

Annex F3

## Monitoring Results for Water Quality

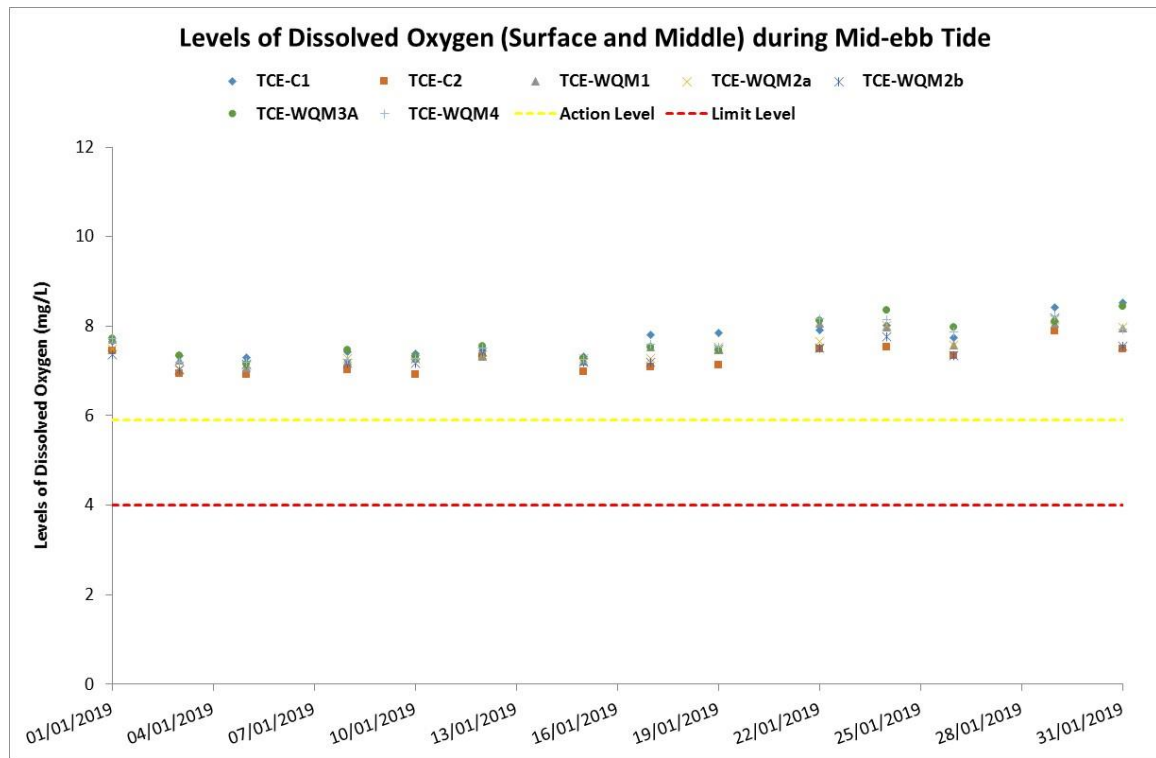


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 January 2019

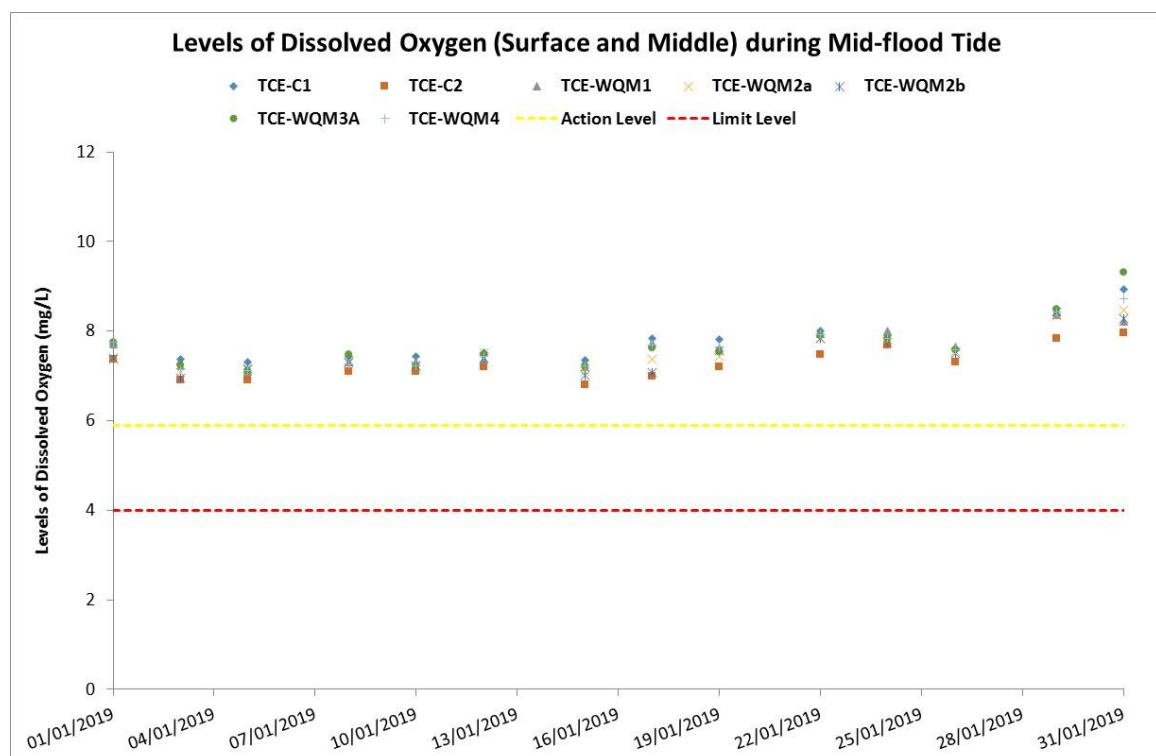


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 January 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: January 2019

**Environmental  
 Resources  
 Management**



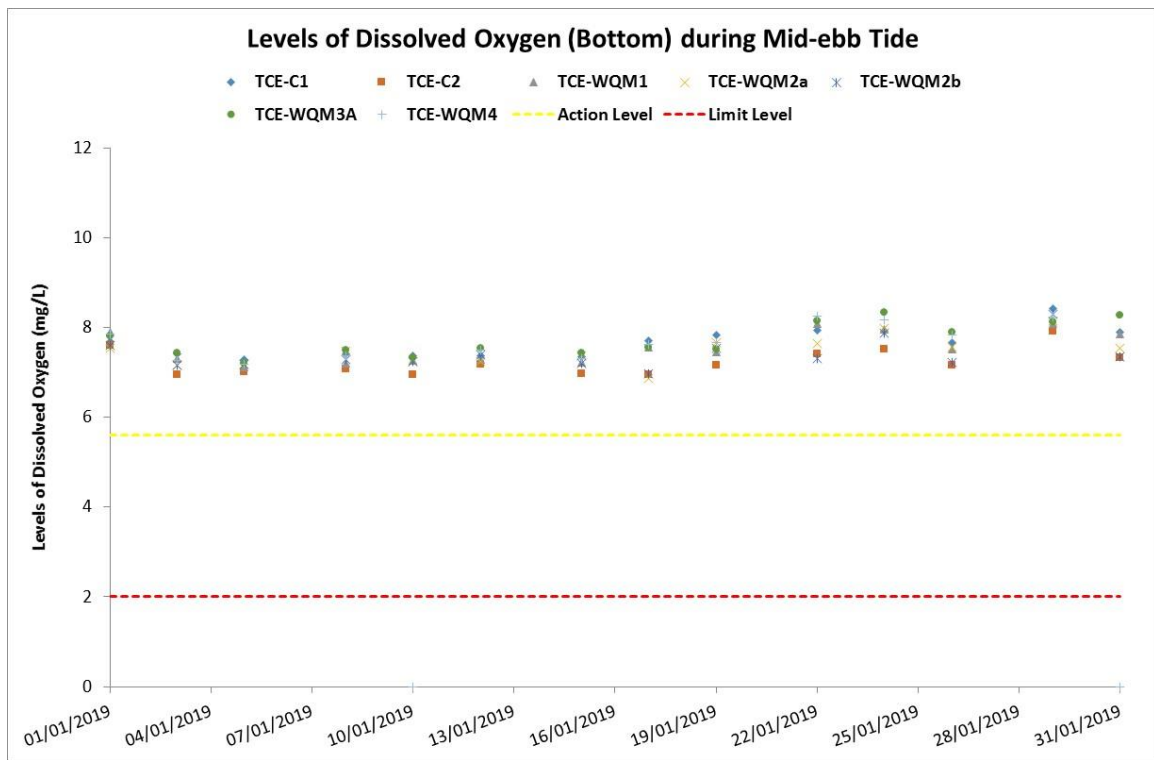


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 January 2019

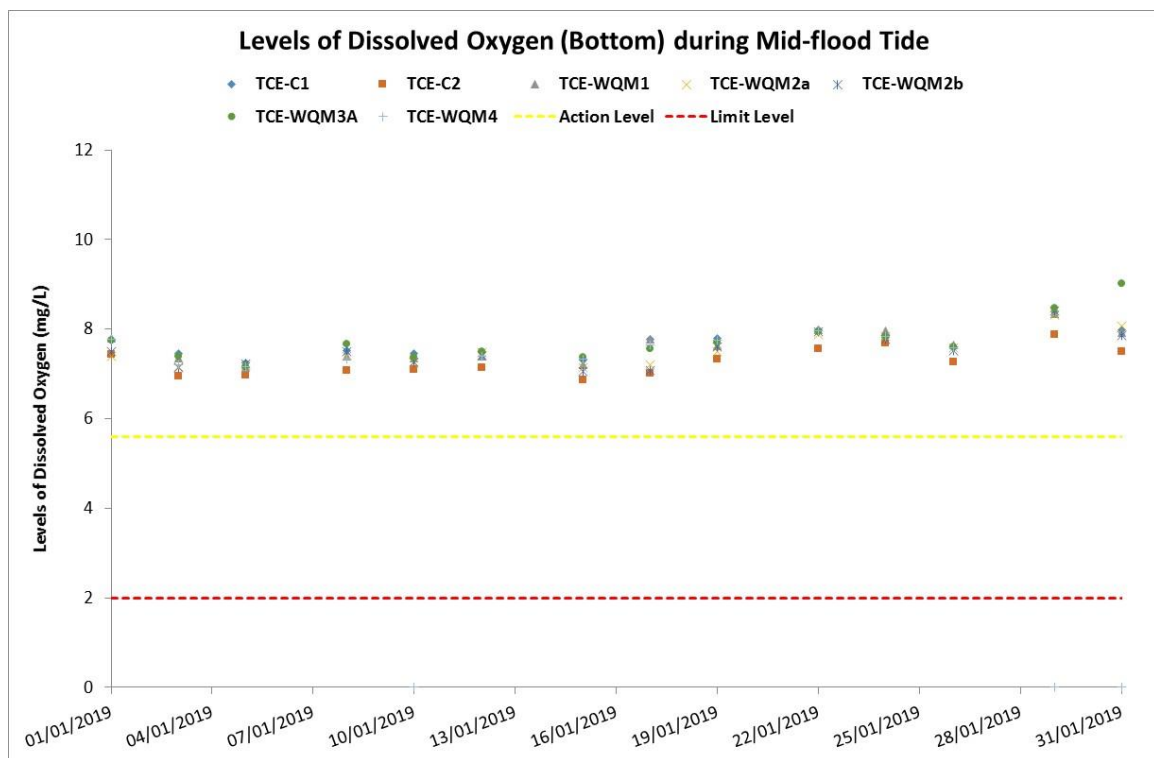


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 January 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: January 2019

