.9	6.3	92.3	2.3	2.9						
				TCE-C2	Misty	Calm	18:21	13.4	Middle	6.7	1	28.0	8.3	22.7	6.0	87.1	3.1	2.5	6.1	3.2	2.4
									2	27.9	8.3	22.7	6.0	86.5	3.1	2.3					
									1	27.4	8.2	26.2	5.8	85.5	4.2	2.1					
									2	27.4	8.2	26.2	5.9	85.7	4.0	2.1					
				TCE-WQM1	Misty	Calm	17:18	7.8	Surface	1.0	1	28.7	8.2	22.1	6.0	88.1	3.1	1.8	5.7	4.7	2.3
									2	28.7	8.2	22.1	6.0	88.0	3.1	1.9					
									1	27.9	8.2	24.0	5.5	79.4	4.7	2.3					
									2	27.8	8.2	24.2	5.4	78.7	4.7	2.5					
						2	28.0	8.2	24.2	5.2	76.0	6.2	2.8	5.2							
						2	28.1	8.2	24.1	5.2	76.0	6.2	2.6								
						1	28.3	8.3	24.1	5.4	79.0	4.0	2.4								
						2	28.3	8.3	24.1	5.4	79.0	4.0	2.2								
				TCE-WQM2a	Misty	Calm	17:48	6.4	Middle	3.2	1	28.0	8.3	24.8	5.5	80.6	6.0	1.6	5.4	5.5	1.8
									2	28.0	8.3	24.9	5.5	80.8	6.0	1.8					
									1	27.8	8.3	25.5	5.6	82.0	6.6	1.5					
									2	27.7	8.3	25.6	5.6	82.2	6.6	1.3					
				TCE-WQM2b	Misty	Calm	18:00	10.8	Surface	1.0	1	28.7	8.3	21.2	6.4	93.3	1.5	1.8	6.4	1.7	2.2
									2	28.7	8.3	21.2	6.4	93.3	1.5	1.6					
									1	28.7	8.3	21.4	6.4	92.8	1.7	2.2					
									2	28.7	8.3	21.4	6.4	92.8	1.8	2.4					
						1	28.9	8.3	21.4	6.3	92.6	1.9	2.7	6.3							
						2	29.0	8.3	21.4	6.3	92.7	1.8	2.4								
						1	28.3	8.2	23.8	5.5	80.6	2.8	2.1								
						2	28.3	8.2	23.9	5.5	80.6	2.8	2.3								
				TCE-WQM3A	Misty	Calm	17:39	3.2	Bottom	2.2	1	28.3	8.2	24.4	5.7	84.3	3.5	1.8	5.8	3.2	2.0
									2	28.3	8.2	24.4	5.8	85.2	3.7	1.6					
									1	28.3	8.2	24.4	5.7	84.3	3.5	1.8					
									2	28.3	8.2	24.4	5.8	85.2	3.7	1.6					
				TCE-WQM4	Misty	Calm	17:29	3.8	Surface	1.0	1	29.4	8.2	22.1	6.1	90.1	1.4	1.0	6.1	1.9	1.7
									2	29.4	8.2	22.1	6.1	90.1	1.4	1.4					
									1	28.9	8.2	22.8	6.0	87.6	2.4	2.2					
									2	28.9	8.2	22.9	6.0	87.8	2.3	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)	
2023-06-05	Mid-Ebb	TCE-C1	Sunny	Rough	12:07	7.4	Surface	1.0	1	28.6	7.9	25.4	5.2	77.4	4.5	6.3	5.1	6.1	5.7	
									2	28.6	7.9	25.4	5.2	77.4	4.5	6.0				
							Middle	3.7	1	28.3	7.9	25.8	5.1	75.1	5.2	5.4				
							Bottom	6.4	1	28.2	7.9	26.2	5.0	73.8	8.4	5.4				
				2	28.2	7.9	26.2	5.0	73.8	8.5	5.2									
		TCE-C2	Sunny	Rough	14:12	12.9	Surface	1.0	1	28.7	7.8	25.2	5.4	79.7	3.3	6.3	5.1	5.9	5.6	
									2	28.7	7.8	25.2	5.4	79.6	3.3	6.0				
							Middle	6.5	1	27.7	7.9	26.7	4.9	72.7	5.8	5.7				
							Bottom	11.9	1	27.6	7.9	27.0	4.7	69.0	8.7	5.1				
				2	27.6	7.9	27.0	4.7	69.0	8.7	5.2									
		TCE-WQM1	Sunny	Moderate	12:54	9.7	Surface	1.0	1	28.8	7.8	24.7	5.6	83.8	3.1	5.2	5.5	3.7	6.0	
									2	28.8	7.8	24.7	5.7	84.2	3.1	5.5				
							Middle	4.9	1	28.8	7.8	24.7	5.3	78.1	3.4	6.2				
							Bottom	8.7	1	28.9	7.8	24.8	5.2	76.8	4.5	6.6				
				2	28.9	7.8	24.8	5.2	76.8	4.6	6.5									
		TCE-WQM2a	Sunny	Rough	13:32	6.9	Surface	1.0	1	28.7	7.8	25.2	5.3	78.7	1.9	5.8	5.2	2.6	6.2	
									2	28.7	7.8	25.2	5.3	78.7	1.9	5.8				
							Middle	3.5	1	28.1	7.9	25.7	5.1	74.8	2.7	6.0				
							Bottom	5.9	1	28.0	7.9	25.9	5.0	73.4	3.1	6.6				
				2	28.0	7.9	25.9	5.0	73.3	3.1	6.3									
		TCE-WQM2b	Sunny	Rough	13:45	9.6	Surface	1.0	1	28.7	7.8	24.8	5.4	79.9	4.7	5.4	5.1	6.8	5.7	
									2	28.7	7.8	24.8	5.4	79.9	4.7	5.2				
							Middle	4.8	1	27.9	7.8	26.0	4.7	69.7	7.5	5.6				
							Bottom	8.6	1	27.6	7.8	27.1	4.6	67.9	8.3	6.4				
			2	27.5	7.8	27.1	4.6	68.0	8.4	6.1										
	TCE-WQM3A	Sunny	Moderate	13:21	4.3	Surface	1.0	1	28.8	7.8	24.4	5.4	79.3	3.4	5.9	5.4	4.0	5.1		
								2	28.7	7.8	24.4	5.4	79.3	3.4	5.5					
						Bottom	3.3	1	28.4	7.8	24.8	5.1	74.9	4.6	4.2					
								2	28.4	7.8	24.8	5.1	74.9	4.6	4.7					
	TCE-WQM4	Sunny	Moderate	13:08	3.8	Surface	1.0	1	28.8	7.8	24.7	5.3	78.3	3.0	5.4	5.3	3.8	5.8		
								2	28.8	7.8	24.7	5.3	78.2	3.0	5.0					
						Bottom	2.8	1	28.8	7.8	24.8	5.1	76.4	4.7	6.3					
								2	28.8	7.8	24.8	5.1	76.4	4.7	6.4					
	2023-06-05	Mid-Flood	TCE-C1	Rainy	Rough	8:06	8.2	Surface	1.0	1	28.6	7.9	25.4	5.3	79.0	5.8	4.3	5.3	7.3	5.2
										2	28.6	7.9	25.4	5.3	78.9	5.8	4.8			
								Middle	4.1	1	28.4	7.9	25.6	5.2	77.9	6.7	5.5			
								Bottom	7.2	1	28.3	7.9	25.8	5.2	76.8	9.4	6.0			
					2	28.3	7.9	25.9	5.2	76.8	9.5	5.7								
			TCE-C2	Rainy	Rough	5:48	13.4	Surface	1.0	1	28.5	7.9	25.5	5.5	81.0	2.5	4.8	5.0	4.1	5.3
										2	28.5	7.9	25.5	5.5	80.9	2.5	5.1			
								Middle	6.7	1	26.9	8.0	28.9	4.6	67.9	5.3	5.3			
								Bottom	12.4	1	26.9	8.0	28.9	4.7	69.2	4.6	5.7			
					2	26.9	8.0	28.9	4.7	69.3	4.6	5.8								
			TCE-WQM1	Rainy	Moderate	7:20	10.8	Surface	1.0	1	28.8	7.8	24.7	5.2	77.0	3.2	5.8	5.2	3.0	5.5
										2	28.8	7.8	24.7	5.2	77.0	3.2	6.0			
								Middle	5.4	1	28.7	7.8	24.7	5.2	76.5	3.0	5.4			
								Bottom	9.8	1	28.4	7.8	24.6	5.1	75.0	2.8	5.0			
					2	28.4	7.8	24.6	5.1	75.0	2.8	5.2								
TCE-WQM2a			Rainy	Moderate	6:42	7.4	Surface	1.0	1	28.5	7.9	25.2	5.2	77.4	2.6	6.0	5.0	3.5	6.4	
									2	28.5	7.9	25.2	5.2	77.4	2.6	6.3				
							Middle	3.7	1	27.6	7.9	26.6	4.8	70.8	3.8	6.3				
							Bottom	6.4	1	27.6	7.9	26.6	4.8	71.0	3.8	6.5				
				2	27.2	7.9	27.9	4.7	69.2	4.0	6.5									
TCE-WQM2b			Rainy	Rough	6:28	10.2	Surface	1.0	1	28.8	7.9	24.2	5.4	80.4	3.4	4.8	5.3	5.2	5.3	
									2	28.8	7.9	24.2	5.4	80.3	3.4	5.1				
							Middle	5.1	1	28.3	8.0	25.0	5.3	77.7	4.9	5.4				
							Bottom	9.2	1	28.3	8.0	25.0	5.3	77.6	4.9	5.5				
			2	28.0	8.0	25.9	5.1	75.8	7.4	5.8										
TCE-WQM3A		Rainy	Moderate	6:55	5.3	Surface	1.0	1	28.8	7.9	24.9	5.3	79.2	1.8	4.7	5.3	2.5	4.8		
								2	28.8	7.9	24.9	5.3	79.2	1.8	4.4					
						Bottom	4.3	1	28.2	7.9	25.5	5.1	75.5	3.2	5.0					
								2	28.2	7.9	25.4	5.1	75.6	3.1	5.2					
TCE-WQM4		Rainy	Moderate	7:07	4.9	Surface	1.0	1	28.7	7.8	24.7	5.2	77.6	3.1	4.5	5.2	3.0	5.1		
								2	28.7	7.8	24.7	5.2	77.6	3.1	4.9					
						Bottom	3.9	1	28.7	7.8	24.6	5.3	78.3	3.0	5.8					
								2	28.7	7.8	24.6	5.3	78.5	3.0	5.2					

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)
2023-06-07	Mid-Ebb	TCE-C1	Misty	Moderate	13:44	9.4	Surface	1.0	1	28.5	8.0	24.7	5.1	76.0	4.3	6.2	5.1	5.6	7.1
									2	28.5	8.0	24.7	5.1	76.0	4.3	5.8			
							Middle	4.7	1	28.4	8.0	24.9	5.0	74.0	5.5	7.3			
							Bottom	8.4	1	28.4	8.0	24.9	5.0	73.9	5.6	7.0			
				2	28.4	8.0	24.9	5.1	75.2	6.8	8.2								
				2	28.4	8.0	24.9	5.1	75.4	6.8	7.8								
		TCE-C2	Misty	Moderate	15:06	13.4	Surface	1.0	1	28.5	8.1	25.4	5.2	77.2	1.3	11.4	4.8	2.0	10.2
									2	28.4	8.1	25.4	5.2	77.1	1.3	11.0			
							Middle	6.7	1	27.3	8.1	27.6	4.5	66.0	1.9	9.9			
							Bottom	12.4	1	27.3	8.1	27.8	4.5	65.9	1.9	10.3			
				2	27.2	8.1	28.0	4.5	65.9	3.0	9.6								
				2	27.2	8.1	28.0	4.5	65.9	2.8	9.2								
	TCE-WQM1	Misty	Moderate	14:02	8.0	Surface	1.0	1	28.4	8.0	24.8	5.1	74.6	4.7	9.6	5.1	5.5	8.3	
								2	28.4	8.0	24.8	5.1	74.6	4.8	9.2				
						Middle	4.0	1	28.4	8.0	24.7	5.1	75.1	5.2	8.6				
						Bottom	7.0	1	28.4	8.0	24.8	5.1	75.1	5.2	8.2				
			2	28.4	8.0	24.7	5.2	76.6	6.6	6.9									
			2	28.3	8.0	24.7	5.2	76.8	6.6	7.3									
	TCE-WQM2a	Misty	Moderate	14:32	7.8	Surface	1.0	1	28.3	8.0	25.0	5.0	73.9	2.2	10.9	4.9	3.1	12.1	
								2	28.3	8.0	25.0	5.0	73.9	2.2	10.6				
						Middle	3.9	1	28.0	8.0	26.0	4.9	72.0	3.1	12.0				
						Bottom	6.8	1	27.9	8.0	26.1	4.9	72.0	3.1	11.7				
			2	27.6	8.1	27.0	5.0	73.9	4.0	13.6									
			2	27.6	8.1	27.0	5.1	74.9	4.0	13.9									
TCE-WQM2b	Misty	Moderate	14:43	12.0	Surface	1.0	1	28.4	8.1	25.0	5.2	76.9	4.7	11.1	5.2	5.4	10.3		
							2	28.4	8.1	25.0	5.2	76.9	4.8	11.4					
					Middle	6.0	1	28.2	8.1	25.4	5.2	76.2	5.4	10.6					
					Bottom	11.0	1	28.2	8.1	25.4	5.2	76.2	5.4	10.3					
		2	27.9	8.1	26.0	5.3	77.4	6.1	9.5										
		2	27.9	8.1	25.9	5.4	79.0	6.1	9.1										
TCE-WQM3A	Misty	Moderate	14:22	3.6	Surface	1.0	1	28.4	8.0	24.8	5.1	74.7	2.8	8.4	5.1	3.0	7.7		
							2	28.4	8.0	24.8	5.1	74.7	2.8	8.7					
					Bottom	2.6	1	28.3	8.0	24.9	5.1	75.3	3.1	7.0					
							2	28.3	8.0	24.9	5.4	78.8	3.1	6.8					
TCE-WQM4	Misty	Moderate	14:13	3.6	Surface	1.0	1	28.4	8.0	24.8	5.0	73.9	2.2	6.9	5.0	2.7	7.5		
							2	28.4	8.0	24.8	5.0	73.9	2.2	7.2					
					Bottom	2.6	1	28.4	8.0	24.8	5.0	74.1	3.2	8.1					
							2	28.4	8.0	24.8	5.0	74.3	3.2	7.7					
2023-06-07	Mid-Flood	TCE-C1	Misty	Moderate	9:25	9.6	Surface	1.0	1	28.5	8.0	24.7	5.2	76.6	5.0	5.5	5.2	6.2	6.2
									2	28.5	8.0	24.7	5.2	76.6	5.1	5.2			
							Middle	4.8	1	28.4	8.0	24.8	5.2	76.5	6.4	6.5			
							Bottom	8.6	1	28.4	8.0	24.8	5.2	76.6	6.5	6.1			
				2	28.4	8.0	24.8	5.2	76.9	7.0	6.7								
				2	28.4	8.0	24.8	5.2	77.0	7.0	7.0								
		TCE-C2	Misty	Moderate	7:52	13.6	Surface	1.0	1	27.3	8.2	27.9	4.5	66.9	2.1	5.7	4.5	3.8	6.4
									2	27.3	8.2	27.9	4.5	66.8	2.1	6.1			
							Middle	6.8	1	26.9	8.2	29.0	4.4	64.3	4.2	6.4			
							Bottom	12.6	1	26.9	8.2	29.0	4.4	64.4	4.2	6.0			
				2	26.8	8.2	29.2	4.5	66.6	5.0	6.8								
				2	26.8	8.2	29.2	4.5	66.9	5.1	7.1								
	TCE-WQM1	Misty	Moderate	9:05	8.2	Surface	1.0	1	28.4	8.0	24.7	5.1	75.6	3.3	6.3	5.2	4.3	5.6	
								2	28.3	8.0	24.7	5.1	75.7	3.3	6.0				
						Middle	4.1	1	28.4	8.1	24.7	5.2	77.3	4.1	5.8				
						Bottom	7.2	1	28.4	8.1	24.7	5.3	77.3	4.1	5.4				
			2	28.3	8.1	24.7	5.7	84.1	5.3	4.8									
			2	28.3	8.1	24.7	5.8	84.7	5.3	5.0									
	TCE-WQM2a	Misty	Moderate	8:33	7.6	Surface	1.0	1	28.0	8.1	26.0	4.9	72.9	3.8	8.4	4.9	4.6	6.7	
								2	28.0	8.1	26.0	4.9	72.9	3.8	8.8				
						Middle	3.8	1	27.7	8.1	26.7	4.9	72.1	4.6	5.9				
						Bottom	6.6	1	27.8	8.1	26.7	4.9	72.4	4.7	6.2				
			2	27.5	8.1	27.1	5.3	78.3	5.3	5.3									
			2	27.5	8.1	27.1	5.4	79.4	5.2	5.7									
TCE-WQM2b	Misty	Moderate	8:21	10.8	Surface	1.0	1	28.0	8.2	25.9	5.0	74.1	3.1	5.2	4.9	4.2	6.2		
							2	27.9	8.2	26.1	5.0	74.2	3.1	5.6					
					Middle	5.4	1	27.5	8.2	27.3	4.7	69.0	4.2	6.1					
					Bottom	9.8	1	27.4	8.2	27.4	4.7	69.0	4.2	6.5					
		2	27.2	8.2	28.1	4.8	70.5	5.3	6.8										
		2	27.2	8.2	28.1	4.9	71.5	5.3	7.1										
TCE-WQM3A	Misty	Moderate	8:43	4.0	Surface	1.0	1	28.4	8.0	24.7	5.4	79.4	2.8	5.7	5.4	3.5	7.0		
							2	28.4	8.0	24.7	5.4	79.7	2.9	6.1					
					Bottom	3.0	1	28.2	8.1	24.9	5.8	85.1	4.2	8.2					
							2	28.2	8.1	24.9	5.9	86.6	4.3	7.8					
TCE-WQM4	Misty	Moderate	8:52	4.8	Surface	1.0	1	28.4	8.0	24.9	5.2	76.6	1.7	5.2	5.2	1.9	5.9		
							2	28.4	8.0	24.9	5.2	77.1	1.7	5.8					
					Bottom	3.8	1	28.4	8.0	24.9	5.7	83.4	2.3	6.4					
							2	28.4	8.0	24.9	5.7	84.3	2.2	6.1					

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)
2023-06-09	Mid-Ebb	TCE-C1	Rainy	Moderate	15:29	9.0	Surface	1.0	1	28.6	8.0	23.6	4.9	71.6	5.3	5.8	4.9	6.8	5.9
									2	28.6	8.0	23.6	4.9	71.5	5.3	5.9			
							Middle	4.5	1	28.5	8.0	23.9	4.9	71.4	6.3	5.7			
							Bottom	8.0	1	28.6	8.0	23.9	5.1	74.7	8.9	5.9			
						2	28.6	8.0	23.9	5.1	74.8	8.9	6.0	5.1					
				2	28.5	8.0	24.5	5.3	78.3	1.6	2.7								
		Middle	7.4	1	27.4	8.0	27.4	4.5	65.9	2.4	3.0								
		Bottom	13.8	1	26.8	8.0	29.2	4.3	63.6	4.9	3.1								
						2	26.8	8.0	29.2	4.3	63.7	4.9	3.6	4.3					
				2	28.8	8.0	22.7	5.2	76.0	2.0	5.1								
		Middle	4.0	1	28.3	7.9	24.6	4.5	65.9	2.9	4.7								
		Bottom	7.0	1	28.3	7.9	24.6	4.5	66.0	2.9	4.2								
					2	28.8	7.9	26.0	4.7	69.8	4.1	5.3	4.7	3.0	4.8				
			2	28.9	7.9	22.3	5.3	78.1	1.8	2.9									
	Middle	4.0	1	27.9	8.0	25.9	4.4	65.0	3.2	3.7									
	Bottom	7.0	1	27.9	8.0	25.9	4.4	65.1	3.2	2.8									
					2	27.8	8.0	26.5	4.9	72.1	4.6	4.3	4.9	3.2	3.5				
			2	27.8	8.0	26.4	5.0	73.3	4.5	4.5									
	Middle	4.0	1	27.8	8.0	26.4	5.0	73.3	4.5	4.5									
	Bottom	7.0	1	27.8	8.0	26.4	5.0	73.3	4.5	4.5									
					2	28.6	7.9	23.7	5.1	74.8	4.1	2.9	4.9	5.4	3.0				
			2	28.6	7.9	23.7	5.1	74.8	4.1	3.4									
	Middle	5.0	1	28.1	7.9	25.0	4.6	68.1	5.3	3.3									
	Bottom	9.0	1	28.1	7.9	25.0	4.6	68.1	5.3	2.7									
				2	27.4	8.0	27.5	4.4	64.8	6.9	2.6	4.4							
		2	27.4	8.0	27.5	4.4	64.8	6.7	2.8										
Middle	4.0	1	29.1	7.9	21.1	5.7	82.8	2.3	2.8										
Bottom	2.4	1	29.1	7.9	21.1	5.7	82.9	2.3	3.6										
				2	28.6	8.0	22.4	5.8	85.0	2.4	4.6	5.7	2.4	4.1					
		2	28.6	8.0	22.4	5.9	85.7	2.4	5.4										
Middle	4.0	1	28.6	8.0	23.7	5.1	74.9	3.9	5.8										
Bottom	3.0	1	28.5	7.9	24.0	5.1	75.2	4.3	5.7										
				2	28.5	7.9	24.0	5.1	75.3	4.3	6.6	5.1	4.1	5.8					
		2	28.7	8.0	23.5	5.0	73.6	5.3	4.4										
Middle	4.0	1	28.5	8.1	23.8	4.9	72.5	6.0	4.7										
Bottom	7.0	1	28.1	8.1	24.3	5.4	79.5	7.6	5.8										
				2	28.1	8.1	24.4	5.5	80.4	7.6	5.5	5.5	5.4	3.8					
		2	28.4	7.9	23.5	5.3	78.3	4.2	4.0										
Middle	6.6	1	27.7	7.9	26.8	4.4	65.4	5.0	3.8										
Bottom	12.2	1	27.7	7.9	26.8	4.4	65.4	5.1	3.4										
				2	27.2	7.8	28.7	4.3	63.9	6.6	3.6	4.3							
		2	27.2	7.8	28.6	4.3	64.1	6.6	4.5										
Middle	3.7	1	28.5	8.0	23.3	5.2	76.9	1.5	8.6										
Bottom	6.4	1	28.4	8.0	23.7	5.0	73.2	3.6	6.0										
				2	28.4	8.0	24.0	5.3	78.1	4.9	5.8	5.1	3.3	6.6					
		2	28.4	8.0	23.7	5.0	73.2	3.6	6.0										
Middle	3.7	1	28.4	8.0	23.7	5.0	73.2	3.5	6.6										
Bottom	6.4	1	28.4	8.0	24.0	5.3	78.1	4.9	5.8										
				2	28.4	8.0	23.9	5.4	79.6	4.9	5.4	5.4							
		2	29.0	7.9	22.1	5.4	79.2	1.4	2.8										
Middle	4.2	1	28.6	7.9	23.0	5.1	75.1	2.2	3.8										
Bottom	7.4	1	28.6	7.9	23.0	5.1	75.0	2.2	3.4										
				2	28.3	8.0	24.3	5.0	73.4	4.8	3.8	5.3	2.8	3.3					
		2	28.3	8.0	24.4	5.0	73.6	4.8	3.0										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	3.0										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	5.3	6.4	3.4					
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	5.4	3.0	6.8					
		2	28.6	8.0	22.3	6.0	87.8	3.1	6.6										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	6.0							
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	4.9	3.3	6.6					
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	4.9							