**Environmental  
 Resources  
 Management**



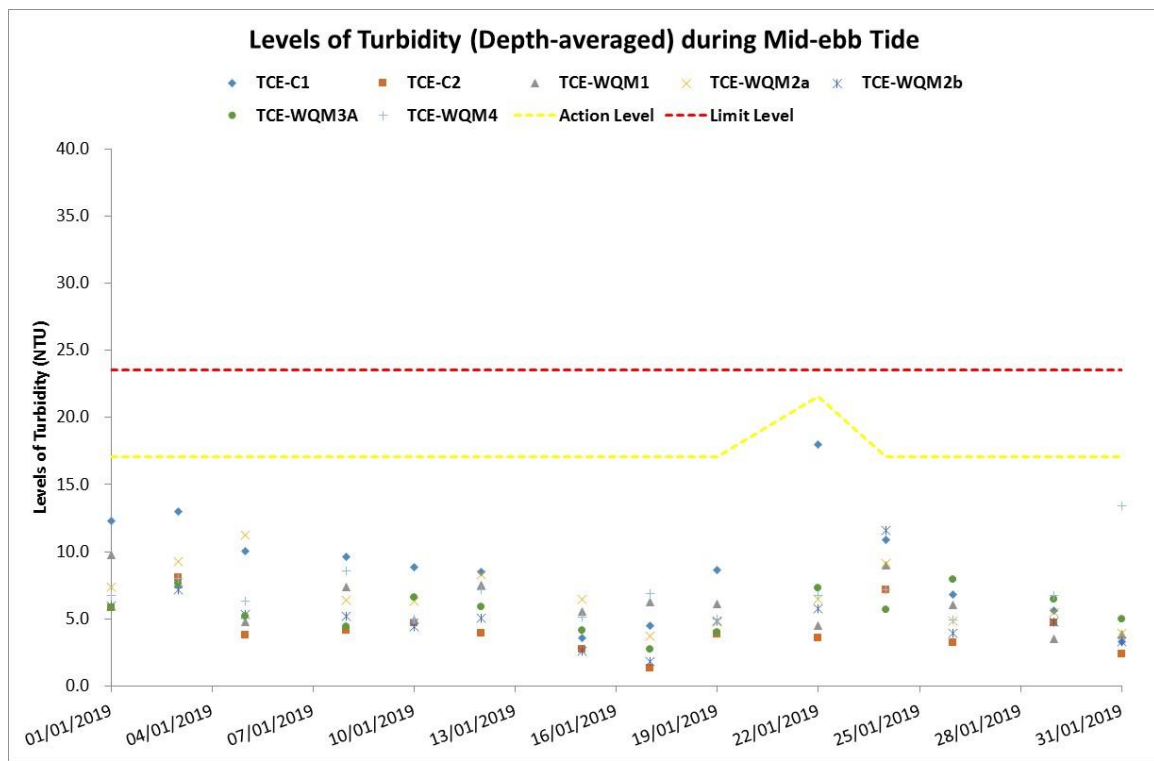


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 January 2019

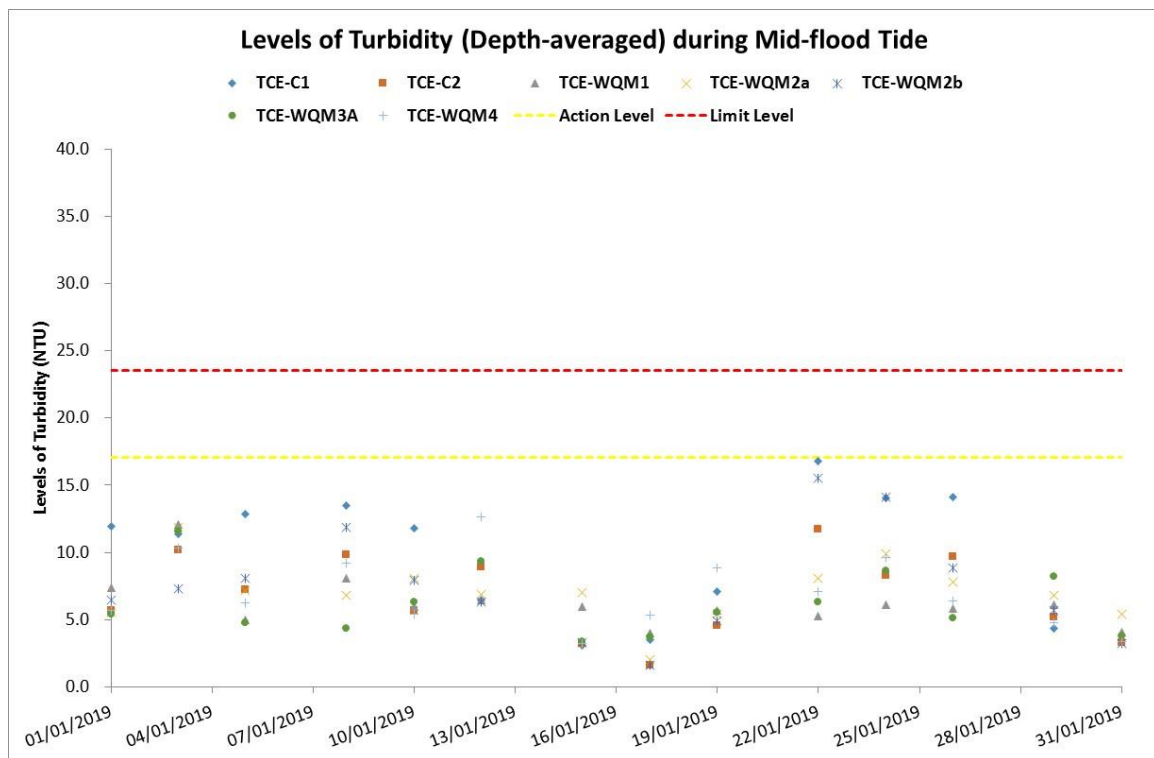


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 January 2019

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

Date: January 2019

**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 and 31 January 2019

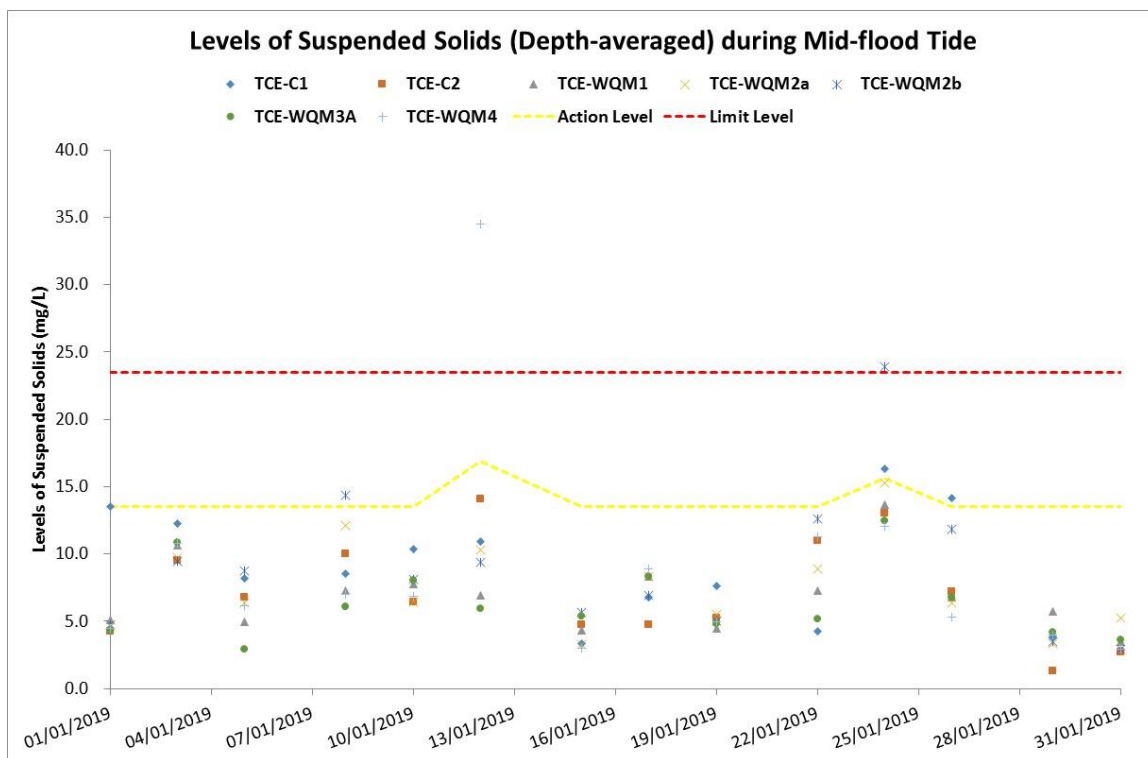


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 January 2019

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

Date: January 2019

**Environmental  
Resources  
Management**



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
01-01-2019	Mid-Ebb	TCE-C1	Cloudy	Rough	10:12	8.1	Surface	1.0	1	17.9	8.2	33.5	7.7	98.6	11.7	13.1	7.7	12.3	13.9
									2	18.0	8.2	33.5	7.7	98.6	11.7	11.9			
							Middle	4.1	1	18.0	8.2	33.5	7.7	98.4	12.0	14.0			
									2	18.0	8.2	33.5	7.7	98.4	12.1	12.8			
							Bottom	7.1	1	17.8	8.2	33.5	7.7	98.4	13.3	15.5			
									2	17.8	8.2	33.5	7.7	98.4	13.3	16.1			
		TCE-C2	Cloudy	Rough	8:17	12.1	Surface	1.0	1	18.3	8.1	33.3	7.5	96.2	5.2	4.8	7.5	5.8	5.4
									2	18.3	8.1	33.3	7.5	96.2	5.2	5.8			
							Middle	6.1	1	18.6	8.1	33.4	7.5	96.8	5.4	4.3			
									2	18.6	8.1	33.4	7.5	96.8	5.4	5.7			
							Bottom	11.1	1	18.7	7.9	33.2	7.6	98.7	6.9	5.1			
									2	18.7	7.9	33.2	7.6	98.8	6.9	6.4			
		TCE-WQM1	Cloudy	Moderate	9:31	8.2	Surface	1.0	1	17.5	8.2	32.3	7.7	97.2	6.1	3.7	7.7	9.8	4.6
									2	17.5	8.2	32.3	7.7	97.2	6.1	3.6			
							Middle	4.1	1	17.5	8.2	32.3	7.7	97.3	6.5	5.1			
									2	17.5	8.2	32.3	7.7	97.3	6.5	5.5			
							Bottom	7.2	1	16.9	8.2	32.3	7.9	98.6	16.4	4.5			
									2	16.8	8.2	32.3	7.9	98.6	17.3	5.0			
	TCE-WQM2a	Cloudy	Moderate	8:57	7.7	Surface	1.0	1	18.4	8.1	33.0	7.5	96.3	6.0	5.9	7.5	7.4	4.8	
								2	18.4	8.1	33.0	7.5	96.3	6.0	4.8				
						Middle	3.9	1	18.3	8.1	33.0	7.5	96.3	6.0	3.9				
								2	18.3	8.1	33.0	7.5	96.3	6.0	3.6				
						Bottom	6.7	1	18.3	8.1	32.9	7.5	97.0	9.9	5.8				
								2	18.3	8.1	32.9	7.5	97.1	10.4	4.9				
	TCE-WQM2b	Cloudy	Rough	8:44	10.5	Surface	1.0	1	18.4	8.1	33.3	7.4	95.5	5.1	3.4	7.4	6.0	4.1	
								2	18.4	8.1	33.3	7.4	95.5	5.0	4.1				
						Middle	5.3	1	18.6	8.1	33.2	7.4	95.5	5.3	4.0				
								2	18.6	8.1	33.2	7.4	95.6	5.3	5.1				
						Bottom	9.5	1	18.1	8.0	33.0	7.6	97.7	7.6	4.0				
								2	18.1	8.0	33.0	7.6	97.8	7.7	4.0				
	TCE-WQM3A	Cloudy	Moderate	9:08	4.1	Surface	1.0	1	17.3	8.1	32.4	7.7	97.5	5.5	3.9	7.7	5.8	4.6	
								2	17.3	8.1	32.4	7.7	97.5	5.5	4.7				
						Bottom	3.1	1	17.3	8.1	32.4	7.8	98.2	6.0	4.8				
								2	17.3	8.1	32.4	7.8	98.2	6.1	4.8				
								2	17.5	8.1	32.4	7.7	97.8	5.9	4.3				
								2	17.5	8.1	32.4	7.7	97.8	5.9	4.7				
	TCE-WQM4	Cloudy	Moderate	9:19	3.2	Surface	1.0	1	17.3	8.1	32.3	7.9	98.9	7.5	5.1	7.9	6.7	4.8	
								2	17.3	8.1	32.3	7.9	98.9	7.6	4.9				
						Bottom	2.2	1	17.3	8.1	32.3	7.9	98.9	7.5	5.1				
								2	17.3	8.1	32.3	7.9	98.9	7.6	4.9				
								2	17.3	8.1	32.3	7.9	98.9	7.6	4.9				
								2	17.3	8.1	32.3	7.9	98.9	7.6	4.9				
	Mid-Flood	TCE-C1	Cloudy	Rough	14:00	8.2	Surface	1.0	1	18.1	8.1	33.6	7.7	99.1	11.5	13.2	7.7	12.0	13.5
									2	18.1	8.1	33.6	7.7	99.1	11.5	13.1			
							Middle	4.1	1	18.0	8.1	33.5	7.7	99.2	11.6	13.7			
									2	18.0	8.1	33.5	7.7	99.2	11.7	12.3			
							Bottom	7.2	1	18.0	8.1	33.4	7.7	99.7	12.7	15.0			
									2	18.0	8.1	33.4	7.7	99.7	12.8	13.8			
		TCE-C2	Cloudy	Rough	16:24	12.0	Surface	1.0	1	19.0	8.1	33.4	7.4	96.8	4.1	4.0	7.4	5.7	4.3
									2	19.0	8.1	33.4	7.4	96.8	4.1	4.2			
							Middle	6.0	1	19.1	8.1	33.4	7.4	96.9	5.0	4.3			
									2	19.1	8.1	33.4	7.4	96.9	5.0	4.3			
							Bottom	11.0	1	19.3	8.1	33.4	7.4	98.3	7.8	4.3			
									2	19.3	8.1	33.4	7.4	98.3	8.1	4.6			
		TCE-WQM1	Cloudy	Moderate	15:11	7.9	Surface	1.0	1	17.9	8.1	32.1	7.7	98.4	5.3	5.6	7.7	7.4	5.1
									2	17.9	8.1	32.1	7.7	98.4	5.4	4.5			
							Middle	4.0	1	17.8	8.1	32.2	7.7	98.5	6.1	5.4			
									2	17.8	8.1	32.2	7.7	98.5	6.1	5.4			
							Bottom	6.9	1	17.9	8.1	32.3	7.8	99.6	10.6	5.3			
									2	17.9	8.1	32.3	7.8	99.6	10.6	4.6			
	TCE-WQM2a	Cloudy	Moderate	15:45	7.5	Surface	1.0	1	18.7	8.1	33.1	7.4	96.3	5.7	4.1	7.4	5.6	4.6	
								2	18.7	8.1	33.1	7.4	96.3	5.7	4.0				
						Middle	3.8	1	18.8	8.1	33.1	7.4	96.4	5.1	4.5				
								2	18.8	8.1	33.1	7.4	96.4	5.4	4.3				
						Bottom	6.5	1	18.6	8.1	33.1	7.4	96.2	5.7	6.0				
								2	18.6	8.1	33.1	7.4	96.3	5.8	4.9				
	TCE-WQM2b	Cloudy	Rough	15:57	10.4	Surface	1.0	1	18.7	8.1	33.4	7.4	96.6	4.6	5.3	7.4	6.5	4.7	
								2	18.7	8.1	33.4	7.4	96.6	4.5	5.2				
						Middle	5.2	1	19.1	8.1	33.3	7.4	97.3	5.5	3.3				
								2	19.1	8.1	33.3	7.4	97.3	5.4	4.3				
						Bottom	9.4	1	18.8	8.1	33.1	7.5	98.0	9.3	5.0				
								2	18.8	8.1	33.1	7.5	98.0	9.7	5.2				
	TCE-WQM3A	Cloudy	Moderate	15:34	3.9	Surface	1.0	1	17.6	8.2	32.4	7.8	98.7	5.4	3.7	7.8	5.4	4.4	
								2	17.6	8.2	32.4	7.8	98.7	5.4	4.6				
						Bottom	2.9	1	17.6	8.2	32.5	7.8	98.6	5.5	5.0				
								2	17.6	8.2	32.4	7.8	98.7	5.5	4.1				
								2	17.8	8.1	32.4	7.8	99.1	5.6	4.3				
								2	17.7	8.1	32.4	7.8	99.1	5.8	5.0				
	TCE-WQM4	Cloudy	Moderate	15:22	3.2	Surface	1.0	1	17.8	8.1	32.4	7.8	99.1	5.6	4.3	7.8	5.7	4.5	
								2	17.8	8.1	32.4	7.8	99.1	5.6	4.3				
						Bottom	2.2	1	17.7	8.1	32.4	7.8	99.1	5.8	5.0				
								2	17.7	8.1	32.4	7.8	99.2	5.8	4.4				
								2	17.7	8.1	32.4	7.8	99.2	5.8	4.4				
								2	17.7	8.1	32.4	7.8	99.2	5.8	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)							
03-01-2019	Mid-Ebb	TCE-C1	Rainy	Moderate	12:29	8.4	Surface	1.0	1	18.3	8.0	33.1	7.3	94.7	13.0	17.4	7.3	13.0	15.7							
									2	18.3	8.0	33.1	7.3	94.6	13.1	17.6										
							Middle	4.2	1	18.2	8.0	33.1	7.3	94.4	13.5	14.2										
									2	18.2	8.0	33.1	7.3	94.4	13.5	14.1										
							Bottom	7.4	1	18.2	8.0	33.1	7.4	94.7	12.5	15.8										
									2	18.2	7.9	33.1	7.4	95.5	12.6	15.1										
		TCE-C2	Cloudy	Moderate	10:18	12.8	Surface	1.0	1	19.1	8.0	33.0	7.0	90.9	7.4	5.9	6.9	8.1	6.5							
									2	19.1	8.0	33.0	7.0	90.9	7.4	6.5										
							Middle	6.4	1	19.1	8.0	33.0	6.9	90.7	7.9	6.6										
									2	19.1	8.0	33.0	6.9	90.7	7.9	6.6										
							Bottom	11.8	1	19.1	8.0	33.0	6.9	90.8	9.0	6.3										
									2	19.1	8.0	33.0	6.9	90.8	9.0	6.8										
		TCE-WQM1	Rainy	Calm	11:31	8.2	Surface	1.0	1	17.8	8.1	32.3	7.2	91.9	7.4	6.4	7.2	7.6	6.2							
									2	17.8	8.1	32.3	7.2	91.9	7.4	6.7										
							Middle	4.1	1	17.8	8.0	32.3	7.2	92.1	7.5	6.5										
									2	17.8	8.0	32.3	7.2	92.1	7.5	6.6										
							Bottom	7.2	1	17.8	8.0	32.3	7.3	92.6	8.0	5.4										
									2	17.8	8.0	32.3	7.3	92.7	8.0	5.7										
	TCE-WQM2a	Rainy	Moderate	10:59	7.4	Surface	1.0	1	18.7	8.1	32.9	7.0	91.3	8.8	7.4	7.1	9.3	7.9								
								2	18.7	8.1	32.9	7.0	91.3	8.8	7.0											
						Middle	3.7	1	18.7	8.0	32.9	7.1	91.8	9.5	8.0											
								2	18.7	8.0	32.9	7.1	91.9	9.5	8.0											
						Bottom	6.4	1	18.7	8.0	32.9	7.2	92.8	9.6	8.6											
								2	18.7	8.0	32.9	7.2	93.0	9.7	8.2											
	TCE-WQM2b	Rainy	Moderate	10:45	11.3	Surface	1.0	1	18.9	8.1	33.0	7.0	91.3	7.0	7.1	7.0	7.1	5.3								
								2	18.9	8.1	33.0	7.0	91.3	7.0	6.6											
						Middle	5.7	1	18.8	8.0	33.0	7.1	91.6	7.1	4.9											
								2	18.8	8.0	33.0	7.1	91.7	7.2	4.8											
						Bottom	10.3	1	18.8	8.0	33.0	7.2	93.1	7.3	4.1											
								2	18.8	8.0	33.0	7.2	93.3	7.3	4.3											
	TCE-WQM3A	Rainy	Calm	11:11	3.3	Surface	1.0	1	18.1	8.0	32.5	7.4	93.8	7.5	5.5	7.4	7.6	6.6								
								2	18.1	8.0	32.5	7.4	94.0	7.5	6.1											
						Bottom	2.3	1	18.1	8.0	32.5	7.4	95.1	7.8	7.6											
								2	18.1	8.0	32.5	7.4	95.2	7.7	7.2											
						TCE-WQM4	Rainy	Calm	11:23	3.1	Surface	1.0	1	18.5	8.0				32.7	7.2	93.0	7.9	4.5	7.2	8.0	4.6
												2	18.5	8.0	32.7				7.2	93.0	8.0	4.5				
			Bottom	2.1	1	18.6	8.0	32.8	7.3	94.0	8.1	4.6	7.3													
					2	18.6	8.0	32.8	7.3	94.1	8.1	4.8														
	Mid-Flood	TCE-C1	Cloudy	Moderate	15:07	8.5	Surface	1.0	1	18.1	8.0	33.1	7.4	94.9	11.1	11.6	7.4	11.4	12.2							
									2	18.1	8.0	33.1	7.4	94.9	11.2	11.4										
							Middle	4.3	1	18.1	7.9	33.1	7.4	95.1	11.4	13.0										
									2	18.1	7.9	33.1	7.4	95.1	11.5	12.2										
							Bottom	7.5	1	18.1	7.9	33.1	7.5	95.9	11.5	12.4										
									2	18.1	7.9	33.1	7.5	96.0	11.5	12.8										
		TCE-C2	Cloudy	Moderate	17:06	12.5	Surface	1.0	1	19.1	8.0	33.0	6.9	90.6	9.8	7.6	6.9	10.2	9.5							
									2	19.1	8.0	33.0	6.9	90.6	9.8	7.3										
							Middle	6.3	1	19.1	8.0	33.0	6.9	90.7	10.2	10.6										
									2	19.1	8.0	33.0	6.9	90.7	10.2	10.3										
							Bottom	11.5	1	19.1	8.0	33.0	6.9	91.1	10.5	10.3										
									2	19.1	8.0	32.9	6.9	91.2	10.6	10.9										
TCE-WQM1		Cloudy	Calm	15:49	8.0	Surface	1.0	1	17.9	8.0	32.3	7.2	92.4	12.2	10.6	7.2	12.1	10.7								
								2	17.9	8.0	32.3	7.2	92.4	12.2	10.6											
						Middle	4.0	1	17.9	7.9	32.3	7.2	92.6	12.1	9.2											
								2	17.9	7.9	32.3	7.2	92.6	12.1	9.2											
						Bottom	7.0	1	17.9	7.9	32.3	7.3	93.8	12.1	12.2											
								2	17.9	7.9	32.3	7.4	94.0	12.1	12.1											
TCE-WQM2a	Cloudy	Moderate	16:22	7.6	Surface	1.0	1	18.8	8.1	32.9	7.1	92.2	10.1	10.4	7.1	11.8	9.7									
							2	18.8	8.1	32.9	7.1	92.2	10.1	9.8												
					Middle	3.8	1	18.7	8.0	32.9	7.1	92.4	12.2	9.6												
							2	18.7	8.0	32.9	7.1	92.4	12.4	9.6												
					Bottom	6.6	1	18.7	8.0	32.9	7.1	93.1	13.0	9.8												
							2	18.7	8.0	32.9	7.2	93.3	13.2	9.2												
TCE-WQM2b	Cloudy	Moderate	16:35	11.4	Surface	1.0	1	19.2	8.1	33.0	6.9	91.2	6.9	12.4	7.0	7.3	9.4									
							2	19.2	8.1	33.0	6.9	91.2	7.0	12.6												
					Middle	5.7	1	19.2	8.0	33.0	7.0	91.8	7.4	7.8												
							2	19.2	8.0	33.0	7.0	91.9	7.3	8.0												
					Bottom	10.4	1	19.1	8.0	33.0	7.1	93.7	7.7	8.0												
							2	19.1	8.0	33.0	7.2	93.9	7.6	7.7												
TCE-WQM3A	Cloudy	Calm	16:12	3.4	Surface	1.0	1	18.5	8.0	32.7	7.2	93.7	9.2	10.6	7.2	11.6	10.9									
							2	18.5	8.0	32.7	7.2	93.9	9.3	11.0												
					Bottom	2.4	1	18.5	8.0	32.7	7.4	95.5	14.1	11.0												
							2	18.5	8.0	32.7	7.4	95.9	13.8	10.8												
					TCE-WQM4	Cloudy	Calm	15:59	3.5	Surface	1.0	1	18.5	8.0				32.7	7.1	92.6	10.2	10.8	7.1	10.3	10.8	
											2	18.5	8.0	32.7				7.2	92.7	10.2	10.2					
		Bottom	2.5	1	18.5	8.0	32.7	7.2	93.2	10.4	11.2	7.2														
				2	18.5	8.0	32.7	7.2	93.4	10.4	11.0															

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
05-01-2019	Mid-Ebb	TCE-C1	Foggy	Moderate	11:11	8.8	Surface	1.0	1	18.1	8.1	31.9	7.4	94.2	8.6	7.9	7.3	10.1	8.9
									2	18.1	8.1	31.9	7.4	94.1	8.6	8.3			
							Middle	4.4	1	18.2	8.1	32.4	7.3	93.5	9.8	7.4			
									2	18.2	8.1	32.4	7.3	93.5	9.8	6.9			
							Bottom	7.8	1	18.3	8.1	32.7	7.3	94.0	11.8	11.4			
									2	18.3	8.1	32.7	7.3	94.1	11.7	11.4			
		TCE-C2	Foggy	Moderate	13:10	13.8	Surface	1.0	1	19.1	8.1	33.0	6.9	90.9	3.1	3.4	6.9	3.8	3.5
									2	19.1	8.1	33.0	6.9	90.9	3.1	3.5			
							Middle	6.9	1	18.9	8.1	33.1	6.9	90.6	3.5	3.4			
									2	18.9	8.1	33.1	6.9	90.8	3.5	2.9			
							Bottom	12.8	1	18.8	8.1	33.1	7.0	91.5	4.8	4.1			
									2	18.8	8.1	33.1	7.0	91.7	4.8	3.7			
		TCE-WQM1	Foggy	Calm	11:51	8.2	Surface	1.0	1	18.3	8.1	32.8	7.1	91.4	4.6	3.8	7.1	4.8	4.5
									2	18.3	8.1	32.8	7.1	91.4	4.6	4.6			
							Middle	4.1	1	18.3	8.1	32.8	7.1	91.5	4.7	5.0			
									2	18.3	8.1	32.8	7.1	91.5	4.7	4.4			
							Bottom	7.2	1	18.3	8.1	32.8	7.1	91.9	5.1	4.8			
									2	18.3	8.1	32.8	7.1	92.0	4.9	4.6			
	TCE-WQM2a	Foggy	Moderate	12:29	7.0	Surface	1.0	1	18.6	8.1	33.0	7.1	92.6	8.5	9.5	7.1	11.2	10.1	
								2	18.6	8.1	33.0	7.1	92.6	8.5	9.4				
						Middle	3.5	1	18.6	8.1	33.0	7.1	92.7	11.7	9.6				
								2	18.6	8.1	33.0	7.1	92.7	11.8	9.9				
						Bottom	6.0	1	18.6	8.1	33.0	7.2	93.3	13.3	10.8				
								2	18.6	8.1	33.0	7.2	93.4	13.6	11.1				
	TCE-WQM2b	Foggy	Moderate	12:44	11.4	Surface	1.0	1	18.7	8.1	33.1	7.2	93.4	4.9	4.3	7.2	5.3	4.9	
								2	18.7	8.1	33.1	7.2	93.4	5.0	4.9				
						Middle	5.7	1	18.7	8.1	33.1	7.1	93.0	5.1	3.9				
								2	18.7	8.1	33.1	7.1	93.1	5.1	4.4				
						Bottom	10.4	1	18.6	8.1	33.1	7.2	93.5	6.0	6.2				
								2	18.6	8.1	33.1	7.2	93.6	5.8	5.8				
	TCE-WQM3A	Foggy	Calm	12:15	4.5	Surface	1.0	1	18.7	8.1	32.8	7.2	93.1	4.5	3.9	7.2	5.2	3.2	
								2	18.7	8.1	32.8	7.2	93.2	4.5	4.2				
						Bottom	3.5	1	18.6	8.1	32.9	7.2	93.5	5.9	2.6				
								2	18.6	8.1	32.9	7.2	93.6	6.0	2.2				
								1	18.7	8.1	32.9	7.2	93.7	4.8	5.7				
								2	18.7	8.1	32.9	7.2	93.7	4.8	5.4				
	TCE-WQM4	Foggy	Calm	12:05	4.3	Surface	1.0	1	18.7	8.1	32.9	7.2	93.3	7.8	4.7	7.2	6.3	5.1	
								2	18.7	8.1	32.9	7.2	93.3	7.8	4.7				
						Bottom	3.3	1	18.6	8.1	32.9	7.2	93.5	7.9	4.6				
								2	18.6	8.1	32.9	7.2	93.5	7.9	4.6				
								1	18.7	8.1	31.6	7.4	94.3	8.4	7.9				
								2	18.7	8.1	31.6	7.4	94.2	8.4	7.3				
	Mid-Flood	TCE-C1	Foggy	Moderate	8:05	8.6	Surface	1.0	1	18.0	8.1	31.6	7.4	94.3	8.4	7.9	7.3	12.9	8.2
									2	18.0	8.1	31.6	7.4	94.2	8.4	7.3			
							Middle	4.3	1	18.3	8.1	32.7	7.2	93.5	13.3	7.1			
									2	18.3	8.1	32.7	7.2	93.5	13.2	7.1			
							Bottom	7.6	1	18.3	8.1	32.8	7.2	93.7	16.4	9.8			
									2	18.3	8.1	32.8	7.3	93.8	17.6	9.8			
		TCE-C2	Foggy	Moderate	6:01	13.6	Surface	1.0	1	18.9	8.2	33.0	6.9	90.3	5.4	6.3	6.9	7.3	6.8
									2	18.9	8.2	33.0	6.9	90.3	5.2	6.1			
							Middle	6.8	1	18.8	8.1	33.0	6.9	90.6	7.3	6.4			
									2	18.8	8.1	33.0	6.9	90.6	7.4	6.4			
							Bottom	12.6	1	18.8	8.1	33.0	7.0	91.2	9.0	7.6			
									2	18.8	8.1	33.0	7.0	91.4	9.3	7.8			
		TCE-WQM1	Foggy	Calm	7:21	7.8	Surface	1.0	1	18.3	8.1	32.7	7.1	91.8	4.9	5.0	7.1	5.0	5.0
									2	18.3	8.1	32.7	7.1	91.8	5.0	4.5			
							Middle	3.9	1	18.3	8.1	32.7	7.1	91.8	5.1	4.8			
									2	18.3	8.1	32.7	7.1	91.8	5.0	4.8			
							Bottom	6.8	1	18.3	8.1	32.7	7.1	92.3	4.9	5.3			
									2	18.3	8.1	32.7	7.2	92.4	5.0	5.3			
	TCE-WQM2a	Foggy	Moderate	6:42	6.8	Surface	1.0	1	18.5	8.1	32.9	7.1	92.7	5.8	6.8	7.1	7.2	6.4	
								2	18.5	8.1	32.9	7.1	92.7	5.8	6.3				
						Middle	3.4	1	18.5	8.1	33.0	7.1	92.7	7.0	6.1				
								2	18.5	8.1	33.0	7.1	92.8	7.3	6.1				
						Bottom	5.8	1	18.5	8.1	33.0	7.2	93.2	8.7	6.3				
								2	18.5	8.1	33.0	7.2	93.4	8.3	6.5				
	TCE-WQM2b	Foggy	Moderate	6:29	10.5	Surface	1.0	1	18.5	8.1	33.0	7.2	93.0	8.3	8.2	7.2	8.1	8.8	
								2	18.5	8.1	33.0	7.2	93.0	8.2	8.3				
						Middle	5.3	1	18.5	8.1	33.0	7.2	93.1	8.1	9.1				
								2	18.5	8.1	33.0	7.2	93.1	8.1	9.4				
						Bottom	9.5	1	18.5	8.1	33.0	7.2	93.9	7.8	8.8				
								2	18.5	8.1	33.0	7.2	94.1	7.9	8.8				
	TCE-WQM3A	Foggy	Calm	6:57	4.0	Surface	1.0	1	18.6	8.1	32.8	7.1	92.4	4.6	2.8	7.1	4.8	2.9	
								2	18.6	8.1	32.8	7.1	92.4	4.6	3.0				
						Bottom	3.0	1	18.6	8.1	32.8	7.2	93.0	4.9	2.7				
								2	18.6	8.1	32.8	7.2	93.2	4.9	3.1				
								1	18.5	8.1	32.9	7.1	92.3	5.3	5.4				
								2	18.5	8.1	32.9	7.1	92.3	5.4	5.2				
	TCE-WQM4	Foggy	Calm	7:07	3.7	Surface	1.0	1	18.5	8.1	32.9	7.1	92.3	5.3	5.4	7.1	6.3	6.2	
								2	18.5	8.1	32.9	7.1	92.3	5.4	5.2				
						Bottom	2.7	1	18.6	8.1	32.9	7.2	92.9	7.1	7.1				
								2	18.6	8.1	32.9	7.2	93.0	7.3	7.0				
								1	18.6	8.1	32.9	7.2	93.0	7.3	7.0				
								2	18.6	8.1	32.9	7.2	93.0	7.3	7.0				