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	4.9							
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										
				2	28.3	8.1	24.2	5.3	77.5	7.7	3.8	4.9							
		2	28.8	8.0	22.1	5.4	79.2	2.9	7.2										
Middle	6.1	1	28.4	8.0	23.8	5.1	74.1	6.9	2.6										
Bottom	11.2	1	28.3	8.1	24.2	5.2	77.0	7.7	3.3										

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)	
2023-06-12	Mid-Ebb	TCE-C1	Fine	Moderate	9:22	8.2	Surface	1.0	1	28.5	8.0	24.0	6.9	102.2	3.9	5.0	6.8	4.6	4.9	
									2	28.5	8.0	24.0	6.9	102.2	3.9	4.7				
							Middle	4.1	1	28.4	8.0	24.0	6.7	98.0	4.3	5.0				
							Bottom	7.2	1	27.8	8.0	24.8	5.7	83.7	5.7	4.7				
				2	27.8	8.0	24.9	5.7	83.9	5.7	4.5									
		TCE-C2	Fine	Moderate	7:23	13.5	Surface	1.0	1	28.4	7.9	24.2	6.3	91.9	3.1	4.0	6.0	4.0	4.8	
									2	28.3	7.9	24.2	6.3	91.8	3.2	4.3				
							Middle	6.8	1	27.9	7.9	24.5	5.8	85.3	4.3	5.5				
							Bottom	12.5	1	26.4	7.8	24.5	5.8	85.2	4.3	5.2				
				2	26.4	7.8	28.4	4.6	66.9	4.5	4.8									
		TCE-WQM1	Fine	Calm	8:32	9.4	Surface	1.0	1	28.9	8.1	23.5	7.9	117.1	2.6	4.6	7.7	3.9	4.7	
									2	28.9	8.1	23.5	7.9	117.0	2.7	4.3				
							Middle	4.7	1	28.5	8.0	23.9	7.5	110.1	4.1	5.0				
							Bottom	8.4	1	28.2	8.0	24.2	6.4	93.6	4.8	4.3				
				2	28.2	8.0	24.2	6.4	93.5	4.8	4.7									
		TCE-WQM2a	Fine	Moderate	7:57	7.2	Surface	1.0	1	28.6	8.0	23.8	6.8	99.5	2.2	4.4	6.0	4.8	4.9	
									2	28.6	8.0	23.8	6.8	99.5	2.2	4.6				
							Middle	3.6	1	27.6	7.9	25.2	5.3	76.9	4.2	4.8				
							Bottom	6.2	1	27.0	7.9	25.2	5.3	77.0	4.3	4.9				
				2	27.0	7.9	27.1	4.8	70.7	7.9	5.2									
		TCE-WQM2b	Fine	Moderate	7:44	10.1	Surface	1.0	1	28.4	7.9	24.2	6.3	92.6	2.9	5.0	6.1	3.5	5.5	
									2	28.4	7.9	24.2	6.3	92.6	2.9	5.2				
							Middle	5.1	1	28.0	7.9	24.5	6.0	87.8	3.6	5.5				
							Bottom	9.1	1	27.9	7.9	24.6	5.9	86.8	4.0	5.7				
			2	27.9	7.9	24.6	5.9	86.8	4.0	6.0										
	TCE-WQM3A	Fine	Calm	8:09	5.3	Surface	1.0	1	28.6	8.0	23.8	7.0	103.8	2.0	5.4	7.0	2.2	4.9		
								2	28.6	8.0	23.8	7.0	103.7	2.0	5.1					
						Bottom	4.3	1	28.3	8.0	23.8	6.9	101.2	2.4	4.6					
								2	28.3	8.0	23.8	6.9	101.2	2.4	4.3					
	TCE-WQM4	Fine	Calm	8:19	4.4	Surface	1.0	1	28.8	7.9	24.0	6.4	95.3	1.9	5.2	6.4	2.8	5.1		
								2	28.8	7.9	24.0	6.4	95.3	1.9	5.5					
						Bottom	3.4	1	28.1	7.9	24.3	5.8	84.3	3.7	5.0					
								2	28.1	7.9	24.3	5.8	84.2	3.7	4.7					
	2023-06-12	Mid-Flood	TCE-C1	Sunny	Rough	12:33	7.9	Surface	1.0	1	29.0	8.0	23.6	7.7	114.4	2.6	5.8	7.4	3.2	5.3
										2	29.0	8.0	23.6	7.7	114.3	2.6	5.6			
								Middle	4.0	1	28.8	8.0	23.9	7.1	104.8	2.9	5.4			
								Bottom	6.9	1	28.1	8.0	24.3	5.9	85.7	4.0	5.0			
					2	28.1	8.0	24.3	5.9	85.8	4.0	4.6								
			TCE-C2	Sunny	Moderate	14:45	13.3	Surface	1.0	1	28.3	8.0	24.2	6.8	100.1	4.1	4.5	6.3	4.1	4.8
										2	28.3	8.0	24.2	6.8	100.1	4.1	4.3			
								Middle	6.7	1	27.7	8.0	25.2	5.8	84.6	4.4	4.7			
								Bottom	12.3	1	27.1	8.0	26.5	5.2	75.9	3.9	5.4			
					2	27.1	8.0	26.5	5.2	75.8	3.8	5.0								
			TCE-WQM1	Sunny	Moderate	13:24	9.1	Surface	1.0	1	28.8	8.0	23.9	7.4	109.8	5.3	4.9	6.9	5.3	5.4
										2	28.7	8.0	23.9	7.4	109.7	5.4	4.6			
								Middle	4.6	1	28.1	8.0	24.4	6.4	94.4	4.7	5.2			
								Bottom	8.1	1	27.7	7.9	25.1	5.2	76.3	5.6	5.8			
					2	27.6	7.9	25.1	5.2	76.1	5.6	6.2								
TCE-WQM2a			Sunny	Moderate	14:04	6.9	Surface	1.0	1	28.8	8.0	24.0	6.8	100.8	2.2	5.7	6.5	3.4	5.3	
									2	28.8	8.0	24.0	6.8	100.8	2.2	6.1				
							Middle	3.5	1	27.7	7.9	25.0	6.3	92.7	4.0	5.4				
							Bottom	5.9	1	27.5	7.9	25.7	5.1	74.8	4.1	4.9				
				2	27.5	7.9	25.7	5.1	74.8	4.1	4.4									
TCE-WQM2b			Sunny	Moderate	14:18	9.6	Surface	1.0	1	28.1	8.0	24.4	6.5	95.1	6.1	3.8	6.3	6.7	4.5	
									2	28.1	8.0	24.4	6.5	95.1	6.1	4.2				
							Middle	4.8	1	27.4	7.9	25.7	6.1	89.7	7.4	4.4				
							Bottom	8.6	1	27.0	7.9	26.9	5.6	81.5	6.5	4.9				
			2	27.1	7.9	26.7	5.6	81.5	6.6	5.2										
TCE-WQM3A		Sunny	Moderate	13:50	4.8	Surface	1.0	1	29.0	8.0	23.9	6.9	101.7	2.8	5.8	6.9	3.3	5.3		
								2	29.0	8.0	23.9	6.9	101.7	2.9	5.5					
						Bottom	3.8	1	28.0	8.0	24.4	6.4	93.1	3.7	5.0					
								2	28.0	8.0	24.4	6.4	93.1	3.8	4.8					
TCE-WQM4		Sunny	Moderate	13:36	3.9	Surface	1.0	1	28.9	8.1	23.7	7.9	117.2	2.4	4.3	7.9	3.4	4.7		
								2	28.9	8.1	23.7	7.9	117.2	2.4	4.5					
						Bottom	2.9	1	28.0	8.0	24.5	6.1	89.0	4.4	5.1					
								2	28.0	8.0	24.5	6.1	88.9	4.4	4.8					

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)
2023-06-14	Mid-Ebb	TCE-C1	Sunny	Moderate	11:53	8.6	Surface	1.0	1	29.2	8.3	15.8	8.5	121.2	2.7	3.6	6.8	6.4	6.1
									2	29.2	8.3	15.9	8.4	120.3	2.8	3.5			
							Middle	4.3	1	28.4	8.0	25.0	5.2	76.4	5.8	7.7			
							Bottom	7.6	1	28.3	8.0	25.1	5.1	75.9	6.2	7.6			
				2	28.3	8.0	25.6	5.0	74.1	10.3	7.3	5.0							
				2	28.3	8.0	25.6	5.0	74.2	11.0	6.6								
		TCE-C2	Sunny	Moderate	9:53	14.7	Surface	1.0	1	28.9	8.2	22.0	7.2	105.3	2.2	3.6	6.9	3.1	3.3
									2	28.9	8.2	22.1	7.2	105.2	2.5	2.8			
							Middle	7.4	1	28.5	8.1	23.0	6.6	96.6	4.9	3.5			
							Bottom	13.7	1	28.4	8.1	23.1	6.6	96.3	4.6	2.9			
				2	27.2	8.0	28.0	5.4	78.8	2.1	2.6	5.4							
				2	27.2	8.0	28.0	5.4	78.9	2.0	4.2								
	TCE-WQM1	Sunny	Moderate	11:07	7.8	Surface	1.0	1	29.2	8.2	21.0	6.6	96.8	5.3	9.5	6.6	6.0	6.4	
								2	29.2	8.2	21.0	6.6	96.7	5.3	9.2				
						Middle	3.9	1	29.2	8.1	23.2	6.6	97.2	5.6	6.4				
						Bottom	6.8	1	29.2	8.1	23.2	6.6	97.4	5.6	5.7				
			2	29.2	8.1	23.4	6.5	97.1	7.0	3.7	6.5								
			2	29.2	8.1	23.4	6.5	96.9	7.4	3.6									
	TCE-WQM2a	Sunny	Moderate	10:34	6.2	Surface	1.0	1	29.0	8.2	21.6	7.3	106.2	2.7	2.6	6.8	4.5	3.3	
								2	29.0	8.2	21.6	7.3	106.2	2.7	3.2				
						Middle	3.1	1	28.8	8.0	23.7	6.4	94.6	4.3	3.2				
						Bottom	5.2	1	28.8	8.0	23.7	6.4	94.8	4.4	2.8				
			2	28.6	8.0	24.1	5.9	87.2	6.2	4.0	5.9								
			2	28.6	8.0	24.1	5.9	87.0	6.8	4.1									
TCE-WQM2b	Sunny	Moderate	10:24	10.8	Surface	1.0	1	29.1	8.0	21.1	6.9	100.8	3.2	3.6	6.6	5.5	3.4		
							2	29.1	8.0	21.1	6.9	100.8	3.2	2.9					
					Middle	5.4	1	29.0	8.0	22.1	6.3	93.0	5.4	3.4					
					Bottom	9.8	1	29.0	8.0	22.1	6.1	89.9	5.8	3.4					
		2	28.9	7.9	22.3	6.0	88.4	7.5	3.8	6.0									
		2	28.9	7.9	22.4	6.0	88.3	7.6	3.4										
TCE-WQM3A	Sunny	Moderate	10:45	5.0	Surface	1.0	1	29.0	8.0	23.2	5.7	84.0	5.3	4.4	5.7	7.3	3.7		
							2	29.0	8.0	23.2	5.7	83.9	5.2	3.7					
					Bottom	4.0	1	28.6	7.8	24.4	4.2	61.7	9.3	3.6					
		2	28.6	7.8	24.4	4.2	61.8	9.4	3.1	4.2									
TCE-WQM4	Sunny	Moderate	10:55	3.6	Surface	1.0	1	29.3	8.2	20.9	8.4	122.8	2.4	8.7	8.4	2.1	8.6		
							2	29.3	8.2	20.9	8.3	122.2	2.3	9.4					
					Bottom	2.6	1	29.2	8.2	22.2	7.7	113.8	1.9	7.4					
		2	29.2	8.2	22.2	7.7	113.5	1.9	9.0	7.7									
2023-06-14	Mid-Flood	TCE-C1	Sunny	Moderate	15:05	8.8	Surface	1.0	1	29.3	8.3	16.7	8.1	115.4	2.7	7.1	6.8	5.8	6.9
									2	29.2	8.3	16.7	8.0	115.0	2.8	7.6			
							Middle	4.4	1	28.5	8.1	24.7	5.5	81.7	4.0	6.9			
									2	28.5	8.1	24.8	5.5	81.5	4.0	6.6			
							Bottom	7.8	1	28.5	8.1	24.9	5.1	75.5	10.6	6.2			
									2	28.5	8.1	24.9	5.1	75.6	10.5	6.8			
		TCE-C2	Sunny	Moderate	17:15	13.8	Surface	1.0	1	29.6	8.3	20.2	8.3	122.2	2.1	3.9	7.1	3.0	4.1
									2	29.6	8.3	20.2	8.3	122.1	2.1	4.6			
							Middle	6.9	1	28.6	8.1	23.5	5.8	85.4	3.4	3.9			
									2	28.6	8.1	23.5	5.8	85.4	3.4	3.7			
							Bottom	12.8	1	27.5	8.1	27.3	5.2	76.8	3.6	4.2			
									2	27.6	8.1	27.3	5.2	77.0	3.6	4.1			
		TCE-WQM1	Sunny	Moderate	15:55	7.6	Surface	1.0	1	29.5	8.3	19.8	7.9	116.1	4.5	4.2	7.1	6.6	3.8
									2	29.5	8.3	19.7	7.9	115.6	4.7	4.4			
							Middle	3.8	1	29.2	8.1	23.1	6.3	93.9	6.5	3.8			
									2	29.2	8.1	23.2	6.3	93.9	6.6	3.6			
							Bottom	6.6	1	29.1	8.1	23.6	6.1	91.0	8.8	3.2			
									2	29.1	8.1	23.6	6.4	94.9	8.5	3.4			
		TCE-WQM2a	Sunny	Moderate	16:29	6.9	Surface	1.0	1	29.5	8.3	22.0	8.3	122.9	2.8	5.7	7.7	3.3	5.8
									2	29.5	8.3	22.0	8.3	122.9	2.8	5.5			
							Middle	3.5	1	29.1	8.2	22.7	7.1	104.4	3.5	5.4			
									2	29.1	8.2	22.7	7.1	104.5	3.5	5.8			
							Bottom	5.9	1	29.0	8.2	22.8	6.9	101.8	3.7	6.4			
									2	29.0	8.2	21.1	6.9	101.6	3.7	5.7			
	TCE-WQM2b	Sunny	Moderate	16:41	11.5	Surface	1.0	1	29.3	8.3	19.5	7.5	108.5	4.3	3.8	6.9	8.8	3.7	
								2	29.3	8.2	19.5	7.4	108.2	4.5	3.6				
						Middle	5.8	1	28.4	8.2	21.8	6.4	92.2	10.5	3.1				
								2	28.3	8.2	21.7	6.3	91.1	10.4	4.2				
						Bottom	10.5	1	28.2	8.1	26.0	5.0	74.3	11.7	3.9				
								2	28.3	8.1	26.0	5.0	74.6	11.4	3.8				
	TCE-WQM3A	Sunny	Moderate	16:19	4.5	Surface	1.0	1	29.3	8.3	21.1	7.9	115.4	3.3	4.6	7.7	4.6	4.9	
								2	29.3	8.3	21.1	7.6	111.8	3.4	4.4				
						Bottom	3.5	1	28.6	7.9	24.5	4.0	59.0	5.8	5.6				
			2	28.6	7.9	24.5	4.0	59.2	6.0	5.1	4.0								
	TCE-WQM4	Sunny	Moderate	16:08	3.3	Surface	1.0	1	29.4	8.3	21.3	8.4	124.2	5.4	4.5	8.4	5.0	4.1	
								2	29.4	8.3	21.3	8.5	124.3	5.5	4.0				
						Bottom	2.3	1	29.2	8.3	21.7	8.1	118.9	4.7	3.6				
			2	29.2	8.3	21.7	8.1	119.2	4.5	4.4	8.1								

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)
2023-06-16	Mid-Ebb	TCE-C1	Rainy	Calm	12:14	7.8	Surface	1.0	1	27.5	7.9	17.5	4.9	68.1	3.1	1.1	4.8	4.3	1.5
									2	27.6	7.9	17.5	4.9	68.0	3.1	1.3			
							Middle	3.9	1	28.0	7.9	20.5	4.7	66.7	4.4	1.6			
							Bottom	6.8	1	27.9	7.9	24.9	4.0	58.4	5.5	1.9			
				2	27.9	7.9	24.8	4.0	58.6	5.4	1.7								
		TCE-C2	Rainy	Calm	10:45	13.2	Surface	1.0	1	28.3	8.0	20.8	5.3	76.5	2.1	1.8	5.2	3.5	1.5
									2	28.3	8.0	20.8	5.3	76.4	2.1	1.6			
							Middle	6.6	1	28.3	7.9	21.4	5.1	73.5	3.7	1.5			
							Bottom	12.2	1	28.3	7.9	21.4	5.1	73.4	3.7	1.4			
				2	28.4	7.8	22.0	4.7	67.8	4.6	1.3								
		TCE-WQM1	Rainy	Calm	11:52	7.4	Surface	1.0	1	27.9	7.9	21.0	4.5	64.5	2.2	1.2	4.5	3.3	1.6
									2	27.9	7.9	21.1	4.5	64.4	2.2	1.5			
	Middle						3.7	1	27.9	7.9	21.0	4.5	64.5	3.0	1.7				
	Bottom						6.4	1	27.6	7.9	25.3	3.8	55.4	4.6	1.8				
			2	27.6	7.9	25.3	3.8	55.6	4.6	1.9									
	TCE-WQM2a	Rainy	Calm	11:19	8.4	Surface	1.0	1	28.3	7.9	21.1	5.3	75.8	3.2	1.4	5.0	3.7	1.8	
								2	28.3	7.9	21.1	5.3	75.8	3.2	1.5				
						Middle	4.2	1	28.3	7.9	22.5	4.7	68.3	3.9	1.8				
						Bottom	7.4	1	27.9	7.9	24.8	4.6	67.6	4.1	2.2				
			2	27.9	7.9	24.7	4.8	69.7	4.1	2.4									
	TCE-WQM2b	Rainy	Calm	11:07	12.2	Surface	1.0	1	28.3	8.0	21.1	5.3	76.2	3.0	1.6	5.0	5.1	2.1	
								2	28.3	8.0	21.1	5.3	76.2	3.0	1.9				
						Middle	6.1	1	28.4	8.0	22.0	4.7	68.2	5.5	2.2				
						Bottom	11.2	1	28.3	8.0	22.6	4.8	69.8	6.8	2.2				
		2	28.2	8.0	22.6	4.9	70.6	6.7	2.4										
TCE-WQM3A	Rainy	Calm	11:30	4.0	Surface	1.0	1	28.1	8.0	19.0	5.7	81.0	3.5	2.6	5.7	3.6	2.0		
							2	28.1	8.0	19.0	5.7	80.9	3.5	2.4					
					Bottom	3.0	1	28.3	7.9	22.0	5.0	72.1	3.7	1.6					
		2	28.3	7.9	22.0	5.0	72.4	3.8	1.3										
TCE-WQM4	Rainy	Calm	11:40	4.0	Surface	1.0	1	28.2	7.9	21.9	4.9	70.2	3.8	1.9	4.8	4.4	1.7		
							2	28.2	7.9	21.9	4.8	70.1	3.8	1.7					
					Bottom	3.0	1	28.0	7.9	23.3	4.4	64.4	5.0	1.5					
		2	28.0	7.9	23.4	4.4	64.0	5.0	1.6										
2023-06-16	Mid-Flood	TCE-C1	Rainy	Calm	17:29	9.0	Surface	1.0	1	27.9	7.9	23.5	4.7	67.6	3.0	2.5	4.5	4.4	1.9
									2	27.9	7.9	23.6	4.6	67.5	3.0	2.2			
							Middle	4.5	1	27.8	7.9	24.3	4.3	63.2	4.1	1.8			
							Bottom	8.0	1	27.2	7.9	26.6	3.9	56.8	6.0	1.5			
				2	27.2	7.9	26.6	3.9	57.0	6.0	1.4								
		TCE-C2	Rainy	Calm	18:51	14.6	Surface	1.0	1	28.2	8.0	22.2	5.3	76.1	3.5	2.4	5.0	4.3	2.7
									2	28.2	7.9	22.2	5.2	75.9	3.5	2.2			
							Middle	7.3	1	27.9	7.9	23.7	4.8	70.2	4.1	2.5			
							Bottom	13.6	1	27.7	7.9	24.8	4.9	70.8	5.5	2.8			
				2	27.7	7.9	24.8	4.9	71.1	5.3	3.2								
		TCE-WQM1	Rainy	Calm	17:47	8.0	Surface	1.0	1	27.9	8.0	23.7	4.6	66.9	2.2	1.4	4.5	3.5	1.6
									2	27.9	8.0	23.7	4.6	66.6	2.3	1.1			
	Middle						4.0	1	27.9	7.9	24.2	4.4	64.1	3.7	1.5				
	Bottom						7.0	1	27.5	7.9	26.1	4.1	60.4	4.6	1.8				
			2	27.5	7.9	26.1	4.1	60.7	4.6	1.8									
	TCE-WQM2a	Rainy	Calm	18:17	7.8	Surface	1.0	1	28.3	8.0	20.7	5.4	78.0	3.0	1.4	5.2	4.8	1.8	
								2	28.3	8.0	20.7	5.4	78.0	3.0	1.6				
						Middle	3.9	1	28.2	8.0	22.4	4.9	71.1	5.2	1.8				
						Bottom	6.8	1	28.2	8.0	22.4	4.9	71.3	5.3	1.7				
			2	28.2	8.0	22.8	4.9	72.0	6.0	2.2									
	TCE-WQM2b	Rainy	Calm	18:29	10.0	Surface	1.0	1	28.3	8.1	20.4	5.5	79.0	5.0	2.2	5.3	6.4	1.8	
								2	28.3	8.1	20.4	5.5	78.9	5.0	2.1				
						Middle	5.0	1	28.3	8.0	21.6	5.0	73.0	6.5	1.8				
						Bottom	9.0	1	28.3	8.0	21.6	5.0	72.8	6.4	1.9				
		2	28.1	8.0	23.5	4.6	66.6	7.9	1.4										
TCE-WQM3A	Rainy	Calm	18:08	3.4	Surface	1.0	1	28.3	8.0	21.6	5.2	74.8	4.2	1.6	5.2	4.9	1.4		
							2	28.3	8.0	21.6	5.2	74.6	4.2	1.5					
					Bottom	2.4	1	28.0	8.0	23.6	5.1	74.4	5.6	1.3					
		2	28.0	8.0	23.7	5.2	76.2	5.6	1.1										
TCE-WQM4	Rainy	Calm	17:58	3.8	Surface	1.0	1	27.9	8.0	24.1	4.7	67.7	1.9	1.3	4.7	2.3	1.6		
							2	27.9	8.0	24.1	4.7	67.7	2.0	1.5					
					Bottom	2.8	1	27.9	8.0	24.1	4.6	66.7	2.7	1.6					
		2	27.9	8.0	24.1	4.6	66.9	2.6	1.8										

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)
2023-06-19	Mid-Ebb	TCE-C1	Cloudy	Rough	12:21	8.9	Surface	1.0	1	28.1	7.9	21.9	4.8	70.0	5.4	3.6	4.8	6.5	3.2
									2	28.1	7.9	21.9	4.8	69.9	5.5	3.7			
							Middle	4.5	1	28.0	7.9	22.2	4.8	68.8	5.7	3.3			
							Bottom	7.9	1	27.7	7.9	23.1	4.4	63.8	8.2	2.6			
				2	27.7	7.9	23.1	4.4	63.8	8.2	2.8								
				2	28.3	8.0	21.9	5.0	71.8	2.2	2.6								
				2	28.3	8.0	21.9	5.0	71.8	2.2	2.3								
				1	27.5	8.0	22.9	4.5	65.1	2.5	2.8								
				2	27.5	8.0	22.9	4.5	65.1	2.6	3.1								
				1	26.6	8.0	25.9	4.3	61.3	3.6	3.4								
				2	26.6	8.0	25.9	4.3	61.3	3.7	3.6								
				1	28.4	8.0	21.7	4.9	71.5	1.7	1.6								
				2	28.4	8.0	21.7	4.9	71.4	1.7	1.8								
				1	28.4	8.0	21.7	4.9	71.1	1.9	2.2								