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
08-01-2019	Mid-Ebb	TCE-C1	Cloudy	Rough	12:55	7.9	Surface	1.0	1	18.2	8.3	29.9	7.5	94.6	7.6	8.9	7.4	9.6	9.9		
									2	18.2	8.3	30.0	7.4	94.5	8.1	9.4					
							Middle	4.0	1	18.3	8.3	30.5	7.4	94.5	9.5	10.0					
									2	18.3	8.3	30.6	7.4	94.6	9.8	10.6					
							Bottom	6.9	1	18.3	8.3	31.1	7.4	94.9	11.4	10.2					
									2	18.3	8.4	31.1	7.4	95.0	11.2	10.3					
		TCE-C2	Cloudy	Moderate	14:46	13.8	Surface	1.0	1	18.7	8.3	31.8	7.1	92.3	4.0	4.4	7.0	4.1	5.1		
									2	18.7	8.3	31.8	7.1	91.9	4.0	5.1					
							Middle	6.9	1	18.8	8.3	32.2	6.9	89.9	4.2	4.5					
									2	18.8	8.3	32.3	6.9	90.1	4.2	4.4					
							Bottom	12.8	1	18.8	8.3	32.3	7.0	91.6	4.2	5.9					
									2	18.8	8.3	32.3	7.1	92.2	4.1	6.1					
		TCE-WQM1	Cloudy	Calm	13:37	8.0	Surface	1.0	1	18.6	8.3	31.7	7.2	93.3	5.5	8.2	7.2	7.4	9.6		
									2	18.5	8.3	31.7	7.2	93.2	5.5	8.7					
							Middle	4.0	1	18.5	8.3	31.8	7.2	93.2	5.3	9.7					
									2	18.5	8.3	31.8	7.2	93.2	5.3	9.4					
							Bottom	7.0	1	18.6	8.4	31.7	7.2	93.1	11.4	10.4					
									2	18.7	8.4	31.6	7.2	93.0	11.3	10.9					
	TCE-WQM2a	Cloudy	Moderate	14:10	7.0	Surface	1.0	1	18.5	8.3	31.5	7.3	93.5	5.3	6.7	7.3	6.4	7.1			
								2	18.5	8.3	31.5	7.3	93.5	5.3	6.7						
						Middle	3.5	1	18.5	8.3	31.5	7.3	93.6	6.8	7.7						
								2	18.5	8.3	31.5	7.3	93.8	6.9	7.9						
						Bottom	6.0	1	18.4	8.3	31.5	7.5	95.8	7.1	6.9						
								2	18.3	8.3	31.6	7.5	96.3	7.0	6.7						
	TCE-WQM2b	Cloudy	Moderate	14:24	11.4	Surface	1.0	1	18.6	8.3	31.6	7.2	93.5	4.7	4.8	7.2	5.2	5.2			
								2	18.6	8.3	31.6	7.2	93.2	4.8	5.2						
						Middle	5.7	1	18.6	8.3	31.8	7.1	91.8	5.3	4.6						
								2	18.6	8.3	31.8	7.1	92.0	5.4	4.6						
						Bottom	10.4	1	18.6	8.3	31.9	7.3	93.8	5.4	6.2						
								2	18.6	8.3	31.9	7.3	94.4	5.4	6.0						
	TCE-WQM3A	Cloudy	Calm	13:59	3.3	Surface	1.0	1	18.6	8.3	31.8	7.5	96.6	4.3	12.5	7.5	4.5	12.2			
								2	18.6	8.3	31.8	7.5	96.6	4.3	13.0						
						Bottom	2.3	1	18.5	8.3	31.9	7.5	96.8	4.6	11.6						
								2	18.5	8.3	31.9	7.5	96.8	4.6	11.7						
						Surface	1.0	1	18.5	8.3	31.8	7.2	93.6	9.0	9.6				7.3	8.6	10.4
								2	18.5	8.3	31.8	7.3	93.8	8.9	9.3						
	Bottom	2.5	1	18.7	8.3	31.8	7.4	95.2	8.3	11.1											
			2	18.7	8.3	31.7	7.4	95.7	8.2	11.5											
	Surface	1.0	1	18.2	8.3	30.2	7.4	94.3	10.2	7.1	7.4	13.5	8.6								
			2	18.2	8.3	30.2	7.4	94.3	10.3	7.9											
	Middle	4.0	1	18.2	8.3	30.4	7.4	94.6	13.9	8.8											
			2	18.2	8.3	30.5	7.4	94.7	14.4	9.1											
	Bottom	6.9	1	18.2	8.3	30.6	7.5	95.7	16.1	9.5											
			2	18.2	8.3	30.6	7.5	96.1	16.1	8.9											
	TCE-C2	Cloudy	Moderate	8:52	12.6	Surface	1.0	1	18.5	8.2	31.6	7.1	91.7	7.7	8.2	7.1	9.8	10.0			
								2	18.5	8.2	31.6	7.1	91.6	8.1	8.7						
						Middle	6.3	1	18.6	8.2	31.6	7.1	91.4	10.5	10.6						
								2	18.6	8.2	31.6	7.1	91.4	10.9	11.2						
						Bottom	11.6	1	18.6	8.1	31.6	7.1	91.4	10.9	10.6						
								2	18.6	8.1	31.6	7.1	91.4	10.9	10.6						
TCE-WQM1	Cloudy	Calm	10:01	8.0	Surface	1.0	1	18.5	8.3	31.7	7.3	94.0	8.1	6.2	7.3	8.1	7.3				
							2	18.5	8.3	31.8	7.3	94.0	8.2	6.7							
					Middle	4.0	1	18.5	8.3	31.8	7.3	94.2	7.9	8.5							
							2	18.5	8.3	31.8	7.3	94.3	7.9	7.9							
					Bottom	7.0	1	18.5	8.3	31.8	7.4	95.0	8.1	7.3							
							2	18.5	8.3	31.8	7.4	95.3	8.2	7.1							
TCE-WQM2a	Cloudy	Moderate	9:24	6.8	Surface	1.0	1	18.4	8.3	31.3	7.3	93.4	6.3	9.1	7.3	6.8	12.2				
							2	18.4	8.3	31.3	7.3	93.4	6.3	9.5							
					Middle	3.4	1	18.4	8.3	31.4	7.3	93.7	7.0	9.7							
							2	18.4	8.3	31.4	7.3	93.8	7.1	9.3							
					Bottom	5.8	1	18.4	8.3	31.4	7.4	94.9	7.1	17.8							
							2	18.4	8.3	31.4	7.4	95.4	7.2	17.5							
TCE-WQM2b	Cloudy	Moderate	9:17	10.4	Surface	1.0	1	18.4	8.3	31.3	7.3	93.6	12.4	12.5	7.3	11.9	14.3				
							2	18.4	8.3	31.3	7.3	93.6	12.4	12.5							
					Middle	5.2	1	18.4	8.3	31.3	7.3	94.0	11.3	13.9							
							2	18.4	8.3	31.3	7.3	94.3	11.1	13.7							
					Bottom	9.4	1	18.4	8.3	31.4	7.5	96.0	12.1	17.0							
							2	18.3	8.3	31.4	7.5	96.5	12.0	16.4							
TCE-WQM3A	Cloudy	Calm	9:38	3.3	Surface	1.0	1	18.5	8.3	31.7	7.5	96.4	4.4	5.8	7.5	4.4	6.1				
							2	18.5	8.3	31.7	7.5	96.8	4.4	5.7							
					Bottom	2.3	1	18.1	8.3	32.0	7.7	98.2	4.3	6.4							
							2	18.0	8.3	32.1	7.7	98.3	4.4	6.5							
					Surface	1.0	1	18.5	8.3	31.6	7.3	93.4	7.7	6.8				7.3	9.2	7.0	
							2	18.5	8.3	31.6	7.3	93.5	7.4	7.3							
Bottom	2.4	1	18.4	8.3	31.7	7.3	94.1	10.9	7.2												
		2	18.4	8.3	31.7	7.3	94.4	10.8	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)
10-01-2019	Mid-Ebb	TCE-C1	Fine	Rough	14:06	7.5	Surface	1.0	1	18.4	8.3	30.3	7.4	94.4	7.9	5.4	7.4	8.9	5.3
									2	18.4	8.3	30.4	7.4	94.3	7.9	4.9			
							Middle	3.8	1	18.4	8.3	30.6	7.4	94.3	9.0	4.6			
									2	18.4	8.3	30.7	7.4	94.2	9.0	5.4			
							Bottom	6.5	1	18.4	8.3	30.9	7.4	94.3	9.7	6.0			
									2	18.4	8.3	30.9	7.4	94.3	9.7	5.2			
		TCE-C2	Fine	Rough	16:02	11.6	Surface	1.0	1	18.8	8.3	31.6	6.9	89.9	3.1	5.4	6.9	4.7	4.9
									2	18.8	8.2	31.7	6.9	89.7	3.1	5.7			
							Middle	5.8	1	18.8	8.2	31.9	6.9	89.6	4.6	4.3			
									2	18.8	8.2	32.0	6.9	89.7	4.6	4.7			
							Bottom	10.6	1	18.8	8.3	32.0	7.0	90.4	6.5	4.5			
									2	18.8	8.3	32.0	7.0	90.5	6.4	4.7			
		TCE-WQM1	Fine	Rough	14:48	10.1	Surface	1.0	1	18.7	8.3	31.1	7.3	93.8	4.7	3.9	7.3	4.9	4.9
									2	18.7	8.3	31.1	7.3	93.8	4.7	4.3			
							Middle	5.1	1	18.7	8.3	31.1	7.3	93.8	4.9	5.6			
									2	18.7	8.3	31.1	7.3	93.8	4.9	5.5			
							Bottom	9.1	1	18.7	8.3	31.1	7.3	93.8	5.1	5.1			
									2	18.7	8.3	31.1	7.3	93.8	5.1	5.0			
		TCE-WQM2a	Fine	Rough	15:24	8.5	Surface	1.0	1	18.6	8.3	31.0	7.3	93.2	5.1	5.1	7.3	6.3	5.7
									2	18.6	8.3	31.0	7.3	93.2	5.1	5.8			
							Middle	4.3	1	18.6	8.3	31.0	7.3	93.1	5.3	5.7			
									2	18.6	8.3	31.0	7.3	93.2	5.3	5.6			
							Bottom	7.5	1	18.6	8.3	31.0	7.2	93.2	8.5	6.1			
									2	18.6	8.3	31.0	7.3	93.3	8.5	6.0			
	TCE-WQM2b	Fine	Rough	15:38	11.3	Surface	1.0	1	18.7	8.3	31.1	7.2	92.5	4.3	4.5	7.2	4.4	4.5	
								2	18.7	8.3	31.2	7.2	92.4	4.3	4.1				
						Middle	5.7	1	18.7	8.3	31.2	7.2	92.5	4.4	4.4				
								2	18.7	8.3	31.3	7.2	92.5	4.4	4.2				
						Bottom	10.3	1	18.7	8.3	31.3	7.2	93.4	4.5	4.7				
								2	18.7	8.3	31.3	7.3	93.6	4.5	4.8				
	TCE-WQM3A	Fine	Rough	15:13	4.2	Surface	1.0	1	18.8	8.3	31.4	7.3	94.6	6.5	5.8	7.3	6.6	6.2	
								2	18.8	8.3	31.4	7.3	94.6	6.5	5.3				
						Bottom	3.2	1	18.8	8.3	31.4	7.3	94.7	6.6	7.2				
								2	18.8	8.3	31.4	7.3	94.7	6.7	6.5				
								1	18.7	8.3	31.3	7.3	93.9	5.0	4.7				
								2	18.7	8.3	31.3	7.3	93.9	5.0	5.4				
	Mid-Flood	TCE-C1	Fine	Rough	11:38	7.9	Surface	1.0	1	18.3	8.3	30.2	7.4	94.8	8.3	10.3	7.4	11.8	10.4
									2	18.3	8.3	30.1	7.4	94.8	8.3	10.7			
							Middle	4.0	1	18.4	8.3	30.7	7.4	94.7	11.6	9.4			
									2	18.4	8.3	30.7	7.4	94.8	11.6	10.7			
							Bottom	6.9	1	18.4	8.3	30.7	7.4	95.1	15.5	10.6			
									2	18.4	8.3	30.7	7.5	95.4	15.5	10.6			
		TCE-C2	Fine	Rough	9:32	12.5	Surface	1.0	1	18.6	8.2	31.3	7.1	91.4	5.3	5.5	7.1	5.7	6.4
									2	18.6	8.2	31.3	7.1	91.4	5.3	5.8			
							Middle	6.3	1	18.6	8.2	31.3	7.1	91.3	5.8	6.3			
									2	18.6	8.2	31.3	7.1	91.3	5.8	5.7			
							Bottom	11.5	1	18.6	8.2	31.3	7.1	91.4	5.9	7.9			
									2	18.6	8.2	31.3	7.1	91.4	5.9	7.4			
		TCE-WQM1	Fine	Rough	10:49	8.5	Surface	1.0	1	18.6	8.3	31.2	7.3	94.1	5.9	8.9	7.3	6.0	7.8
									2	18.6	8.3	31.2	7.3	94.1	5.9	8.6			
							Middle	4.3	1	18.6	8.3	31.2	7.3	94.3	6.0	7.7			
									2	18.6	8.3	31.2	7.3	94.4	6.0	7.7			
							Bottom	7.5	1	18.6	8.3	31.2	7.4	94.8	6.1	7.1			
									2	18.6	8.3	31.3	7.4	94.9	6.1	6.7			
		TCE-WQM2a	Fine	Rough	10:10	7.2	Surface	1.0	1	18.5	8.3	30.8	7.3	92.9	4.8	5.5	7.2	8.1	6.5
									2	18.5	8.3	30.8	7.3	92.9	4.8	5.8			
							Middle	3.6	1	18.5	8.3	31.0	7.2	92.5	5.5	6.6			
									2	18.5	8.3	31.1	7.2	92.6	5.5	6.1			
							Bottom	6.2	1	18.5	8.3	31.2	7.2	92.9	14.0	7.5			
									2	18.5	8.3	31.2	7.2	93.1	14.0	7.3			
	TCE-WQM2b	Fine	Rough	9:57	9.8	Surface	1.0	1	18.5	8.3	31.0	7.2	92.6	6.4	8.3	7.2	8.0	8.2	
								2	18.5	8.3	31.0	7.2	92.6	6.4	7.6				
						Middle	4.9	1	18.5	8.3	31.0	7.2	92.6	8.5	8.0				
								2	18.5	8.3	31.0	7.2	92.7	8.5	8.3				
						Bottom	8.8	1	18.5	8.3	31.0	7.3	93.1	9.0	8.1				
								2	18.5	8.3	31.0	7.3	93.2	9.0	8.6				
	TCE-WQM3A	Fine	Rough	10:24	3.3	Surface	1.0	1	18.6	8.3	31.3	7.2	92.9	5.4	7.8	7.2	6.4	8.0	
								2	18.6	8.3	31.3	7.3	93.4	5.4	8.1				
						Bottom	2.3	1	18.6	8.3	31.3	7.4	94.8	7.3	8.5				
								2	18.6	8.3	31.4	7.4	95.4	7.3	7.7				
								1	18.6	8.3	31.4	7.2	92.9	5.4	6.8				
								2	18.6	8.3	31.4	7.2	93.3	5.4	6.9				