				2	28.3	8.0	21.7	4.9	71.1	1.9	2.2								
				1	27.9	7.9	22.2	4.4	62.9	6.3	2.8								
				2	27.9	7.9	22.2	4.4	63.0	6.4	3.1								
				1	27.8	8.0	22.7	4.6	65.8	2.6	2.3								
				2	27.8	8.0	22.7	4.6	65.8	2.6	2.7								
				1	27.4	8.0	23.1	4.4	63.3	3.8	2.9								
				2	27.3	8.0	23.1	4.4	63.2	3.8	3.2								
				1	26.5	8.0	26.4	3.9	55.9	5.5	4.3								
				2	26.5	8.0	26.4	3.9	55.9	5.5	3.8								
				1	28.0	8.0	22.5	4.8	69.8	2.6	2.2								
			2	27.9	8.0	22.6	4.8	69.6	2.7	2.5									
			1	27.7	8.0	23.1	4.4	64.1	2.8	2.7									
			2	27.7	8.0	23.1	4.4	64.2	2.8	2.7									
			1	26.9	8.0	25.1	4.3	61.4	2.1	3.0									
			2	26.9	8.0	25.2	4.3	61.4	2.1	3.2									
			1	27.7	8.0	22.8	4.5	65.0	2.7	2.8									
			2	27.7	8.0	22.8	4.5	65.0	2.7	2.7									
			1	27.7	8.0	22.9	4.4	63.1	3.4	3.2									
			2	27.7	8.0	22.9	4.4	63.1	3.5	3.6									
			1	28.4	8.0	21.6	5.0	71.8	2.0	3.9									
			2	28.4	8.0	21.6	5.0	71.8	2.0	3.5									
			1	28.2	8.0	22.0	4.8	69.8	2.7	2.8									
			2	28.2	8.0	22.0	4.8	69.8	2.7	2.4									
			1	27.9	7.9	22.0	4.8	69.0	3.7	3.0									
			2	27.9	7.9	22.0	4.8	69.0	3.7	3.3									
			1	27.8	7.9	22.0	4.7	68.0	4.7	2.2									
			2	27.8	7.9	22.0	4.7	68.0	4.7	2.5									
			1	27.7	7.9	22.2	4.7	66.9	9.3	1.9									
			2	27.7	7.9	22.2	4.7	66.9	9.3	1.7									
			1	27.4	8.0	23.5	4.6	66.0	2.0	1.6									
			2	27.4	8.0	23.5	4.6	66.0	2.0	1.9									
			1	26.4	8.0	26.3	4.0	58.0	2.0	2.1									
			2	26.4	8.0	26.3	4.0	58.0	2.0	2.3									
			1	25.5	8.1	29.2	3.4	48.4	4.0	2.8									
		2	25.5	8.1	29.2	3.4	48.4	4.0	2.5										
		1	27.7	7.9	22.4	4.4	62.9	3.2	3.1										
		2	27.7	7.9	22.4	4.4	62.8	3.1	2.8										
		1	27.0	8.0	24.0	4.2	60.4	2.3	2.5										
		2	27.0	8.0	24.0	4.2	60.4	2.3	2.3										
		1	26.4	8.0	26.9	3.8	54.3	3.7	2.0										
		2	26.3	8.0	26.9	3.8	54.3	3.7	2.2										
		1	27.6	7.9	22.6	4.4	62.5	2.7	1.6										
		2	27.6	7.9	22.6	4.4	62.5	2.7	1.5										
		1	27.2	8.0	23.9	4.1	59.0	3.5	2.2										
		2	27.2	8.0	23.9	4.1	58.9	3.5	2.5										
		1	27.0	8.0	24.6	4.0	58.2	4.5	2.4										
		2	27.0	8.0	24.6	4.0	58.2	4.5	2.5										
		1	27.3	7.9	23.5	4.6	65.9	2.2	2.7										
		2	27.3	7.9	23.5	4.6	65.9	2.3	2.5										
		1	26.7	8.0	25.5	4.2	61.0	5.4	2.2										
		2	26.7	8.0	25.5	4.2	61.0	5.5	2.2										
		1	26.3	8.0	26.7	4.1	58.5	6.2	1.6										
		2	26.3	8.0	26.7	4.1	58.6	6.2	1.9										
		1	28.0	7.9	21.8	4.6	66.1	2.1	2.2										
		2	28.0	7.9	21.9	4.6	66.0	2.1	2.4										
		1	27.3	7.9	23.7	4.1	59.4	3.3	3.0										
		2	27.3	7.9	23.7	4.1	59.5	3.3	2.6										
		1	27.6	7.9	22.5	4.4	63.7	2.4	2.7										
		2	27.6	7.9	22.5	4.4	63.8	2.5	3.1										
		1	27.1	8.0	24.1	4.4	63.6	3.0	2.5										
		2	27.1	8.0	24.1	4.4	63.7	3.0	2.2										
2023-06-19	Mid-Flood	TCE-C1	Rainy	Rough	7:26	8.6	Surface	1.0	1	27.9	7.9	22.0	4.8	69.0	3.7	3.0	4.8	5.9	2.4
									2	27.9	7.9	22.0	4.8	69.0	3.7	3.3			
							Middle	4.3	1	27.8	7.9	22.0	4.7	68.0	4.7	2.2			
							Bottom	7.6	1	27.7	7.9	22.2	4.7	66.9	9.3	1.9			
				2	27.7	7.9	22.2	4.7	66.9	9.3	1.7								
				1	27.4	8.0	23.5	4.6	66.0	2.0	1.6								
				2	27.4	8.0	23.5	4.6	66.0	2.0	1.9								
				1	26.4	8.0	26.3	4.0	58.0	2.0	2.1								
				2	26.4	8.0	26.3	4.0	58.0	2.0	2.3								
				1	25.5	8.1	29.2	3.4	48.4	4.0	2.8								
				2	25.5	8.1	29.2	3.4	48.4	4.0	2.5								
				1	27.7	7.9	22.4	4.4	62.9	3.2	3.1								
				2	27.7	7.9	22.4	4.4	62.8	3.1	2.8								
				1	27.0	8.0	24.0	4.2	60.4	2.3	2.5								
				2	27.0	8.0	24.0	4.2	60.4	2.3	2.3								
				1	26.4	8.0	26.9	3.8	54.3	3.7	2.0								
				2	26.3	8.0	26.9	3.8	54.3	3.7	2.2								
				1	27.6	7.9	22.6	4.4	62.5	2.7	1.6								
				2	27.6	7.9	22.6	4.4	62.5	2.7	1.5								
				1	27.2	8.0	23.9	4.1	59.0	3.5	2.2								
				2	27.2	8.0	23.9	4.1	58.9	3.5	2.5								
				1	27.0	8.0	24.6	4.0	58.2	4.5	2.4								
				2	27.0	8.0	24.6	4.0	58.2	4.5	2.5								
				1	27.3	7.9	23.5	4.6	65.9	2.2	2.7								
			2	27.3	7.9	23.5	4.6	65.9	2.3	2.5									
			1	26.7	8.0	25.5	4.2	61.0	5.4	2.2									
			2	26.7	8.0	25.5	4.2	61.0	5.5	2.2									
			1	26.3	8.0	26.7	4.1	58.5	6.2	1.6									
			2	26.3	8.0	26.7	4.1	58.6	6.2	1.9									
			1	28.0	7.9	21.8	4.6	66.1	2.1	2.2									
			2	28.0	7.9	21.9	4.6	66.0	2.1	2.4									
			1	27.3	7.9	23.7	4.1	59.4	3.3	3.0									
			2	27.3	7.9	23.7	4.1	59.5	3.3	2.6									
			1	27.6	7.9	22.5	4.4	63.7	2.4	2.7									
			2	27.6	7.9	22.5	4.4	63.8	2.5	3.1									
			1	27.1	8.0	24.1	4.4	63.6	3.0	2.5									
			2	27.1	8.0	24.1	4.4	63.7	3.0	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)
2023-06-21	Mid-Ebb	TCE-C1	Sunny	Moderate	13:33	8.7	Surface	1.0	1	28.8	8.0	20.6	5.8	84.8	4.1	2.4	4.6	7.8	4.7
									2	28.8	8.0	20.6	5.8	84.7	4.1	2.7			
							Middle	4.4	1	27.0	8.0	27.4	3.4	50.0	9.1	4.0			
							Bottom	7.7	1	26.9	8.0	27.4	3.4	50.0	9.1	4.5			
						2	26.9	8.0	27.5	3.2	47.4	10.3	7.0	3.2					
				2	26.9	8.0	27.5	3.3	47.5	10.3	7.4								
		Surface	1.0	1	29.5	8.0	19.7	6.3	92.0	2.1	3.0								
				2	29.5	8.0	19.7	6.3	91.9	2.1	2.9								
						1	28.0	8.0	22.3	4.9	70.4	1.7	3.0	5.6	3.4	3.1			
		Middle	7.2	1	28.0	8.0	22.3	4.9	70.5	1.7	3.1								
		Bottom	13.4	1	26.4	8.0	27.1	3.9	56.5	6.4	3.2								
				2	26.5	8.0	27.1	3.9	56.6	6.3	3.2								
						1	28.9	8.0	20.7	5.7	83.5	6.0	1.6	5.7	6.7	2.1			
				2	28.9	8.0	20.7	5.7	83.5	6.1	1.9								
		Middle	4.2	1	28.8	8.0	20.7	5.6	80.9	6.7	2.2								
		Bottom	7.3	1	28.8	8.0	20.7	5.6	80.8	6.8	2.2								
						2	28.8	8.0	20.8	5.5	80.3	7.3	2.6	5.5					
				2	28.8	8.0	20.8	5.5	80.3	7.4	2.7								
		Surface	1.0	1	28.7	8.0	21.3	5.3	76.7	2.4	4.0								
				2	28.7	8.0	21.3	5.3	76.7	2.4	4.3								
						1	28.5	8.0	21.4	5.1	73.7	2.3	4.0	5.2	2.3	3.9			
		Middle	3.8	1	28.5	8.0	21.4	5.1	73.4	2.2	3.8								
		Bottom	6.5	1	27.1	8.0	25.0	4.4	62.9	2.3	3.6								
				2	27.1	8.0	25.0	4.4	63.1	2.3	3.5								
					1	29.5	8.1	18.2	6.7	96.7	2.8	2.6	6.2	3.4	3.3				
			2	29.5	8.0	18.2	6.7	96.6	2.8	2.9									
	Middle	6.0	1	28.9	8.0	19.4	5.7	83.0	3.5	3.4									
	Bottom	10.9	1	28.9	8.0	19.4	5.7	82.9	3.5	3.2									
					2	29.0	8.0	19.6	5.8	83.5	4.1	3.9	5.8						
			2	29.0	8.0	19.6	5.8	83.5	4.1	3.6									
	Surface	1.0	1	28.8	7.9	20.4	4.7	67.8	3.8	3.1									
			2	28.8	7.9	20.4	4.7	68.0	3.8	2.8									
					1	28.5	7.9	20.9	4.3	61.6	6.9	3.5	4.3	5.3	3.3				
	Bottom	3.3	1	28.5	7.9	20.9	4.3	61.6	6.9	3.5									
			2	28.5	7.9	20.9	4.3	61.6	6.9	3.8									
					1	29.4	8.0	19.6	6.5	94.7	2.2	2.2				6.5	2.5	2.6	
			2	29.4	8.0	19.6	6.5	94.5	2.2	2.5									
	Surface	1.0	1	28.9	8.0	21.1	5.7	82.4	2.8	3.0									
			2	28.9	8.0	21.1	5.4	78.9	2.8	2.7									
					1	28.8	8.0	20.6	5.7	83.3	4.1	6.9	4.5	7.9	7.4				
			2	28.8	8.0	20.6	5.7	83.1	4.1	6.4									
	Middle	4.3	1	26.9	8.0	27.5	3.3	47.8	9.8	7.2									
	Bottom	7.5	1	27.0	8.0	27.5	3.3	47.8	9.8	7.6									
					2	27.0	8.0	27.4	3.6	51.9	9.8	7.9	3.6						
			2	27.0	8.0	27.4	3.6	52.2	9.9	8.1									
	Surface	1.0	1	28.3	8.0	20.9	5.2	75.4	1.8	3.1									
			2	28.3	8.0	20.9	5.2	75.3	1.8	3.4									
					1	26.0	8.0	27.9	3.8	54.9	2.7	3.7	4.5	2.8	3.6				
Middle	7.0	1	26.0	8.0	27.9	3.8	54.8	2.7	3.5										
Bottom	12.9	1	25.5	8.1	29.1	3.5	50.1	3.8	3.9										
		2	25.5	8.1	29.2	3.5	50.0	3.8	3.7										
				1	28.8	8.0	20.9	5.7	82.8	6.4	5.7	5.6	7.9	5.2					
		2	28.8	8.0	20.9	5.7	82.7	6.3	5.7										
Middle	4.1	1	28.7	8.0	21.0	5.6	81.3	8.4	5.4										
Bottom	7.2	1	28.7	8.0	21.1	5.6	81.2	8.5	5.0										
				2	28.7	8.0	21.2	5.6	81.0	8.6	4.7	5.6							
		2	28.7	8.0	21.1	5.6	81.0	9.2	4.9										
Surface	1.0	1	28.6	8.0	20.3	5.0	71.6	2.4	8.4										
		2	28.6	8.0	20.3	5.0	71.6	2.4	8.0										
				1	28.1	8.0	21.4	4.7	67.2	2.6	4.1	4.8	3.7	5.2					
Middle	3.5	1	28.0	8.0	21.5	4.7	67.0	3.0	3.9										
Bottom	5.9	1	27.3	8.0	24.5	4.0	57.9	5.8	3.6										
		2	27.3	8.0	24.6	4.0	57.9	6.0	3.2										
				1	28.8	8.0	19.4	5.2	74.3	4.0	3.4	4.6	6.3	3.9					
		2	28.8	8.0	19.4	5.1	73.8	4.2	3.6										
Middle	5.7	1	27.3	8.1	24.2	4.1	59.4	6.3	4.0										
Bottom	10.4	1	27.3	8.1	24.2	4.1	59.2	6.3	3.9										
				2	25.9	8.1	28.3	3.7	52.8	8.8	4.4	3.7							
		2	25.9	8.1	28.3	3.7	53.0	8.5	4.2										
Surface	1.0	1	29.1	7.9	18.5	5.7	82.7	2.7	7.2										
		2	29.1	7.9	18.5	5.7	82.7	2.8	6.9										
				1	28.6	7.9	20.2	4.3	62.5	7.8	8.7	4.3	5.3	7.9					
Bottom	4.4	1	28.6	7.9	20.2	4.3	62.5	7.8	8.6										
		2	28.6	7.9	20.2	4.4	62.8	7.9	8.6										
				1	28.8	8.0	20.0	5.8	83.5	2.4	7.4				5.8	2.5	7.0		
		2	28.8	8.0	20.0	5.8	83.5	2.4	7.2										
Surface	1.0	1	28.8	8.0	20.0	5.8	83.5	2.4	6.8										
		2	28.8	8.0	20.1	5.6	81.5	2.5	6.8										
				1	28.7	8.0	20.4	5.6	80.9	2.6	6.6	5.6							
		2	28.7	8.0	20.4	5.6	80.9	2.6	6.6										

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)
2023-06-23	Mid-Ebb	TCE-C1	Rainy	Calm	14:36	9.0	Surface	1.0	1	28.6	8.2	21.3	6.4	92.2	3.5	6.4	6.1	4.6	5.6
									2	28.6	8.2	21.3	6.3	91.7	3.5	6.1			
							Middle	4.5	1	28.5	8.2	21.5	5.9	85.7	4.7	5.8			
							Bottom	8.0	1	26.2	8.1	29.2	4.6	67.7	5.7	5.1			
				2	26.3	8.1	29.1	4.7	67.7	5.8	4.8								
				2	28.4	8.0	20.8	6.4	92.2	1.9	2.3								
				2	28.4	8.0	20.8	6.4	92.1	2.0	2.4								
				1	28.1	8.0	22.1	5.7	82.4	2.6	3.1								
				2	28.1	8.0	22.0	5.7	82.4	2.5	2.9								
				1	28.3	8.0	21.4	5.7	83.0	3.1	3.3								
				2	28.3	8.0	21.3	5.8	83.6	3.1	3.1								
				1	29.1	8.3	20.2	7.6	109.9	3.6	6.0								
				2	29.1	8.3	20.2	7.5	109.7	3.7	5.7								
				1	28.9	8.2	20.7	6.6	96.1	4.4	4.6								
				2	28.9	8.2	20.7	6.6	95.9	4.4	4.3								
				1	28.9	8.2	21.4	6.0	87.3	6.1	3.8								
				2	28.9	8.3	21.1	6.0	87.4	6.0	4.0								
				1	28.6	8.1	20.6	6.3	91.5	1.2	3.4								
				2	28.6	8.1	20.6	6.3	91.5	1.2	3.6								
				1	28.6	8.0	20.6	6.2	89.2	2.1	3.3								
				2	28.6	8.0	20.6	6.1	88.6	2.1	3.1								
				1	26.8	8.0	26.1	5.5	78.9	3.0	2.7								
				2	26.9	8.0	25.9	5.3	77.9	3.1	2.9								
				1	28.4	8.0	21.1	6.3	90.5	1.0	2.9								
			2	28.4	8.0	21.1	6.3	90.7	1.0	3.2									
			1	27.9	8.0	22.5	5.6	81.4	2.2	3.6									
			2	27.9	8.0	22.6	5.6	81.2	2.2	3.5									
			1	27.8	8.0	23.1	5.6	80.6	3.3	3.8									
			2	27.7	8.0	23.1	5.6	80.8	3.4	4.0									
			1	28.7	8.0	20.1	5.7	81.8	2.4	4.3									
			2	28.7	8.0	20.2	5.7	82.1	2.4	4.1									
			1	28.7	8.0	20.2	5.9	84.7	3.2	3.8									
			2	28.7	8.0	20.2	5.9	84.9	3.3	3.9									
			1	29.0	8.2	19.5	7.8	113.1	2.1	4.2									
			2	29.0	8.2	19.5	7.8	113.1	2.1	4.5									
			1	29.0	8.2	19.9	7.3	106.5	2.1	3.8									
			2	29.0	8.2	19.9	7.3	106.3	2.1	3.9									
			1	28.5	8.2	21.2	6.0	87.5	3.4	4.0									
			2	28.5	8.2	21.2	6.0	86.6	3.5	3.7									
			1	27.7	8.2	24.4	4.3	62.1	4.2	3.2									
			2	27.6	8.2	24.7	4.2	60.4	4.2	3.4									
			1	26.2	8.2	29.2	3.9	56.8	5.1	2.6									
			2	26.2	8.2	29.2	4.0	57.9	5.1	2.8									
			1	29.0	8.1	18.4	7.1	101.4	1.1	2.4									
			2	29.0	8.1	18.4	7.0	101.3	1.1	2.6									
			1	27.4	8.1	24.2	5.0	72.9	1.5	3.0									
			2	27.4	8.1	24.1	5.0	72.9	1.6	2.8									
			1	25.7	8.1	28.7	4.2	60.5	2.2	3.5									
		2	25.7	8.1	28.7	4.2	61.1	2.2	3.2										
		1	29.1	8.2	20.4	7.4	107.4	3.7	2.2										
		2	29.1	8.2	20.4	7.4	107.1	3.7	2.4										
		1	29.0	8.1	20.5	7.0	102.5	4.2	2.6										
		2	29.0	8.1	20.5	7.0	102.3	4.2	2.7										
		1	28.8	8.1	21.2	6.3	92.2	5.6	3.3										
		2	28.8	8.1	21.2	6.3	92.2	5.6	3.2										
		1	28.7	8.1	19.6	6.8	98.5	1.1	2.6										
		2	28.7	8.1	19.6	6.8	98.5	1.1	2.3										
		1	28.4	8.1	21.3	5.7	81.8	1.6	2.9										
		2	28.4	8.1	21.3	5.6	81.7	1.6	2.7										
		1	28.0	8.0	22.4	5.0	72.4	2.0	3.1										
		2	28.0	8.0	22.4	5.0	72.5	2.1	3.2										
		1	28.7	8.1	18.8	6.3	90.2	2.8	2.4										
		2	28.7	8.1	18.8	6.3	89.9	2.8	2.2										
		1	28.1	8.1	21.8	5.1	73.2	4.1	2.5										
		2	28.0	8.1	21.9	5.1	72.9	4.2	2.7										
		1	27.3	8.2	24.1	4.0	58.2	5.6	3.1										
		2	25.6	8.2	28.6	4.0	58.0	5.6	3.4										
		1	28.9	8.1	19.4	6.9	100.1	2.3	3.0										
		2	28.9	8.1	19.4	6.9	100.1	2.3	3.2										
		1	28.9	8.1	19.5	6.7	96.3	3.4	2.5										
		2	28.9	8.1	19.5	6.7	96.4	3.5	2.8										
		1	29.0	8.1	19.5	7.0	100.8	1.4	3.8										
		2	29.0	8.1	19.5	7.0	100.6	1.4	3.4										
		1	28.8	8.1	20.0	6.7	96.3	2.6	3.0										
		2	28.8	8.1	20.0	6.6	96.1	2.7	3.3										
2023-06-23	Mid-Flood	TCE-C1	Rainy	Calm	10:39	7.6	Surface	1.0	1	28.5	8.2	21.2	6.0	87.5	3.4	4.0	5.1	4.3	3.3
									2	28.5	8.2	21.2	6.0	86.6	3.5	3.7			
							Middle	3.8	1	27.7	8.2	24.4	4.3	62.1	4.2	3.2			
							Bottom	6.6	1	26.2	8.2	29.2	3.9	56.8	5.1	2.6			
				2	26.2	8.2	29.2	4.0	57.9	5.1	2.8								
				1	29.0	8.1	18.4	7.1	101.4	1.1	2.4								
				2	29.0	8.1	18.4	7.0	101.3	1.1	2.6								
				1	27.4	8.1	24.2	5.0	72.9	1.5	3.0								
				2	27.4	8.1	24.1	5.0	72.9	1.6	2.8								
				1	25.7	8.1	28.7	4.2	60.5	2.2	3.5								
				2	25.7	8.1	28.7	4.2	61.1	2.2	3.2								
				1	29.1	8.2	20.4	7.4	107.4	3.7	2.2								
				2	29.1	8.2	20.4	7.4	107.1	3.7	2.4								
				1	29.0	8.1	20.5	7.0	102.5	4.2	2.6								
				2	29.0	8.1	20.5	7.0	102.3	4.2	2.7								
				1	28.8	8.1	21.2	6.3	92.2	5.6	3.3								
				2	28.8	8.1	21.2	6.3	92.2	5.6	3.2								
				1	28.7	8.1	19.6	6.8	98.5	1.1	2.6								
				2	28.7	8.1	19.6	6.8	98.5	1.1	2.3								
				1	28.4	8.1	21.3	5.7	81.8	1.6	2.9								
				2	28.4	8.1	21.3	5.6	81.7	1.6	2.7								
				1	28.0	8.0	22.4	5.0	72.4	2.0	3.1								
				2	28.0	8.0	22.4	5.0	72.5	2.1	3.2								
				1	28.7	8.1	18.8	6.3	90.2	2.8	2.4								
				2	28.7	8.1	18.8	6.3	89.9	2.8	2.2								
				1	28.1	8.1	21.8	5.1	73.2	4.1	2.5								
				2	28.0	8.1	21.9	5.1	72.9	4.2	2.7								
				1	27.3	8.2	24.1	4.0	58.2	5.6	3.1								
				2	25.6	8.2	28.6	4.0	58.0	5.6	3.4								