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
12-01-2019	Mid-Ebb	TCE-C1	Foggy	Moderate	15:29	8.7	Surface	1.0	1	21.3	8.2	28.6	7.5	99.6	7.9	15.4	7.5	8.5	11.2
									2	21.3	8.2	28.6	7.5	99.5	8.6	15.1			
							Middle	4.4	1	24.2	8.2	28.3	7.4	104.1	5.3	9.5			
									2	24.2	8.2	28.3	7.4	104.1	5.3	9.1			
							Bottom	7.7	1	19.3	8.3	30.3	7.4	95.7	12.0	9.0			
									2	19.3	8.3	30.3	7.4	95.7	12.0	9.2			
		TCE-C2	Foggy	Moderate	17:26	12.3	Surface	1.0	1	19.4	8.2	30.2	7.3	95.3	3.9	6.3	7.3	4.0	7.1
									2	19.4	8.2	30.2	7.3	95.3	3.9	5.5			
							Middle	6.2	1	19.3	8.2	30.3	7.3	95.1	3.9	5.7			
									2	19.3	8.2	30.3	7.3	95.1	3.8	6.0			
							Bottom	11.3	1	19.2	8.2	31.0	7.2	93.3	4.2	9.6			
									2	19.2	8.2	31.0	7.2	93.3	4.1	9.4			
		TCE-WQM1	Foggy	Moderate	16:16	8.2	Surface	1.0	1	19.8	8.2	30.1	7.4	96.4	7.4	7.3	7.3	7.5	8.2
									2	19.8	8.2	30.1	7.4	96.4	7.5	7.8			
							Middle	4.1	1	19.9	8.2	30.0	7.3	95.4	7.5	8.6			
									2	19.9	8.2	30.0	7.3	95.4	7.4	7.8			
							Bottom	7.2	1	20.0	8.2	30.2	7.3	95.8	7.7	8.6			
									2	20.0	8.2	30.2	7.3	95.8	7.4	8.8			
	TCE-WQM2a	Foggy	Moderate	16:50	7.5	Surface	1.0	1	19.4	8.2	29.5	7.4	96.1	5.1	8.4	7.4	8.3	14.6	
								2	19.4	8.2	29.5	7.4	96.1	5.1	8.7				
						Middle	3.8	1	19.3	8.2	29.5	7.3	94.0	5.4	9.2				
								2	19.3	8.2	29.5	7.3	93.9	5.4	10.2				
						Bottom	6.5	1	19.2	8.2	30.2	7.2	93.7	14.4	25.5				
								2	19.2	8.2	30.2	7.2	93.7	14.4	25.4				
	TCE-WQM2b	Foggy	Moderate	17:02	8.9	Surface	1.0	1	19.3	8.2	29.3	7.4	95.9	4.5	6.8	7.4	5.1	6.5	
								2	19.3	8.2	29.3	7.4	95.9	4.5	7.2				
						Middle	4.5	1	19.2	8.2	29.5	7.4	95.4	5.0	6.5				
								2	19.2	8.2	29.5	7.4	95.4	5.0	6.6				
						Bottom	7.9	1	19.2	8.2	29.6	7.4	95.4	5.7	6.0				
								2	19.2	8.2	29.6	7.4	95.4	5.7	6.1				
	TCE-WQM3A	Foggy	Moderate	16:40	4.3	Surface	1.0	1	19.7	8.3	29.4	7.6	98.2	3.8	7.7	7.6	5.9	7.0	
								2	19.7	8.3	29.4	7.6	98.3	3.8	7.1				
						Bottom	3.3	1	19.8	8.3	29.5	7.5	98.2	7.8	6.3				
								2	19.8	8.3	29.5	7.5	98.2	8.1	6.9				
								1	19.4	8.3	29.9	7.5	97.6	5.9	5.5				
								2	19.4	8.3	29.9	7.5	97.6	6.0	5.3				
	TCE-WQM4	Foggy	Moderate	16:28	3.5	Surface	1.0	1	19.6	8.3	29.9	7.5	97.4	8.2	5.9	7.5	7.2	5.5	
								2	19.6	8.3	29.9	7.5	97.4	8.7	5.2				
						Bottom	2.5	1	19.6	8.3	29.9	7.5	97.4	8.2	5.9				
								2	19.6	8.3	29.9	7.5	97.4	8.7	5.2				
								1	19.3	8.3	28.5	7.6	96.9	5.3	11.4				
								2	19.3	8.3	28.5	7.6	96.9	5.2	12.7				
	Mid-Flood	TCE-C1	Foggy	Moderate	12:54	8.4	Surface	1.0	1	19.3	8.3	28.5	7.6	96.9	5.3	11.4	7.5	6.5	11.0
									2	19.3	8.3	28.5	7.6	96.9	5.2	12.7			
							Middle	4.2	1	19.6	8.3	28.2	7.5	96.5	7.7	10.9			
									2	19.7	8.3	28.1	7.5	96.7	7.8	11.4			
							Bottom	7.4	1	20.0	8.3	29.2	7.5	97.5	6.3	9.8			
									2	20.0	8.3	29.2	7.5	97.5	6.4	9.5			
		TCE-C2	Foggy	Moderate	10:34	12.1	Surface	1.0	1	19.0	8.2	29.9	7.2	93.2	5.3	19.6	7.2	8.9	14.1
									2	19.0	8.2	29.9	7.2	93.0	5.4	19.9			
Middle							6.1	1	19.0	8.2	30.2	7.2	92.4	8.1	10.1				
								2	19.0	8.2	30.2	7.2	92.3	8.6	12.3				
Bottom							11.1	1	19.0	8.2	30.6	7.1	92.2	12.9	11.0				
								2	19.0	8.2	30.6	7.1	92.3	13.2	11.5				
TCE-WQM1		Foggy	Moderate	11:45	8.0	Surface	1.0	1	19.5	8.3	30.1	7.4	95.9	6.1	8.9	7.4	6.4	6.9	
								2	19.5	8.3	30.1	7.4	95.9	6.0	9.2				
						Middle	4.0	1	19.5	8.3	30.1	7.4	96.0	6.2	5.7				
								2	19.5	8.3	30.1	7.4	96.0	6.3	5.7				
						Bottom	7.0	1	19.5	8.3	30.2	7.4	96.2	7.1	5.7				
								2	19.5	8.3	30.2	7.4	96.2	6.9	6.4				
TCE-WQM2a	Foggy	Moderate	11:11	7.4	Surface	1.0	1	19.2	8.2	28.8	7.5	96.2	4.2	13.1	7.5	6.9	10.3		
							2	19.2	8.2	28.8	7.5	96.2	4.2	13.0					
					Middle	3.7	1	19.1	8.2	28.8	7.5	96.4	5.1	9.6					
							2	19.1	8.2	28.8	7.5	96.4	5.1	8.8					
					Bottom	6.4	1	19.0	8.2	29.5	7.5	96.1	11.2	8.4					
							2	19.0	8.2	29.5	7.5	96.1	11.5	8.7					
TCE-WQM2b	Foggy	Moderate	10:56	8.9	Surface	1.0	1	19.0	8.2	29.4	7.4	94.9	5.5	9.8	7.4	6.3	9.4		
							2	19.0	8.2	29.4	7.4	94.9	5.5	10.6					
					Middle	4.5	1	19.0	8.2	29.4	7.4	95.1	4.9	9.7					
							2	19.0	8.2	29.4	7.4	95.0	4.8	9.6					
					Bottom	7.9	1	18.9	8.2	29.6	7.4	95.2	8.6	8.0					
							2	18.9	8.2	29.6	7.4	95.2	8.7	8.6					
TCE-WQM3A	Foggy	Moderate	11:22	4.2	Surface	1.0	1	19.1	8.3	29.2	7.5	96.1	5.9	4.5	7.5	9.3	6.0		
							2	19.1	8.3	29.2	7.5	96.1	5.9	4.1					
					Bottom	3.2	1	19.2	8.2	29.1	7.5	96.4	12.8	7.3					
							2	19.2	8.2	29.1	7.5	96.4	12.7	8.0					
							1	19.1	8.3	29.6	7.4	95.7	7.2	12.8					
							2	19.1	8.3	29.6	7.4	95.7	7.1	12.7					
TCE-WQM4	Foggy	Moderate	11:34	3.6	Surface	1.0	1	19.1	8.3	29.6	7.4	95.7	7.1	12.7	7.4	12.6	34.5		
							2	19.1	8.3	29.6	7.4	95.7	7.1	12.7					
					Bottom	2.6	1	19.1	8.3	29.8	7.4	95.2	18.1	59.1					
							2	19.1	8.3	29.8	7.4	95.3	18.1	53.3					
							1	19.1	8.3	29.8	7.4	95.3	18.1	53.3					
							2	19.1	8.3	29.8	7.4	95.3	18.1	53.3					

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)		
15-01-2019	Mid-Ebb	TCE-C1	Rainy	Moderate	7:35	9.0	Surface	1.0	1	18.9	8.3	29.4	7.4	94.3	2.5	4.8	7.3	3.6	4.4		
									2	18.9	8.3	29.4	7.3	94.1	2.7	4.3					
							Middle	4.5	1	18.9	8.3	29.8	7.3	93.6	3.9	3.6					
									2	18.9	8.3	29.8	7.3	93.7	4.1	3.9					
							Bottom	8.0	1	18.9	8.3	29.8	7.3	94.3	4.3	4.8					
									2	18.9	8.3	29.8	7.4	94.6	4.0	5.0					
		TCE-C2	Rainy	Moderate	5:30	11.5	Surface	1.0	1	19.1	8.2	29.2	7.1	90.6	2.5	4.0	7.0	2.8	4.3		
									2	19.1	8.2	29.2	7.0	90.5	2.5	4.6					
							Middle	5.8	1	19.2	8.2	29.4	6.9	89.4	2.8	4.0					
									2	19.2	8.2	29.5	6.9	89.4	2.8	4.4					
							Bottom	10.5	1	19.2	8.1	29.5	7.0	89.7	3.0	4.3					
									2	19.2	8.1	29.5	7.0	89.8	2.9	4.4					
		TCE-WQM1	Rainy	Calm	6:44	8.2	Surface	1.0	1	19.2	8.2	29.3	7.2	93.4	3.6	5.6	7.2	5.6	4.8		
									2	19.2	8.2	29.3	7.2	93.3	3.7	5.8					
							Middle	4.1	1	19.1	8.2	29.4	7.2	92.8	5.6	4.2					
									2	19.1	8.2	29.4	7.2	92.7	6.0	3.9					
							Bottom	7.2	1	19.1	8.2	29.4	7.2	92.8	7.3	4.5					
									2	19.1	8.2	29.4	7.2	92.9	7.2	4.9					
	TCE-WQM2a	Rainy	Moderate	6:11	6.6	Surface	1.0	1	19.3	8.2	29.2	7.3	93.7	6.0	5.0	7.3	6.5	6.0			
								2	19.3	8.2	29.2	7.3	93.7	6.0	4.6						
						Middle	3.3	1	19.3	8.2	29.2	7.3	94.0	6.7	5.8						
								2	19.3	8.2	29.2	7.3	94.2	6.8	5.8						
						Bottom	5.6	1	19.3	8.2	29.2	7.4	94.8	6.7	7.6						
								2	19.3	8.2	29.2	7.4	95.1	6.6	7.4						
	TCE-WQM2b	Rainy	Moderate	6:00	10.6	Surface	1.0	1	19.3	8.2	28.6	7.2	92.7	2.5	5.9	7.2	2.6	5.1			
								2	19.3	8.2	28.7	7.2	92.6	2.5	5.2						
						Middle	5.3	1	19.1	8.2	28.8	7.2	92.0	2.7	6.1						
								2	19.1	8.2	28.8	7.2	92.0	2.7	5.5						
						Bottom	9.6	1	19.1	8.2	28.9	7.2	92.3	2.7	3.7						
								2	19.1	8.2	28.9	7.2	92.5	2.7	4.0						
	TCE-WQM3A	Rainy	Moderate	6:23	3.2	Surface	1.0	1	19.3	8.3	29.2	7.3	93.8	3.9	4.8	7.3	4.2	5.3			
								2	19.3	8.3	29.2	7.3	94.0	4.1	5.3						
						Bottom	2.2	1	19.3	8.3	29.2	7.4	95.5	4.3	5.5						
								2	19.3	8.3	29.2	7.5	96.1	4.3	5.6						
						Surface	1.0	1	19.3	8.2	29.2	7.3	93.6	4.8	3.8				7.3	5.2	3.6
								2	19.3	8.2	29.3	7.3	93.6	5.1	3.5						
	Bottom	2.1	1	19.3	8.2	29.3	7.3	94.0	5.5	3.7											
			2	19.3	8.2	29.3	7.3	94.1	5.2	3.3											
	Surface	1.0	1	19.0	8.3	29.0	7.4	95.2	2.4	2.9	7.3	3.1	3.3								
			2	19.0	8.3	29.1	7.4	94.9	2.6	2.5											
	Middle	4.4	1	19.0	8.3	29.7	7.3	93.6	3.3	3.3											
			2	19.0	8.3	29.8	7.3	93.5	3.5	2.8											
	Bottom	7.8	1	18.9	8.3	29.8	7.3	93.8	3.3	3.9											
			2	18.9	8.3	29.8	7.3	94.0	3.4	4.6											
	TCE-C2	Cloudy	Moderate	13:51	12.0	Surface	1.0	1	19.2	8.2	29.9	6.9	88.5	2.4	3.8	6.8	3.2	4.8			
								2	19.2	8.2	29.9	6.8	88.2	2.5	4.1						
						Middle	6.0	1	19.2	8.2	30.3	6.8	87.7	3.4	4.5						
								2	19.2	8.2	30.3	6.8	87.8	3.7	5.1						
						Bottom	11.0	1	19.2	8.2	30.3	6.9	88.9	3.7	5.6						
								2	19.2	8.2	30.3	6.9	89.0	3.7	5.4						
	TCE-WQM1	Rainy	Calm	12:38	9.1	Surface	1.0	1	19.3	8.2	29.3	7.2	93.1	5.0	3.6	7.2	6.0	4.3			
								2	19.3	8.2	29.3	7.2	93.0	5.3	3.6						
						Middle	4.6	1	19.3	8.2	29.4	7.2	92.8	6.4	3.6						
								2	19.2	8.2	29.4	7.2	92.8	6.4	4.1						
						Bottom	8.1	1	19.2	8.2	29.4	7.2	92.9	6.5	5.6						
								2	19.2	8.2	29.4	7.2	93.0	6.4	5.4						
	TCE-WQM2a	Rainy	Calm	13:12	6.1	Surface	1.0	1	19.2	8.2	29.2	7.1	91.3	7.3	2.9	7.1	7.0	3.3			
								2	19.2	8.2	29.2	7.1	91.3	7.3	2.6						
						Middle	3.1	1	19.2	8.2	29.3	7.1	91.3	6.2	2.8						
								2	19.2	8.2	29.3	7.1	91.3	6.3	3.2						
						Bottom	5.1	1	19.2	8.2	29.3	7.1	91.7	7.5	4.2						
								2	19.2	8.2	29.3	7.1	91.9	7.4	3.9						
	TCE-WQM2b	Cloudy	Moderate	13:23	10.2	Surface	1.0	1	19.2	8.2	29.2	7.0	90.5	3.0	5.8	7.0	3.3	5.7			
								2	19.2	8.2	29.3	7.0	90.4	3.0	5.6						
						Middle	5.1	1	19.2	8.2	29.4	7.0	90.2	3.4	5.3						
								2	19.2	8.2	29.4	7.0	90.3	3.5	5.1						
						Bottom	9.2	1	19.2	8.2	29.4	7.0	90.8	3.5	6.3						
								2	19.2	8.2	29.4	7.1	90.9	3.4	5.9						
	TCE-WQM3A	Rainy	Calm	13:00	3.2	Surface	1.0	1	19.2	8.3	29.2	7.2	93.0	3.4	4.9	7.2	3.4	5.4			
								2	19.2	8.3	29.2	7.2	93.2	3.4	3.0						
						Bottom	2.2	1	19.2	8.3	29.2	7.4	94.7	3.4	7.1						
								2	19.2	8.3	29.2	7.4	95.1	3.4	6.6						
						Surface	1.0	1	19.2	8.2	29.2	7.2	92.8	3.1	2.9				7.2	3.2	3.0
								2	19.2	8.2	29.2	7.2	92.9	3.1	2.2						
	Bottom	2.1	1	19.2	8.2	29.2	7.3	94.3	3.4	3.7											
			2	19.2	8.2	29.2	7.4	94.7	3.2	3.2											