				1	28.9	8.1	19.4	6.9	100.1	2.3	3.0								
				2	28.9	8.1	19.4	6.9	100.1	2.3	3.2								
				1	28.9	8.1	19.5	6.7	96.3	3.4	2.5								
				2	28.9	8.1	19.5	6.7	96.4	3.5	2.8								
				1	29.0	8.1	19.5	7.0	100.8	1.4	3.8								
				2	29.0	8.1	19.5	7.0	100.6	1.4	3.4								
				1	28.8	8.1	20.0	6.7	96.3	2.6	3.0								
				2	28.8	8.1	20.0	6.6	96.1	2.7	3.3								
				1	28.5	8.2	21.2	6.0	87.5	3.4	4.0								
				2	28.5	8.2	21.2	6.0	86.6	3.5	3.7								
				1	27.7	8.2	24.4	4.3	62.1	4.2	3.2								
				2	27.6	8.2	24.7	4.2	60.4	4.2	3.4								
				1	26.2	8.2	29.2	3.9	56.8	5.1	2.6								
				2	26.2	8.2	29.2	4.0	57.9	5.1	2.8								
				1	29.0	8.1	18.4	7.1	101.4	1.1	2.4								
				2	29.0	8.1	18.4	7.0	101.3	1.1	2.6								
				1	27.4	8.1	24.2	5.0	72.9	1.5	3.0								
				2	27.4	8.1	24.1	5.0	72.9	1.6	2.8								
				1	25.7	8.1	28.7	4.2	60.5	2.2	3.5								
		2	25.7	8.1	28.7	4.2	61.1	2.2	3.2										
		1	29.1	8.2	20.4	7.4	107.4	3.7	2.2										
		2	29.1	8.2	20.4	7.4	107.1	3.7	2.4										
		1	29.0	8.1	20.5	7.0	102.5	4.2	2.6										
		2	29.0	8.1	20.5	7.0	102.3	4.2	2.7										
		1	28.8	8.1	21.2	6.3	92.2	5.6	3.3										
		2	28.8	8.1	21.2	6.3	92.2	5.6											

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)
2023-06-26	Mid-Ebb	TCE-C1	Fine	Rough	7:56	9.0	Surface	1.0	1	25.8	7.9	19.6	6.8	92.8	1.7	2.5	6.6	2.7	2.7
									2	25.7	7.9	19.7	6.8	92.6	1.7	2.2			
							Middle	4.0	1	25.7	7.9	19.8	6.5	89.2	1.7	2.7			
							Bottom	6.9	1	25.6	7.9	19.9	6.5	88.9	1.8	2.5			
				2	25.6	7.9	21.5	4.9	67.5	4.6	3.0								
				2	25.6	7.9	21.5	4.9	67.8	4.7	3.3								
		TCE-C2	Fine	Moderate	5:42	14.8	Surface	1.0	1	25.7	7.8	17.9	6.8	92.6	1.3	4.2	6.2	2.7	3.4
									2	25.7	7.8	17.9	6.8	92.4	1.3	3.9			
							Middle	6.3	1	24.5	7.8	24.4	5.6	76.5	1.8	3.5			
							Bottom	11.6	1	24.5	7.8	24.4	5.5	76.3	1.8	3.2			
				2	22.5	7.8	30.4	4.2	57.6	4.9	2.5								
				2	22.5	7.8	30.3	4.2	57.6	5.0	2.8								
	TCE-WQM1	Fine	Moderate	7:01	8.0	Surface	1.0	1	26.3	7.9	17.0	7.4	100.9	1.2	2.4	6.9	3.3	2.7	
								2	26.3	7.9	17.0	7.4	100.7	1.3	2.5				
						Middle	4.9	1	25.6	7.9	19.8	6.4	87.6	3.9	2.7				
						Bottom	8.7	1	25.6	7.9	19.8	6.4	87.1	3.9	2.8				
			2	24.4	7.8	25.5	5.2	71.3	4.7	2.8									
			2	24.4	7.8	25.5	5.2	71.5	4.7	3.1									
	TCE-WQM2a	Fine	Moderate	6:21	8.0	Surface	1.0	1	25.5	7.9	20.5	6.3	86.7	1.7	2.7	5.8	3.9	1.9	
								2	25.5	7.9	20.5	6.3	86.7	1.7	2.3				
						Middle	3.4	1	24.9	7.9	23.3	5.3	73.3	3.8	1.9				
						Bottom	5.8	1	24.9	7.9	23.3	5.3	72.8	3.8	1.6				
			2	22.9	7.9	30.2	4.6	63.5	6.3	1.4									
			2	22.9	7.9	30.2	4.6	63.6	6.4	1.6									
TCE-WQM2b	Fine	Moderate	6:06	10.2	Surface	1.0	1	25.7	7.8	17.9	6.9	93.4	1.2	2.4	6.5	1.2	2.9		
							2	25.7	7.8	17.9	6.9	93.3	1.2	2.6					
					Middle	4.5	1	25.3	7.8	21.0	6.2	84.6	1.1	2.7					
					Bottom	7.9	1	25.3	7.8	21.0	6.2	84.5	1.1	3.0					
		2	24.5	7.8	24.2	5.8	79.1	1.5	3.6										
		2	24.5	7.8	24.3	5.7	78.8	1.5	3.3										
TCE-WQM3A	Fine	Moderate	6:35	3.4	Surface	1.0	1	25.5	7.8	20.5	6.2	84.9	1.7	2.9	6.2	1.6	2.5		
							2	25.5	7.8	20.5	6.2	84.9	1.7	2.6					
					Bottom	3.4	1	25.1	7.8	21.9	6.0	82.9	1.4	2.1					
		2	25.1	7.8	21.9	6.0	83.0	1.4	2.3										
TCE-WQM4	Fine	Moderate	6:46	3.8	Surface	1.0	1	25.9	7.8	18.8	6.3	86.1	1.8	1.5	6.3	1.6	2.0		
							2	25.9	7.8	18.8	6.3	86.1	1.8	1.8					
					Bottom	2.8	1	25.1	7.8	21.9	6.0	82.9	1.3	2.2					
		2	25.1	7.8	21.9	6.0	82.9	1.4	2.4										
2023-06-26	Mid-Flood	TCE-C1	Sunny	Rough	10:15	7.6	Surface	1.0	1	26.2	7.9	19.0	6.9	94.9	2.6	2.3	6.6	5.3	2.1
									2	26.2	7.9	19.0	6.9	94.8	2.6	2.5			
							Middle	4.1	1	25.6	7.9	20.9	6.3	86.1	5.6	2.0			
							Bottom	7.1	1	25.6	7.9	20.9	6.3	86.2	5.6	2.2			
				2	25.4	7.9	22.0	5.2	71.8	7.8	1.6								
				2	25.4	7.9	22.0	5.2	71.8	7.7	1.9								
		TCE-C2	Sunny	Moderate	12:42	12.0	Surface	1.0	1	25.8	8.0	19.1	7.2	98.5	1.6	3.6	5.9	2.8	2.8
									2	25.8	8.0	19.1	7.2	98.5	1.7	3.1			
							Middle	6.7	1	23.1	8.0	29.6	4.6	64.1	3.1	2.9			
							Bottom	12.4	1	23.2	8.0	29.5	4.6	64.1	3.2	2.6			
				2	22.0	8.1	32.6	4.3	59.0	3.5	2.3								
				2	22.0	8.1	32.6	4.3	59.2	3.5	2.4								
	TCE-WQM1	Sunny	Moderate	11:29	7.2	Surface	1.0	1	26.3	7.9	18.9	6.9	95.1	1.5	2.4	6.4	4.2	1.9	
								2	26.3	7.9	18.9	6.9	94.9	1.5	2.6				
						Middle	5.3	1	25.6	7.9	21.1	6.0	82.0	4.5	1.9				
						Bottom	9.6	1	25.6	7.9	21.1	5.9	81.8	4.5	1.6				
			2	25.1	7.8	23.6	5.8	79.8	6.7	1.4									
			2	25.1	7.8	23.7	5.8	79.8	6.6	1.7									
	TCE-WQM2a	Sunny	Moderate	12:03	8.0	Surface	1.0	1	25.9	7.9	18.4	7.1	97.2	3.3	2.2	6.3	3.7	2.0	
								2	25.9	7.9	18.4	7.1	97.2	3.3	2.5				
						Middle	3.7	1	25.3	7.8	21.9	5.6	76.8	2.5	2.1				
						Bottom	6.4	1	25.3	7.8	21.9	5.6	76.6	2.5	2.3				
			2	24.5	7.8	25.0	4.6	63.2	5.2	1.4									
			2	24.5	7.8	25.0	4.6	63.3	5.3	1.6									
TCE-WQM2b	Sunny	Moderate	12:16	12.0	Surface	1.0	1	24.8	7.9	23.9	6.9	96.6	2.1	1.7	6.3	2.1	2.2		
							2	24.8	7.9	23.9	6.9	96.3	2.0	1.5					
					Middle	4.7	1	26.2	7.8	17.7	5.7	79.2	1.8	2.4					
					Bottom	8.3	1	26.2	7.8	17.7	5.7	79.2	1.8	2.1					
		2	24.7	7.9	24.3	5.2	71.9	2.6	2.7										
		2	24.7	7.9	24.3	5.2	72.0	2.6	2.5										
TCE-WQM3A	Sunny	Calm	11:52	3.8	Surface	1.0	1	25.7	7.9	18.6	6.7	91.8	5.7	2.1	6.7	5.5	1.9		
							2	25.7	7.9	18.6	6.7	91.6	5.6	2.3					
					Bottom	4.1	1	25.4	7.7	21.9	5.9	81.2	5.4	1.5					
		2	25.4	7.7	21.9	5.9	81.4	5.3	1.7										
TCE-WQM4	Sunny	Calm	11:41	3.8	Surface	1.0	1	25.8	7.9	18.9	6.9	93.6	3.8	2.5	6.9	3.5	2.4		
							2	25.8	7.9	18.9	6.9	93.6	3.9	2.6					
					Bottom	3.2	1	25.6	7.8	21.2	5.6	77.6	3.3	2.4					
		2	25.6	7.8	21.1	5.6	77.6	3.3	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)
2023-06-28	Mid-Ebb	TCE-C1	Fine	Calm	10:42	8.0	Surface	1.0	1	30.1	8.3	15.8	8.0	115.4	3.8	4.1	5.7	4.3	3.7
									2	30.1	8.3	15.8	7.9	115.4	3.8	3.6			
							Middle	4.0	1	27.6	7.7	26.8	3.4	50.2	4.0	3.7			
							Bottom	7.0	1	27.3	7.7	27.7	3.0	44.6	5.3	4.0			
				2	27.4	7.7	27.5	3.1	44.5	5.1	3.3								
		TCE-C2	Fine	Calm	8:45	12.6	Surface	1.0	1	29.1	8.0	19.2	7.4	108.3	1.8	3.4	6.3	2.6	4.2
									2	29.2	8.1	19.0	7.5	108.1	1.8	4.1			
							Middle	6.3	1	27.8	7.9	24.9	5.1	74.4	2.4	4.3			
							Bottom	11.6	1	26.6	7.8	29.1	4.0	58.9	3.6	4.1			
				2	26.6	7.8	29.1	4.0	59.0	3.6	5.1								
		TCE-WQM1	Fine	Calm	10:00	8.6	Surface	1.0	1	30.4	8.5	15.8	11.0	160.3	2.9	4.2	7.4	3.7	4.6
									2	30.4	8.5	15.8	11.0	159.9	2.9	4.8			
	Middle						4.3	1	28.3	7.8	24.1	3.7	54.9	3.8	4.5				
	Bottom						7.6	1	27.7	7.7	26.7	3.0	44.5	4.4	4.5				
			2	27.7	7.7	26.7	3.1	45.4	4.3	4.8									
	TCE-WQM2a	Fine	Calm	9:28	8.0	Surface	1.0	1	29.6	8.3	18.4	9.4	137.2	3.2	4.3	9.4	4.2	3.9	
								2	29.6	8.3	18.4	9.4	137.2	3.2	3.9				
						Middle	4.0	1	29.6	8.3	18.3	9.4	137.1	4.2	3.8				
						Bottom	7.0	1	29.1	8.1	20.9	7.1	103.9	5.2	3.3				
			2	29.1	8.1	19.4	7.0	103.0	5.1	4.5									
	TCE-WQM2b	Fine	Calm	9:15	11.0	Surface	1.0	1	29.9	8.3	16.5	10.4	150.2	3.0	4.4	8.6	4.9	4.3	
								2	29.9	8.3	16.5	10.4	150.4	3.0	4.6				
						Middle	5.5	1	29.1	8.0	20.4	6.8	99.8	5.0	4.6				
						Bottom	10.0	1	27.7	7.7	25.9	4.4	65.1	6.7	4.1				
		2	27.7	7.7	26.0	4.5	66.6	6.7	4.1										
TCE-WQM3A	Fine	Calm	9:38	3.6	Surface	1.0	1	29.6	8.4	18.0	10.6	153.7	1.0	4.0	10.5	2.0	3.8		
							2	29.5	8.4	18.0	10.4	150.7	1.0	4.2					
					Bottom	2.6	1	29.6	8.2	19.7	8.5	123.9	3.0	3.3					
		2	29.6	8.2	19.6	8.3	122.1	3.0	3.8										
TCE-WQM4	Fine	Calm	9:48	4.4	Surface	1.0	1	29.3	8.2	19.2	8.3	120.2	5.4	3.4	8.3	6.1	3.4		
							2	29.1	8.2	19.3	8.3	119.8	5.4	3.1					
					Bottom	3.4	1	29.1	7.8	22.8	5.3	78.1	6.8	3.6					
		2	29.2	7.8	22.3	5.3	78.6	6.8	3.3										
2023-06-28	Mid-Flood	TCE-C1	Fine	Calm	13:15	7.0	Surface	1.0	1	30.0	8.5	16.8	11.5	166.8	3.8	5.5	8.6	4.2	6.1
									2	30.0	8.5	16.7	11.5	166.5	3.8	6.0			
							Middle	3.5	1	28.8	8.0	20.4	5.7	83.3	4.2	6.3			
							Bottom	6.0	1	27.9	7.8	26.3	4.9	72.6	4.6	6.2			
				2	27.9	7.8	26.2	4.9	72.0	4.6	6.0								
		TCE-C2	Fine	Calm	15:24	13.6	Surface	1.0	1	28.9	8.3	21.2	8.8	128.8	2.9	5.2	6.3	3.6	5.1
									2	28.9	8.3	21.2	8.8	128.4	2.9	4.8			
							Middle	6.8	1	25.5	7.9	31.7	3.9	56.4	3.0	5.4			
							Bottom	12.6	1	24.9	7.9	33.3	4.1	59.1	4.9	5.1			
				2	24.9	7.9	33.3	4.1	59.9	4.9	4.9								
		TCE-WQM1	Fine	Calm	14:03	7.6	Surface	1.0	1	30.0	8.5	17.0	11.0	158.9	3.6	4.7	7.6	4.8	4.9
									2	30.0	8.5	16.9	10.9	157.8	3.6	4.7			
	Middle						3.8	1	28.5	7.9	23.4	4.3	62.6	4.2	5.2				
	Bottom						6.6	1	27.8	7.7	26.5	3.1	45.2	6.8	5.2				
			2	27.8	7.8	26.5	3.1	45.5	6.8	4.7									
	TCE-WQM2a	Fine	Calm	14:42	7.0	Surface	1.0	1	30.0	8.5	17.2	11.5	167.5	3.0	4.6	8.8	3.0	3.9	
								2	30.0	8.5	17.2	11.5	167.5	3.0	4.5				
						Middle	3.5	1	29.0	8.0	21.1	6.1	88.7	2.4	4.4				
						Bottom	6.0	1	28.3	7.9	23.4	5.2	76.5	3.4	3.6				
			2	28.3	7.9	23.4	5.2	76.7	3.4	1.7									
	TCE-WQM2b	Fine	Calm	14:55	11.2	Surface	1.0	1	29.0	8.1	20.0	7.5	109.4	3.1	3.9	6.5	4.2	4.6	
								2	29.0	8.1	20.1	7.5	109.1	3.1	4.7				
						Middle	5.6	1	28.0	7.9	23.7	5.4	79.0	4.3	4.0				
						Bottom	10.2	1	26.4	7.8	29.4	3.9	57.5	5.0	5.1				
		2	26.4	7.8	29.4	4.0	57.9	5.0	4.9										
TCE-WQM3A	Fine	Calm	14:30	4.0	Surface	1.0	1	29.4	8.2	19.3	8.6	125.7	6.1	4.4	8.7	7.0	5.2		
							2	29.4	8.2	19.2	8.7	126.0	6.1	4.4					
					Bottom	3.0	1	29.1	8.0	20.4	6.7	97.0	7.9	6.0					
		2	29.0	8.0	20.4	6.6	96.6	7.9	6.1										
TCE-WQM4	Fine	Calm	14:18	4.0	Surface	1.0	1	29.8	8.4	18.0	10.8	157.3	3.0	4.3	10.8	3.0	4.5		
							2	29.8	8.4	18.1	10.8	156.9	3.0	4.5					
					Bottom	3.0	1	29.1	8.1	20.6	6.9	100.9	3.1	4.5					
		2	29.1	8.1	20.6	6.9	100.7	3.0	4.6										

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)	
2023-06-30	Mid-Ebb	TCE-C1	Fine	Moderate	12:13	7.8	Surface	1.0	1	29.6	8.2	12.6	8.2	116.0	3.0	3.6	7.4	3.7	2.9	
									2	29.6	8.2	12.6	8.2	116.0	2.9	3.2				
							Middle	3.9	1	28.7	8.1	21.7	6.5	94.7	3.4	3.0				
							Bottom	6.8	1	27.1	7.9	27.0	4.6	66.9	4.7	2.5				
				2	27.1	7.9	27.0	4.6	66.9	4.8	2.3									
		TCE-C2	Fine	Moderate	10:15	14.8	Surface	1.0	1	29.3	8.1	14.5	6.9	98.3	4.4	3.0	5.3	5.4	3.5	
									2	29.3	8.1	14.5	6.9	97.8	4.4	2.5				
							Middle	7.4	1	26.0	7.9	29.7	3.6	52.6	5.2	3.6				
							Bottom	13.8	1	26.0	7.9	29.7	3.6	52.6	5.2	3.2				
				2	25.4	7.9	31.7	3.7	53.9	6.7	4.3									
		TCE-WQM1	Fine	Moderate	11:30	9.4	Surface	1.0	1	29.6	8.2	14.4	8.1	115.6	1.8	2.4	7.2	2.6	3.1	
									2	29.6	8.2	14.5	8.1	115.6	1.8	2.6				
							Middle	4.7	1	28.5	8.0	21.8	6.3	91.0	2.7	3.3				
							Bottom	8.4	1	27.1	7.9	27.1	4.6	67.2	3.4	3.8				
				2	27.1	7.9	27.1	4.6	67.6	3.4	3.5									
		TCE-WQM2a	Fine	Moderate	10:58	8.0	Surface	1.0	1	29.5	8.2	14.7	8.0	114.3	1.7	2.2	8.0	2.4	2.9	
									2	29.5	8.2	14.7	8.0	114.3	1.7	2.2				
							Middle	4.0	1	29.4	8.2	15.6	7.9	112.8	2.4	3.0				
							Bottom	7.0	1	28.6	8.1	23.7	6.5	95.3	3.0	3.8				
				2	28.7	8.1	23.6	6.4	95.0	3.1	3.4									
		TCE-WQM2b	Fine	Moderate	10:45	10.4	Surface	1.0	1	29.2	8.1	14.9	6.8	96.7	3.1	2.3	6.1	4.4	2.7	
									2	29.2	8.1	14.9	6.8	96.4	3.1	2.1				
							Middle	5.2	1	27.4	8.0	25.2	5.3	77.6	4.2	2.7				
							Bottom	9.4	1	27.4	8.0	25.2	5.4	77.9	4.1	2.5				
			2	25.9	7.9	30.7	4.0	58.6	6.0	3.5										
	TCE-WQM3A	Fine	Moderate	11:08	4.6	Surface	1.0	1	29.5	8.2	14.7	8.1	114.5	3.0	3.4	8.0	3.3	2.8		
								2	29.5	8.2	14.7	8.0	114.5	3.0	3.0					
						Bottom	3.6	1	29.4	8.2	15.8	7.9	112.5	3.5	2.6					
								2	29.4	8.2	15.9	7.9	112.4	3.6	2.3					
	TCE-WQM4	Fine	Moderate	11:18	4.4	Surface	1.0	1	29.5	8.2	14.7	7.8	110.8	3.7	3.0	7.8	3.9	2.8		
								2	29.5	8.2	14.7	7.8	110.5	3.7	3.4					
						Bottom	3.4	1	26.6	7.9	28.9	4.8	70.2	4.1	2.3					
								2	26.6	7.9	28.9	4.8	70.5	4.1	2.6					
	2023-06-30	Mid-Flood	TCE-C1	Fine	Moderate	15:55	7.8	Surface	1.0	1	29.7	8.2	12.9	8.0	113.2	1.0	2.3	7.0	2.2	2.6
										2	29.6	8.2	12.9	8.0	113.0	1.1	2.0			
								Middle	3.9	1	28.2	8.0	23.0	6.0	87.8	2.2	2.7			
								Bottom	6.8	1	28.2	8.0	22.9	6.0	87.7	2.2	2.5			
					2	27.3	7.9	26.3	4.8	69.9	3.2	2.9								
			TCE-C2	Fine	Moderate	18:04	13.6	Surface	1.0	1	29.6	8.3	13.0	8.3	117.5	4.1	2.3	7.9	5.5	1.8
										2	29.6	8.3	13.0	8.3	117.4	4.0	2.5			
								Middle	6.8	1	29.1	8.2	17.9	7.4	106.1	5.6	1.9			
								Bottom	12.6	1	27.9	8.0	24.2	6.0	88.2	7.0	1.1			
					2	27.9	8.0	24.2	6.0	88.1	7.0	1.3								
			TCE-WQM1	Fine	Moderate	16:44	7.4	Surface	1.0	1	29.7	8.2	13.7	8.3	117.2	2.0	2.7	7.4	2.3	2.4
										2	29.7	8.2	13.9	8.2	117.0	2.0	2.6			
								Middle	3.7	1	28.5	8.1	21.5	6.5	93.7	2.1	2.4			
								Bottom	6.4	1	28.5	8.1	21.4	6.5	93.9	2.1	2.3			
					2	27.9	8.0	24.4	5.8	85.3	2.9	2.1								
TCE-WQM2a			Fine	Moderate	17:22	7.0	Surface	1.0	1	29.7	8.2	14.0	8.3	118.3	2.8	2.5	7.9	3.9	2.7	
									2	29.7	8.2	14.0	8.3	118.3	2.8	2.2				
							Middle	3.5	1	29.4	8.1	16.8	7.4	106.9	3.5	2.8				
							Bottom	6.0	1	29.4	8.2	16.6	7.5	107.9	3.4	2.7				
				2	27.6	8.0	25.3	5.7	82.5	5.3	2.9									
TCE-WQM2b			Fine	Moderate	17:35	11.2	Surface	1.0	1	29.7	8.3	12.3	8.4	118.5	1.1	3.4	8.2	2.2	2.7	
									2	29.7	8.2	12.2	8.4	118.5	1.1	3.0				
							Middle	5.6	1	29.6	8.2	14.9	7.9	113.1	2.4	2.8				
							Bottom	10.2	1	29.6	8.2	14.9	7.9	112.8	2.4	2.5				
			2	28.2	8.0	23.5	6.3	92.0	3.0	2.3										
TCE-WQM3A		Fine	Moderate	17:10	4.0	Surface	1.0	1	29.7	8.3	12.2	8.2	115.7	4.0	3.7	8.2	4.8	3.0		
								2	29.7	8.3	12.2	8.2	115.6	4.0	3.4					
						Bottom	3.0	1	27.5	8.0	25.7	5.4	78.5	5.7	2.3					
								2	27.5	8.0	25.6	5.4	78.7	5.7	2.5					
TCE-WQM4		Fine	Moderate	16:58	4.0	Surface	1.0	1	29.7	8.2	12.7	8.2	115.3	6.1	2.2	8.2	6.6	2.0		
								2	29.7	8.2	12.7	8.2	115.2	6.1	2.4					
						Bottom	3.0	1	27.5	7.9	26.0	5.2	76.4	7.0	1.6					
								2	27.5	7.9	26.0	5.2	76.6	7.0	1.9					