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)
17-01-2019	Mid-Ebb	TCE-C1	Cloudy	Moderate	11:04	8.3	Surface	1.0	1	18.9	8.2	31.6	7.9	101.2	4.1	7.9	7.8	4.5	8.4
									2	18.9	8.2	31.6	7.9	101.3	4.1	8.3			
							Middle	4.2	1	18.9	8.2	31.6	7.8	99.9	4.4	8.6			
									2	18.9	8.2	31.6	7.8	99.8	4.4	9.2			
							Bottom	7.3	1	18.9	8.2	31.6	7.7	99.3	4.9	8.0			
									2	18.9	8.2	31.6	7.7	99.2	4.9	8.3			
		TCE-C2	Sunny	Moderate	9:09	14.2	Surface	1.0	1	19.1	8.1	30.9	7.3	93.2	1.1	7.5	7.1	1.3	6.1
									2	19.1	8.1	30.8	7.3	93.1	1.1	6.2			
							Middle	7.1	1	19.2	8.1	31.7	6.9	90.1	1.3	5.7			
									2	19.2	8.1	31.7	6.9	90.1	1.3	6.0			
							Bottom	13.2	1	19.2	8.1	31.7	7.0	90.5	1.5	5.8			
									2	19.2	8.1	31.7	7.0	90.7	1.4	5.5			
		TCE-WQM1	Cloudy	Calm	10:25	7.5	Surface	1.0	1	19.2	8.2	29.6	7.5	96.2	2.9	8.8	7.5	6.2	7.2
									2	19.2	8.2	29.6	7.5	96.1	2.9	8.0			
							Middle	3.8	1	19.1	8.2	29.5	7.5	96.1	4.1	7.2			
								2	19.1	8.2	29.5	7.5	96.1	4.2	7.3				
	Bottom						6.5	1	19.1	8.2	29.5	7.6	96.4	11.7	6.0				
								2	19.1	8.2	29.5	7.6	96.4	11.7	6.0				
	TCE-WQM2a	Cloudy	Moderate	9:50	7.2	Surface	1.0	1	19.3	8.2	29.8	7.4	94.1	4.7	6.4	7.3	3.7	7.9	
								2	19.3	8.2	29.8	7.4	94.1	4.7	7.1				
						Middle	3.6	1	19.3	8.2	30.1	7.2	92.5	3.0	7.5				
								2	19.3	8.2	30.1	7.2	92.3	3.1	7.7				
						Bottom	6.2	1	19.3	8.1	31.4	6.9	89.2	3.3	9.1				
								2	19.3	8.1	31.4	6.9	89.3	3.6	9.5				
	TCE-WQM2b	Cloudy	Moderate	9:39	10.9	Surface	1.0	1	19.3	8.2	30.3	7.3	93.3	1.9	9.4	7.2	1.8	8.3	
								2	19.3	8.2	30.3	7.3	93.1	1.9	10.1				
						Middle	5.5	1	19.1	8.2	30.6	7.1	92.1	2.0	7.9				
								2	19.1	8.2	30.6	7.1	92.0	2.0	7.1				
						Bottom	9.9	1	19.1	8.1	31.5	7.0	90.6	1.5	7.7				
								2	19.1	8.1	31.5	7.0	90.8	1.5	7.6				
	TCE-WQM3A	Cloudy	Calm	10:02	3.7	Surface	1.0	1	19.3	8.2	29.2	7.5	95.8	2.7	8.6	7.5	2.7	8.9	
								2	19.3	8.2	29.2	7.5	95.9	2.7	8.4				
						Bottom	2.7	1	19.3	8.2	29.3	7.6	96.1	2.7	9.0				
								2	19.3	8.2	29.3	7.6	96.2	2.7	9.6				
								1	19.3	8.2	29.5	7.6	96.7	7.9	8.9				
								2	19.3	8.2	29.5	7.6	96.7	7.8	8.9				
	TCE-WQM4	Cloudy	Calm	10:13	3.3	Surface	1.0	1	19.3	8.2	29.5	7.6	97.0	6.6	8.9	7.6	6.9	9.1	
								2	19.3	8.2	29.5	7.6	97.1	5.3	9.6				
						Bottom	2.3	1	19.3	8.2	29.5	7.6	97.0	6.6	8.9				
								2	19.3	8.2	29.5	7.6	97.1	5.3	9.6				
								1	19.3	8.2	29.5	7.6	97.0	6.6	8.9				
								2	19.3	8.2	29.5	7.6	97.1	5.3	9.6				
	Mid-Flood	TCE-C1	Sunny	Moderate	13:27	8.3	Surface	1.0	1	19.0	8.3	30.9	7.9	101.4	2.9	5.3	7.8	3.5	6.8
									2	19.0	8.3	31.0	7.9	101.2	2.9	5.8			
							Middle	4.2	1	19.0	8.3	31.6	7.8	100.4	3.5	6.4			
									2	19.0	8.3	31.6	7.8	100.3	3.7	6.7			
							Bottom	7.3	1	18.9	8.3	31.7	7.8	100.0	4.2	8.7			
									2	18.9	8.3	31.7	7.8	100.0	4.1	8.0			
		TCE-C2	Sunny	Moderate	15:53	12.5	Surface	1.0	1	19.2	8.1	31.7	7.0	91.6	1.2	7.1	7.0	1.6	4.8
									2	19.2	8.1	31.7	7.0	91.6	1.2	6.5			
Middle							6.3	1	19.2	8.1	31.7	7.0	91.0	1.8	4.2				
								2	19.2	8.1	31.7	7.0	91.0	1.8	3.9				
Bottom							11.5	1	19.2	8.1	31.7	7.0	91.5	1.8	3.4				
								2	19.2	8.1	31.7	7.0	91.5	1.8	3.4				
TCE-WQM1		Sunny	Calm	14:34	8.7	Surface	1.0	1	19.3	8.2	29.5	7.8	99.9	3.7	8.0	7.7	4.0	8.3	
								2	19.3	8.2	29.5	7.8	99.8	3.7	8.8				
						Middle	4.4	1	19.3	8.2	29.5	7.7	98.8	4.1	8.5				
							2	19.2	8.2	29.5	7.7	98.7	4.1	8.8					
	Bottom					7.7	1	19.2	8.2	29.5	7.8	99.4	4.3	7.7					
							2	19.2	8.2	29.5	7.8	99.8	4.3	8.2					
TCE-WQM2a	Sunny	Moderate	15:13	7.8	Surface	1.0	1	19.2	8.2	30.0	7.5	96.6	2.7	8.4	7.4	2.0	8.3		
							2	19.2	8.2	30.0	7.5	96.6	2.7	9.2					
					Middle	3.9	1	19.2	8.2	30.5	7.3	94.1	1.6	7.8					
							2	19.2	8.2	30.5	7.2	93.9	1.6	7.9					
					Bottom	6.8	1	19.2	8.2	30.9	7.2	93.5	1.7	8.6					
							2	19.2	8.2	30.9	7.2	93.8	1.7	8.0					
TCE-WQM2b	Sunny	Moderate	15:25	11.6	Surface	1.0	1	19.2	8.2	31.0	7.2	93.3	1.1	6.4	7.1	1.6	6.9		
							2	19.2	8.2	31.0	7.2	93.2	1.1	6.9					
					Middle	5.8	1	19.2	8.1	31.4	7.0	91.2	1.8	6.1					
							2	19.2	8.1	31.4	7.0	91.2	1.8	6.1					
					Bottom	10.6	1	19.2	8.1	31.5	7.1	92.1	1.9	8.3					
							2	19.2	8.1	31.5	7.1	92.3	1.9	7.8					
TCE-WQM3A	Sunny	Calm	15:01	4.5	Surface	1.0	1	19.2	8.2	29.7	7.6	98.2	2.9	8.4	7.6	3.7	8.3		
							2	19.2	8.2	29.7	7.6	98.2	2.9	8.2					
					Bottom	3.5	1	19.2	8.2	29.9	7.6	97.3	4.5	8.5					
							2	19.2	8.2	29.9	7.6	97.3	4.5	8.2					
							1	19.2	8.2	29.7	7.7	99.2	3.9	9.2					
							2	19.2	8.2	29.7	7.7	99.1	3.9	8.3					
TCE-WQM4	Sunny	Calm	14:50	4.2	Surface	1.0	1	19.2	8.2	30.0	7.6	98.1	6.7	8.9	7.7	5.4	8.9		
							2	19.2	8.2	30.0	7.6	98.1	6.7	8.9					
					Bottom	3.2	1	19.2	8.2	30.0	7.6	98.1	6.7	8.9					
							2	19.2	8.2	30.0	7.6	98.7	6.9	9.1					
							1	19.2	8.2	30.0	7.7	98.7	6.9	9.1					
							2	19.2	8.2	30.0	7.7	98.7	6.9	9.1					

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)		
19-01-2019	Mid-Ebb	TCE-C1	Fine	Moderate	12:51	7.9	Surface	1.0	1	18.2	8.2	31.6	7.9	101.3	6.4	5.6	7.8	8.6	4.4		
									2	18.1	8.2	31.6	7.9	100.9	6.5	4.1					
							Middle	4.0	1	17.9	8.2	31.9	7.8	99.4	8.8	5.7					
									2	17.9	8.2	31.9	7.8	99.4	9.5	4.4					
							Bottom	6.9	1	17.9	8.2	32.0	7.8	99.8	10.4	3.0					
									2	17.9	8.2	32.0	7.8	100.0	10.1	3.7					
		TCE-C2	Fine	Moderate	10:25	12.0	Surface	1.0	1	18.5	8.1	31.9	7.1	92.1	3.9	3.1	7.1	3.9	3.3		
									2	18.5	8.1	31.9	7.1	92.1	3.9	5.0					
							Middle	6.0	1	18.5	8.1	32.0	7.1	91.8	3.9	3.8					
									2	18.5	8.1	32.0	7.1	91.8	3.9	2.7					
							Bottom	11.0	1	18.5	8.1	32.0	7.1	92.2	4.0	2.9					
									2	18.5	8.1	32.0	7.2	92.4	3.9	2.4					
		TCE-WQM1	Fine	Moderate	11:47	8.0	Surface	1.0	1	18.2	8.1	31.2	7.5	95.5	5.2	3.3	7.5	6.1	3.3		
									2	18.2	8.1	31.2	7.5	95.5	5.1	2.4					
							Middle	4.0	1	18.2	8.1	31.2	7.5	95.4	5.2	2.7					
									2	18.2	8.1	31.2	7.5	95.4	5.2	4.1					
							Bottom	7.0	1	18.2	8.1	31.2	7.5	95.3	7.7	3.1					
									2	18.2	8.1	31.2	7.5	95.3	8.1	4.4					
		TCE-WQM2a	Fine	Moderate	11:09	7.3	Surface	1.0	1	18.2	8.2	31.6	7.5	96.4	4.6	3.6	7.5	4.8	3.5		
									2	18.2	8.2	31.6	7.5	96.4	4.6	3.5					
	Middle						3.7	1	18.2	8.2	31.7	7.5	96.7	4.8	3.8						
								2	18.2	8.2	31.7	7.6	96.8	4.8	3.1						
	Bottom						6.3	1	18.2	8.2	31.7	7.6	98.0	4.9	4.0						
								2	18.2	8.2	31.6	7.7	98.6	4.9	3.0						
	TCE-WQM2b	Fine	Moderate	10:55	9.9	Surface	1.0	1	18.4	8.1	31.7	7.5	96.5	4.8	3.3	7.5	4.9	3.6			
								2	18.4	8.1	31.7	7.5	96.5	4.8	3.5						
						Middle	5.0	1	18.3	8.1	31.7	7.5	95.9	4.9	4.6						
								2	18.3	8.1	31.7	7.5	95.9	4.9	3.7						
						Bottom	8.9	1	18.3	8.1	31.7	7.5	96.6	4.9	2.6						
								2	18.3	8.1	31.7	7.5	96.8	5.0	4.1						
	TCE-WQM3A	Fine	Moderate	11:25	3.3	Surface	1.0	1	18.4	8.1	30.8	7.5	95.6	4.1	3.4	7.5	4.0	3.8			
								2	18.4	8.1	30.8	7.5	95.7	4.1	4.4						
						Bottom	2.3	1	18.4	8.2	30.8	7.5	96.2	4.0	3.7						
								2	18.4	8.2	30.8	7.5	96.3	4.0	3.7						
						Surface	1.0	1	18.5	8.1	31.1	7.5	96.5	4.8	3.9				7.5	5.0	3.5
								2	18.5	8.1	31.1	7.5	96.6	5.0	3.0						
	Bottom	2.2	1	18.4	8.2	31.1	7.6	98.0	5.2	3.2											
			2	18.4	8.2	31.1	7.7	98.6	5.0	3.7											
	Surface	1.0	1	18.1	8.2	31.8	7.9	101.0	6.3	4.2	7.8	7.1	7.6								
			2	18.1	8.2	31.8	7.9	100.5	6.3	4.7											
	Middle	3.8	1	18.0	8.2	31.9	7.8	99.2	7.3	6.8											
			2	18.0	8.2	31.9	7.8	99.1	7.5	9.1											
	Bottom	6.5	1	18.0	8.2	32.0	7.8	99.7	7.7	9.6											
			2	18.0	8.2	32.0	7.8	99.9	7.4	11.4											
	TCE-C2	Fine	Rough	16:57	11.2	Surface	1.0	1	18.7	8.1	31.9	7.2	93.3	4.1	5.0	7.2	4.6	5.2			
								2	18.6	8.1	31.9	7.2	93.1	4.1	4.6						
						Middle	5.6	1	18.6	8.1	32.0	7.2	92.8	4.8	3.7						
								2	18.5	8.1	32.0	7.2	92.9	4.8	4.9						
						Bottom	10.2	1	18.5	8.1	32.0	7.3	94.5	4.9	5.9						
								2	18.6	8.1	32.0	7.4	95.1	4.7	7.2						
TCE-WQM1	Fine	Moderate	15:44	8.3	Surface	1.0	1	18.6	8.2	31.2	7.6	98.2	5.8	3.0	7.6	5.7	4.5				
							2	18.6	8.2	31.2	7.6	98.2	6.2	4.3							
					Middle	4.2	1	18.4	8.2	31.4	7.6	97.7	5.9	6.4							
							2	18.3	8.2	31.4	7.6	97.6	5.8	4.2							
					Bottom	7.3	1	18.3	8.2	31.5	7.6	97.7	5.3	4.8							
							2	18.4	8.2	31.4	7.6	98.0	5.4	4.1							
TCE-WQM2a	Fine	Moderate	16:18	6.7	Surface	1.0	1	18.5	8.1	31.4	7.4	95.7	4.4	5.1	7.4	5.4	5.5				
							2	18.5	8.1	31.4	7.4	95.7	4.4	4.1							
					Middle	3.4	1	18.4	8.1	31.6	7.4	95.6	5.1	6.3							
							2	18.4	8.1	31.6	7.4	95.7	5.3	6.3							
					Bottom	5.7	1	18.4	8.1	31.6	7.5	96.2	6.5	6.3							
							2	18.4	8.1	31.6	7.5	96.4	6.5	5.0							
TCE-WQM2b	Fine	Moderate	16:30	10.2	Surface	1.0	1	18.6	8.1	31.7	7.6	97.4	4.4	5.2	7.6	4.9	5.0				
							2	18.6	8.1	31.7	7.6	97.4	4.5	6.5							
					Middle	5.1	1	18.5	8.1	31.7	7.6	97.4	5.4	4.5							
							2	18.5	8.1	31.7	7.6	97.5	5.3	4.5							
					Bottom	9.2	1	18.5	8.1	31.7	7.6	98.0	5.0	4.3							
							2	18.5	8.1	31.7	7.6	98.2	4.8	5.1							
TCE-WQM3A	Fine	Calm	16:08	3.2	Surface	1.0	1	18.5	8.2	31.3	7.5	96.8	5.3	4.0	7.5	5.6	4.9				
							2	18.5	8.2	31.4	7.5	97.1	5.3	5.4							
					Bottom	2.2	1	18.6	8.2	31.4	7.7	98.9	5.8	5.4							
							2	18.5	8.2	31.4	7.7	99.4	5.8	4.6							
					Surface	1.0	1	18.5	8.2	31.0	7.7	98.2	7.5	5.0				7.6	8.8	5.0	
							2	18.5	8.2	31.1	7.7	98.2	7.9	4.3							
Bottom	2.2	1	18.5	8.2	31.0	7.7	99.2	10.0	5.3												
		2	18.5	8.2	31.0	7.8	99.8	9.9	5.3												

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)
22-01-2019	Mid-Ebb	TCE-C1	Fine	Moderate	12:18	8.4	Surface	1.0	1	18.2	8.2	30.9	7.9	101.2	13.8	5.8	7.9	18.0	4.1
									2	18.2	8.2	30.9	7.9	101.1	13.8	5.1			
							Middle	4.2	1	18.1	8.1	31.2	7.9	100.9	18.1	3.2			
									2	18.1	8.1	31.2	7.9	100.9	18.1	3.0			
							Bottom	7.4	1	18.1	8.1	31.2	7.9	101.3	22.0	3.7			
									2	18.1	8.1	31.2	7.9	101.3	22.0	3.5			
		TCE-C2	Fine	Moderate	14:07	11.8	Surface	1.0	1	18.8	8.2	31.0	7.6	97.6	3.8	4.9	7.5	3.6	4.3
									2	18.8	8.2	31.0	7.6	97.4	3.8	3.8			
							Middle	5.9	1	18.7	8.2	31.3	7.4	95.7	3.5	5.1			
									2	18.7	8.2	31.3	7.4	95.6	3.5	3.1			
							Bottom	10.8	1	18.7	8.2	31.5	7.4	95.7	3.3	4.4			
									2	18.7	8.2	31.5	7.4	95.9	3.4	4.2			
		TCE-WQM1	Fine	Moderate	13:00	8.1	Surface	1.0	1	18.5	8.2	30.4	8.0	102.9	4.5	4.4	8.1	4.5	4.0
									2	18.5	8.2	30.4	8.0	102.9	4.6	3.9			
							Middle	4.1	1	18.5	8.2	30.4	8.1	103.2	4.3	2.9			
									2	18.5	8.2	30.4	8.1	103.2	4.5	3.1			
							Bottom	7.1	1	18.5	8.2	30.4	8.1	103.6	4.6	3.9			
									2	18.5	8.2	30.4	8.1	103.6	4.6	5.8			
		TCE-WQM2a	Fine	Moderate	13:33	7.5	Surface	1.0	1	18.8	8.2	30.6	7.7	98.9	5.4	5.5	7.7	6.5	5.5
									2	18.8	8.2	30.6	7.7	98.9	5.4	5.0			
							Middle	3.8	1	18.7	8.2	30.7	7.6	98.1	6.3	4.6			
									2	18.7	8.2	30.7	7.6	98.0	6.5	5.9			
							Bottom	6.5	1	18.7	8.2	30.9	7.6	98.2	7.6	5.9			
									2	18.7	8.2	30.9	7.6	98.3	7.6	5.9			
	TCE-WQM2b	Fine	Moderate	13:44	10.3	Surface	1.0	1	18.7	8.2	30.6	7.7	98.3	4.8	4.8	7.5	5.8	5.0	
								2	18.7	8.2	30.6	7.6	98.1	4.8	4.8				
						Middle	5.2	1	18.7	8.2	30.9	7.4	95.5	5.9	4.4				
								2	18.7	8.2	30.9	7.4	95.3	5.9	4.6				
						Bottom	9.3	1	18.7	8.2	31.4	7.3	94.5	6.6	5.6				
								2	18.7	8.2	31.4	7.3	94.5	6.5	5.6				
	TCE-WQM3A	Fine	Moderate	13:21	3.7	Surface	1.0	1	18.6	8.2	30.6	8.1	104.2	7.6	8.2	8.1	7.3	8.7	
								2	18.6	8.2	30.6	8.1	104.2	7.5	8.5				
						Bottom	2.7	1	18.5	8.2	30.7	8.1	104.4	7.1	9.7				
								2	18.5	8.2	30.7	8.1	104.4	7.1	8.5				
								1	18.6	8.2	30.6	8.2	104.9	5.5	3.8				
								2	18.6	8.2	30.6	8.2	105.0	5.6	4.8				
	TCE-WQM4	Fine	Moderate	13:11	3.5	Bottom	2.5	1	18.5	8.2	30.6	8.2	105.6	7.9	4.2	8.2	6.7	4.5	
								2	18.5	8.2	30.6	8.3	105.7	8.0	5.1				
								1	18.1	8.1	29.7	8.0	101.4	14.8	4.3				
								2	18.1	8.1	29.7	8.0	101.4	14.8	4.3				
								1	18.0	8.2	30.3	8.0	101.0	15.7	4.7				
								2	18.0	8.2	30.3	8.0	101.0	15.7	4.1				
	Mid-Flood	TCE-C1	Fine	Moderate	10:13	8.2	Surface	1.0	1	18.1	8.1	29.7	8.0	101.4	14.8	4.3	8.0	16.8	4.3
									2	18.1	8.1	29.7	8.0	101.4	14.8	4.3			
							Middle	4.1	1	18.0	8.2	30.3	8.0	101.0	15.7	4.7			
									2	18.0	8.2	30.3	8.0	101.0	15.7	4.1			
							Bottom	7.2	1	18.0	8.2	30.7	8.0	101.4	19.8	4.2			
									2	18.0	8.2	30.7	8.0	101.4	19.8	4.1			
		TCE-C2	Fine	Moderate	8:11	13.0	Surface	1.0	1	18.6	8.2	31.0	7.5	96.5	8.4	16.7	7.5	11.7	11.0
									2	18.6	8.2	31.0	7.5	96.5	8.5	15.8			
							Middle	6.5	1	18.6	8.2	31.1	7.5	96.2	11.7	8.2			
									2	18.6	8.2	31.1	7.5	96.2	12.0	8.1			
							Bottom	12.0	1	18.6	8.2	31.2	7.6	97.2	14.8	8.2			
									2	18.6	8.2	31.2	7.6	97.3	14.9	9.0			
		TCE-WQM1	Fine	Moderate	9:24	8.3	Surface	1.0	1	18.3	8.2	30.6	7.9	101.4	4.9	8.1	7.9	5.3	7.3
									2	18.3	8.2	30.6	7.9	101.4	4.8	7.9			
							Middle	4.2	1	18.4	8.1	30.7	7.9	101.3	5.0	6.6			
									2	18.4	8.1	30.7	7.9	101.3	5.0	6.7			
							Bottom	7.3	1	18.3	8.1	30.7	8.0	101.9	5.9	7.1			
									2	18.3	8.2	30.7	8.0	101.9	5.9	7.2			
		TCE-WQM2a	Fine	Moderate	8:49	7.5	Surface	1.0	1	18.4	8.2	30.3	7.8	100.1	8.7	7.2	7.8	8.1	8.9
									2	18.4	8.2	30.3	7.8	100.1	8.7	8.8			
							Middle	3.8	1	18.4	8.2	30.3	7.9	100.2	8.0	8.5			
									2	18.4	8.2	30.3	7.9	100.2	8.1	8.7			
							Bottom	6.5	1	18.4	8.2	30.3	7.9	100.6	7.6	9.3			
									2	18.4	8.2	30.3	7.9	100.7	7.3	10.7			
	TCE-WQM2b	Fine	Moderate	8:35	10.1	Surface	1.0	1	18.5	8.2	30.5	7.8	100.1	14.0	12.2	7.8	15.5	12.6	
								2	18.5	8.2	30.5	7.8	100.1	13.9	11.2				
						Middle	5.1	1	18.5	8.1	30.5	7.9	100.6	15.5	12.0				
								2	18.5	8.1	30.5	7.9	100.7	15.6	10.9				
						Bottom	9.1	1	18.5	8.1	30.6	7.9	101.3	17.1	14.7				
								2	18.5	8.1	30.6	8.0	101.7	17.2	14.5				
	TCE-WQM3A	Fine	Moderate	9:00	3.9	Surface	1.0	1	18.3	8.2	30.3	7.9	100.5	6.7	4.9	7.9	6.3	5.2	
								2	18.3	8.2	30.3	7.9	100.5	6.7	5.4				
						Bottom	2.9	1	18.3	8.2	30.4	7.9	101.0	6.0	5.0				
								2	18.3	8.1	30.4	7.9	101.1	6.0	5.3				
								1	18.4	8.2	30.4	7.9	101.1	7.0	7.5				
								2	18.4	8.2	30.5	7.9	101.2	7.0	6.1				
	TCE-WQM4	Fine	Moderate	9:13	3.3	Bottom	2.3	1	18.4	8.1	30.5	8.0	101.6	7.1	16.5	8.0	7.1	11.3	
								2	18.4	8.1	30.5	8.0	101.8	7.1	15.0				



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
24-01-2019	Mid-Ebb	TCE-C1	Fine	Calm	13:56	8.1	Surface	1.0	1	18.3	8.1	29.2	8.1	102.8	7.6	11.0	8.0	10.9	10.4		
									2	18.3	8.1	29.2	8.1	102.8	7.6	11.9					
							Middle	4.1	1	18.0	8.2	30.3	7.9	100.5	11.9	9.2					
									2	18.0	8.2	30.3	7.9	100.5	11.3	10.6					
							Bottom	7.1	1	17.9	8.2	30.5	7.9	100.3	13.6	10.2					
									2	17.9	8.2	30.5	7.9	100.3	13.5	9.4					
		TCE-C2	Fine	Moderate	16:08	13.1	Surface	1.0	1	18.5	8.2	30.7	7.6	97.8	5.3	12.2	7.5	7.2	13.4		
									2	18.5	8.2	30.7	7.6	97.2	5.5	13.7					
							Middle	6.6	1	18.5	8.1	31.1	7.5	95.8	6.5	13.2					
									2	18.5	8.1	31.1	7.5	95.8	6.5	12.6					
							Bottom	12.1	1	18.5	8.2	31.1	7.5	96.5	9.8	15.3					
									2	18.5	8.2	31.1	7.5	96.5	9.5	13.2					
		TCE-WQM1	Fine	Calm	14:57	8.4	Surface	1.0	1	18.3	8.1	30.6	8.0	101.6	8.6	15.3	8.0	9.0	14.8		
									2	18.3	8.1	30.6	8.0	101.6	8.6	14.3					
							Middle	4.2	1	18.3	8.1	30.6	8.0	101.6	8.8	14.0					
									2	18.3	8.1	30.6	8.0	101.6	9.2	15.4					
							Bottom	7.4	1	18.3	8.1	30.6	8.0	101.5	9.4	13.9					
									2	18.3	8.1	30.6	8.0	101.4	9.4	16.1					
		TCE-WQM2a	Fine	Moderate	15:31	6.6	Surface	1.0	1	18.6	8.1	30.5	8.1	103.2	8.0	10.3	8.0	9.1	11.2		
									2	18.6	8.1	30.5	8.1	103.2	8.0	10.7					
							Middle	3.3	1	18.4	8.1	30.5	8.0	102.0	9.1	10.7					
									2	18.4	8.1	30.5	8.0	101.9	9.4	12.2					
							Bottom	5.6	1	18.4	8.1	30.5	8.0	101.9	10.1	11.0					
									2	18.4	8.1	30.5	8.0	101.9	10.1	12.2					
	TCE-WQM2b	Fine	Moderate	15:43	11.1	Surface	1.0	1	18.5	8.1	30.5	7.8	99.6	9.3	8.3	7.8	11.6	13.5			
								2	18.4	8.1	30.5	7.8	99.5	9.3	9.3						
						Middle	5.6	1	18.4	8.1	30.5	7.8	99.1	12.2	13.5						
								2	18.4	8.1	30.5	7.8	99.1	12.2	14.3						
						Bottom	10.1	1	18.4	8.1	30.5	7.9	100.2	13.6	18.3						
								2	18.4	8.1	30.5	7.9	100.6	13.1	17.5						
	TCE-WQM3A	Fine	Calm	15:21	3.9	Surface	1.0	1	18.7	8.1	30.6	8.4	107.6	5.5	10.9	8.4	5.7	9.2			
								2	18.7	8.1	30.6	8.4	107.5	5.3	11.2						
						Bottom	2.9	1	18.7	8.1	30.6	8.3	107.2	5.8	7.2						
								2	18.7	8.1	30.6	8.3	107.1	6.1	7.4						
						Surface	1.0	1	18.5	8.1	30.5	8.1	104.1	7.7	12.0				8.1	7.1	13.7
								2	18.5	8.1	30.5	8.1	104.2	7.6	12.8						
	Bottom	2.3	1	18.6	8.1	30.6	8.2	104.6	6.7	15.0											
			2	18.5	8.1	30.6	8.2	104.4	6.6	14.9											
	Surface	1.0	1	17.9	8.2	28.8	8.0	100.0	11.7	17.5	7.9	14.0	16.3								
			2	17.9	8.2	28.8	8.0	99.9	11.9	15.8											
	Middle	4.2	1	17.9	8.1	29.5	7.9	99.0	14.2	15.3											
			2	17.9	8.1	29.7	7.9	98.9	14.0	16.3											
	Bottom	7.3	1	17.9	8.1	30.3	7.8	98.7	16.0	15.6											
			2	17.9	8.1	30.3	7.8	98.8	16.2	17.5											
	TCE-C2	Cloudy	Moderate	9:38	13.3	Surface	1.0	1	18.3	8.1	30.5	7.7	98.1	7.9	14.2	7.7	8.3	13.0			
								2	18.3	8.1	30.5	7.7	98.1	8.0	13.1						
						Middle	6.7	1	18.3	8.1	30.5	7.7	97.9	8.3	12.0						
								2	18.3	8.1	30.5	7.7	97.9	8.3	13.4						
						Bottom	12.3	1	18.3	8.1	30.5	7.7	97.8	8.6	13.3						
								2	18.3	8.1	30.5	7.7	97.8	8.6	12.1						
	TCE-WQM1	Cloudy	Calm	10:48	8.6	Surface	1.0	1	18.1	8.1	30.5	8.1	102.3	6.4	14.4	8.0	6.1	13.7			
								2	18.1	8.1	30.5	8.0	102.2	6.3	13.9						
						Middle	4.3	1	18.0	8.1	30.5	8.0	101.3	6.1	13.5						
								2	18.0	8.1	30.5	8.0	101.2	6.0	12.1						
Bottom						7.6	1	18.0	8.1	30.5	8.0	101.0	5.9	14.4							
							2	18.0	8.1	30.5	8.0	101.1	6.0	13.7							
TCE-WQM2a	Cloudy	Moderate	10:13	7.4	Surface	1.0	1	18.1	8.2	30.4	7.8	99.2	7.9	16.9	7.8	9.9	15.3				
							2	18.1	8.2	30.4	7.8	99.2	7.9	16.3							
					Middle	3.7	1	18.1	8.2	30.3	7.8	99.1	7.7	14.0							
							2	18.1	8.2	30.3	7.8	99.1	7.7	14.6							
					Bottom	6.4	1	18.0	8.1	30.4	7.8	99.3	14.3	16.3							
							2	18.0	8.1	30.4	7.8	99.4	14.1	13.6							
TCE-WQM2b	Cloudy	Moderate	10:00	11.4	Surface	1.0	1	18.2	8.1	30.4	7.8	98.6	11.6	22.8	7.8	14.1	23.9				
							2	18.2	8.1	30.4	7.8	98.6	11.8	24.3							
					Middle	5.7	1	18.2	8.1	30.4	7.8	98.7	14.0	24.7							
							2	18.2	8.1	30.4	7.8	98.7	13.9	24.7							
					Bottom	10.4	1	18.2	8.1	30.4	7.8	98.8	16.8	23.9							
							2	18.1	8.1	30.4	7.8	98.8	16.8	23.0							
TCE-WQM3A	Cloudy	Calm	10:25	3.3	Surface	1.0	1	18.1	8.2	30.5	7.8	99.6	8.1	12.1	7.8	8.7	12.5				
							2	18.1	8.2	30.5	7.8	99.6	8.4	13.1							
					Bottom	2.3	1	18.1	8.2	30.5	7.8	99.6	9.1	11.5							
							2	18.1	8.2	30.5	7.8	99.6	9.0	13.2							
					Surface	1.0	1	18.2	8.1	30.6	7.8	99.6	8.6	13.0				7.8	9.6	12.1	
							2	18.2	8.1	30.6	7.8	99.6	8.6	13.1							
Bottom	2.2	1	18.1	8.2	30.6	7.8	99.7	10.6	10.9												
		2	18.1	8.2	30.6	7.9	99.8	10.8	11.3												



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)
24-01-2019	Mid-Ebb	TCE-C1	Cloudy	Moderate	15:36	8.2	Surface	1.0	1	18.6	8.1	28.4	7.8	98.8	4.2	5.9	7.7	6.8	5.6
									2	18.5	8.1	28.6	7.8	98.5	4.3	5.4			
							Middle	4.1	1	18.3	8.1	29.4	7.7	97.6	6.0	5.3			
									2	18.2	8.1	29.5	7.7	97.5	6.2	6.0			
							Bottom	7.2	1	18.2	8.1	30.1	7.7	97.3	10.0	5.9			
									2	18.2	8.1	30.1	7.7	97.3	10.1	5.3			
		TCE-C2	Cloudy	Moderate	17:33	13.1	Surface	1.0	1	18.8	8.0	29.6	7.6	96.7	2.8	3.7	7.3	3.2	5.2
									2	18.8	8.0	29.6	7.5	96.5	2.7	4.1			
							Middle	6.6	1	18.5	8.0	30.0	7.2	91.2	2.9	5.9			
									2	18.5	8.0	30.1	7.1	90.8	3.2	5.0			
							Bottom	12.1	1	18.5	8.0	30.2	7.1	91.2	3.8	6.4			
									2	18.5	8.0	30.2	7.2	91.4	3.9	6.1			
	TCE-WQM1	Cloudy	Calm	16:22	7.3	Surface	1.0	1	18.6	8.1	29.4	7.6	96.6	6.1	7.7	7.6	6.0	7.3	
								2	18.6	8.1	29.4	7.6	96.6	6.0	7.5				
						Middle	3.7	1	18.6	8.1	29.4	7.6	96.5	6.1	6.4				
								2	18.6	8.1	29.4	7.6	96.4	6.0	6.9				
						Bottom	6.3	1	18.6	8.1	29.4	7.5	95.7	6.0	8.0				
								2	18.6	8.1	29.4	7.5	95.6	6.0	7.5				
	TCE-WQM2a	Cloudy	Moderate	16:57	7.4	Surface	1.0	1	18.5	8.0	29.0	7.6	96.4	4.0	3.9	7.6	4.9	4.2	
								2	18.5	8.0	29.0	7.6	96.4	4.0	4.3				
						Middle	3.7	1	18.4	8.1	29.1	7.5	95.6	4.6	4.1				
								2	18.4	8.1	29.1	7.5	95.4	5.0	4.4				
						Bottom	6.4	1	18.4	8.1	29.1	7.6	95.7	5.9	4.4				
								2	18.4	8.1	29.1	7.6	96.1	5.7	4.3				
	TCE-WQM2b	Cloudy	Moderate	17:09	10.5	Surface	1.0	1	18.6	8.0	29.2	7.5	94.9	3.5	5.0	7.4	3.9	4.1	
								2	18.6	8.0	29.2	7.4	94.7	3.6	4.4				
						Middle	5.3	1	18.5	8.0	29.5	7.3	92.5	3.8	3.9				
								2	18.5	8.0	29.6	7.2	92.2	3.9	2.8				
						Bottom	9.5	1	18.5	8.0	30.1	7.2	92.1	4.4	3.9				
								2	18.5	8.0	30.0	7.2	92.3	4.3	4.6				
	TCE-WQM3A	Cloudy	Calm	16:45	4.1	Surface	1.0	1	19.0	8.1	29.4	8.0	102.5	4.2	5.1	8.0	8.0	6.1	
								2	19.0	8.1	29.4	8.0	102.4	4.3	4.8				
						Bottom	3.1	1	18.8	8.1	29.4	7.9	101.3	11.8	7.5				
								2	18.9	8.1	29.4	7.9	101.1	11.5	7.0				
								1	18.8	8.1	29.4	7.9	100.7	4.8	5.0				
								2	18.8	8.1	29.4	7.9	100.6	4.9	4.9				
	TCE-WQM4	Cloudy	Calm	16:34	3.5	Surface	1.0	1	18.8	8.1	29.4	7.9	100.7	4.8	5.0	7.9	4.9	4.8	
								2	18.8	8.1	29.4	7.9	100.6	4.9	4.9				
						Bottom	2.5	1	18.8	8.1	29.4	7.8	100.1	4.9	4.5				
								2	18.8	8.1	29.4	7.8	99.8	5.0	4.9				
								1	18.8	8.1	29.4	7.8	99.8	5.0	4.9				
								2	18.8	8.1	29.4	7.8	99.8	5.0	4.9				
	Mid-Flood	TCE-C1	Fine	Moderate	12:28	8.2	Surface	1.0	1	18.2	8.1	29.3	7.6	96.1	12.3	12.1	7.6	14.1	14.2
									2	18.2	8.1	29.3	7.6	96.0	12.5	12.9			
							Middle	4.1	1	18.1	8.1	29.5	7.6	95.8	13.1	11.6			
									2	18.1	8.1	29.5	7.6	95.8	13.2	12.6			
							Bottom	7.2	1	18.1	8.1	29.7	7.6	95.9	16.9	18.6			
									2	18.1	8.1	29.7	7.6	95.9	16.8	17.2			
TCE-C2		Fine	Moderate	10:26	13.5	Surface	1.0	1	18.4	7.9	29.2	7.3	92.9	6.3	5.3	7.3	9.7	7.2	
								2	18.4	7.9	29.2	7.3	92.8	6.4	5.2				
						Middle	6.8	1	18.4	7.9	29.2	7.3	92.4	11.4	8.6				
								2	18.4	7.9	29.2	7.3	92.3	11.5	8.6				
						Bottom	12.5	1	18.4	7.9	29.3	7.3	92.0	11.6	7.5				
								2	18.4	7.9	29.3	7.3	91.9	11.1	8.1				
TCE-WQM1	Fine	Calm	11:41	7.1	Surface	1.0	1	18.5	8.1	29.5	7.7	97.4	5.0	6.6	7.7	5.8	6.8		
							2	18.5	8.1	29.5	7.7	97.4	5.0	6.5					
					Middle	3.6	1	18.4	8.1	29.5	7.7	97.1	5.5	6.2					
							2	18.4	8.1	29.5	7.6	97.0	6.0	6.6					
					Bottom	6.1	1	18.3	8.1	29.5	7.6	96.9	6.7	7.7					
							2	18.3	8.1	29.5	7.7	97.0	6.7	7.1					
TCE-WQM2a	Fine	Moderate	11:06	6.9	Surface	1.0	1	18.3	8.0	28.8	7.6	95.3	4.9	5.4	7.5	7.8	6.4		
							2	18.3	8.0	28.8	7.6	95.3	4.9	6.3					
					Middle	3.5	1	18.3	8.0	28.9	7.5	95.1	6.5	7.0					
							2	18.3	8.0	28.9	7.5	95.1	6.2	6.3					
					Bottom	5.9	1	18.3	8.1	29.1	7.6	95.8	12.2	6.2					
							2	18.3	8.1	29.1	7.6	96.0	12.1	6.9					
TCE-WQM2b	Fine	Moderate	10:53	10.8	Surface	1.0	1	18.4	8.0	29.1	7.5	95.0	8.1	10.8	7.5	8.9	11.9		
							2	18.4	8.0	29.1	7.5	95.1	8.0	11.0					
					Middle	5.4	1	18.3	8.0	29.1	7.5	94.6	9.2	11.2					
							2	18.3	8.0	29.1	7.5	94.6	9.1	11.4					
					Bottom	9.8	1	18.3	8.0	29.1	7.5	94.9	9.3	13.0					
							2	18.3	8.0	29.1	7.5	95.3	9.6	13.7					
TCE-WQM3A	Fine	Calm	11:18	3.8	Surface	1.0	1	18.4	8.1	29.2	7.6	96.2	5.4	5.9	7.6	5.2	6.8		
							2	18.4	8.1	29.2	7.6	96.2	5.1	6.2					
					Bottom	2.8	1	18.4	8.1	29.3	7.6	96.4	5.2	7.1					
							2	18.4	8.0	29.3	7.6	96.6	4.9	7.8					
							1	18.4	8.0	29.2	7.6	96.0	5.8	5.0					
							2	18.4	8.0	29.2	7.6	96.0	6.1	5.5					
TCE-WQM4	Fine	Calm	11:29	3.5	Surface	1.0	1	18.4	8.0	29.2	7.6	96.0	6.1	5.5	7.6	6.4	5.3		
							2	18.4	8.0	29.2	7.6	96.0	6.9	5.6					
					Bottom	2.5	1	18.4	8.0	29.2	7.6	96.0	6.9	5.6					
							2	18.4	8.0	29.2	7.6	96.1	6.9	5.1					
							1	18.4	8.0	29.2	7.6	96.0	6.9	5.6					
							2	18.4	8.0	29.2	7.6	96.1	6.9	5.1					

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)
29-01-2019	Mid-Ebb	TCE-C1	Cloudy	Moderate	8:01	7.8	Surface	1.0	1	18.4	8.1	29.0	8.4	106.5	4.6	3.7	8.4	5.6	3.3
									2	18.4	8.1	29.0	8.4	106.5	4.6	3.8			
							Middle	3.9	1	18.4	8.1	29.3	8.4	106.6	5.7	2.9			
									2	18.4	8.1	29.3	8.4	106.6	5.7	2.7			
							Bottom	6.8	1	18.4	8.1	29.3	8.4	106.7	6.6	3.6			
									2	18.4	8.1	29.2	8.4	106.8	6.6	2.9			
		TCE-C2	Cloudy	Moderate	6:01	14.2	Surface	1.0	1	18.4	8.0	29.3	7.9	100.2	2.9	4.8	7.9	4.7	3.5
									2	18.4	8.0	29.3	7.9	100.2	3.0	4.1			
							Middle	7.1	1	18.4	8.0	29.5	7.9	100.2	4.6	4.0			
									2	18.4	8.0	29.5	7.9	100.2	4.6	3.1			
							Bottom	13.2	1	18.4	8.0	29.5	7.9	100.5	6.6	2.5			
									2	18.4	8.0	29.5	7.9	100.6	6.6	2.4			
		TCE-WQM1	Cloudy	Calm	7:21	9.2	Surface	1.0	1	18.4	8.1	30.0	8.1	102.6	3.2	2.2	8.1	3.5	1.7
									2	18.4	8.1	30.0	8.1	102.6	3.2	1.8			
							Middle	4.6	1	18.4	8.1	30.0	8.1	102.7	3.6	1.6			
									2	18.4	8.1	30.0	8.1	102.7	3.6	1.5			
							Bottom	8.2	1	18.4	8.1	30.0	8.1	103.0	3.8	1.2			
									2	18.4	8.1	30.0	8.1	103.0	3.8	1.8			
	TCE-WQM2a	Cloudy	Moderate	6:47	6.5	Surface	1.0	1	18.3	8.1	29.2	8.1	103.1	4.7	4.5	8.1	5.5	3.5	
								2	18.3	8.1	29.2	8.1	103.1	4.7	4.3				
						Middle	3.3	1	18.3	8.1	29.3	8.1	103.2	5.7	4.3				
								2	18.3	8.1	29.3	8.1	103.2	5.8	4.1				
						Bottom	5.5	1	18.3	8.1	29.3	8.2	103.2	5.9	1.8				
								2	18.3	8.1	29.3	8.2	103.3	6.0	2.0				
	TCE-WQM2b	Cloudy	Moderate	6:36	10.2	Surface	1.0	1	18.3	8.1	28.6	8.2	103.1	4.3	2.6	8.2	4.8	2.6	
								2	18.3	8.1	28.6	8.2	103.1	4.3	3.1				
						Middle	5.1	1	18.3	8.1	28.8	8.2	103.5	4.4	2.7				
								2	18.3	8.1	28.8	8.2	103.7	4.5	2.2				
						Bottom	9.2	1	18.3	8.1	28.7	8.3	104.5	5.5	2.3				
								2	18.3	8.1	28.7	8.3	104.7	5.6	2.4				
	TCE-WQM3A	Cloudy	Calm	6:58	3.5	Surface	1.0	1	18.2	8.1	29.7	8.1	102.6	4.8	3.5	8.1	6.5	3.8	
								2	18.2	8.1	29.7	8.1	102.7	4.8	3.0				
						Bottom	2.5	1	18.2	8.1	29.7	8.1	102.9	8.1	3.8				
								2	18.2	8.1	29.7	8.1	102.9	8.2	4.7				
								2	18.3	8.1	29.7	8.2	104.4	6.6	1.8				
								2	18.3	8.1	29.7	8.2	104.4	6.7	2.1				
	TCE-WQM4	Cloudy	Calm	7:09	3.2	Surface	1.0	1	18.3	8.1	29.7	8.2	104.4	6.6	1.8	8.2	6.8	1.9	
								2	18.3	8.1	29.7	8.2	104.4	6.9	2.2				
						Bottom	2.2	1	18.3	8.1	29.7	8.2	104.4	6.9	2.2				
								2	18.3	8.1	29.7	8.2	104.4	7.0	1.6				
								2	18.3	8.1	29.7	8.2	104.4	7.0	1.6				
								2	18.3	8.1	29.7	8.2	104.4	7.0	1.6				
	Mid-Flood	TCE-C1	Fine	Moderate	12:13	7.5	Surface	1.0	1	18.8	8.2	29.9	8.4	107.1	4.3	3.8	8.4	4.4	3.9
									2	18.8	8.2	29.8	8.4	107.2	4.4	3.5			
							Middle	3.8	1	18.8	8.2	29.8	8.4	107.3	4.4	4.0			
									2	18.8	8.2	29.8	8.4	107.4	4.4	3.2			
							Bottom	6.5	1	18.8	8.2	29.8	8.4	107.5	4.4	4.5			
									2	18.8	8.2	29.8	8.4	107.5	4.5	4.1			
		TCE-C2	Fine	Moderate	14:18	13.6	Surface	1.0	1	18.7	8.1	30.4	7.8	100.5	3.0	1.7	7.8	5.2	1.3
									2	18.7	8.1	30.4	7.8	100.5	3.0	1.1			
Middle							6.8	1	18.7	8.1	30.4	7.9	100.9	4.9	0.7				
								2	18.7	8.1	30.4	7.9	100.9	4.9	1.2				
Bottom							12.6	1	18.7	8.1	30.4	7.9	101.1	7.6	1.4				
								2	18.7	8.1	30.4	7.9	101.1	7.7	1.8				
TCE-WQM1		Fine	Calm	13:00	8.2	Surface	1.0	1	18.8	8.1	29.8	8.4	107.3	5.3	4.0	8.4	6.1	5.7	
								2	18.7	8.1	29.8	8.4	107.2	5.3	3.4				
						Middle	4.1	1	18.7	8.2	29.9	8.4	107.0	5.8	4.5				
								2	18.7	8.2	29.9	8.4	106.9	5.8	5.0				
						Bottom	7.2	1	18.7	8.2	29.9	8.4	107.0	7.2	8.4				
								2	18.7	8.2	29.9	8.4	107.0	7.3	8.9				
TCE-WQM2a	Fine	Moderate	13:36	6.5	Surface	1.0	1	18.7	8.1	29.0	8.4	106.4	5.3	2.9	8.3	6.8	3.4		
							2	18.7	8.1	29.0	8.4	106.4	5.3	2.3					
					Middle	3.3	1	18.7	8.1	29.1	8.3	106.1	7.0	2.0					
							2	18.7	8.1	29.1	8.3	106.1	7.1	1.7					
					Bottom	5.5	1	18.7	8.1	29.1	8.3	106.0	8.1	5.7					
							2	18.7	8.1	29.1	8.3	106.0	8.0	5.6					
TCE-WQM2b	Fine	Moderate	13:47	9.8	Surface	1.0	1	18.8	8.1	29.3	8.5	108.1	2.4	1.3	8.4	5.7	3.5		
							2	18.8	8.1	29.3	8.5	108.0	2.4	1.6					
					Middle	4.9	1	18.8	8.1	29.3	8.4	107.6	6.4	4.4					
							2	18.8	8.1	29.3	8.4	107.5	6.4	4.4					
					Bottom	8.8	1	18.8	8.1	29.3	8.4	107.3	8.2	4.5					
							2	18.8	8.1	29.3	8.4	107.3	8.2	4.6					
TCE-WQM3A	Fine	Calm	13:25	3.6	Surface	1.0	1	18.8	8.1	29.3	8.5	108.4	4.3	4.3	8.5	8.2	4.2		
							2	18.8	8.1	29.3	8.5	108.3	4.4	4.0					
					Bottom	2.6	1	18.8	8.1	29.3	8.5	108.1	12.1	4.1					
							2	18.8	8.1	29.3	8.5	108.0	12.1	4.3					
							2	18.8	8.1	29.2	8.4	107.6	4.8	3.6					
							2	18.8	8.1	29.2	8.4	107.5	4.8	4.3					

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)
31-01-2019	Mid-Ebb	TCE-C1	Fine	Moderate	11:46	7.4	Surface	1.0	1	18.8	8.1	29.0	8.6	110.0	2.9	2.4	8.5	3.3	1.9
									2	18.7	8.1	29.1	8.6	109.7	2.8	1.4			
							Middle	3.7	1	18.5	8.1	29.5	8.4	107.4	2.9	2.0			
									2	18.5	8.1	29.5	8.4	107.3	2.9	2.0			
							Bottom	6.4	1	18.4	8.1	30.1	7.9	100.7	4.2	1.4			
									2	18.4	8.1	30.1	7.9	100.5	4.2	1.9			
		TCE-C2	Fine	Moderate	9:35	12.2	Surface	1.0	1	18.7	7.9	29.0	7.7	97.7	2.5	2.1	7.5	2.4	2.4
									2	18.7	7.9	29.0	7.7	97.4	2.5	2.0			
							Middle	6.1	1	18.6	7.9	29.7	7.3	93.6	2.3	2.8			
									2	18.6	7.9	29.8	7.3	93.5	2.4	3.1			
							Bottom	11.2	1	18.6	7.8	29.8	7.3	93.6	2.4	2.1			
									2	18.6	7.8	29.8	7.3	93.6	2.5	2.4			
	TCE-WQM1	Fine	Calm	10:56	8.2	Surface	1.0	1	18.8	8.1	28.7	8.0	102.0	3.7	2.4	8.0	3.9	3.2	
								2	18.8	8.1	28.7	8.0	101.9	3.7	3.4				
						Middle	4.1	1	18.8	8.1	28.8	7.9	100.9	3.7	3.7				
								2	18.8	8.1	28.8	7.9	100.9	3.7	3.7				
						Bottom	7.2	1	18.8	8.1	28.8	7.9	100.1	4.3	2.7				
								2	18.8	8.1	28.8	7.8	99.9	4.4	3.4				
	TCE-WQM2a	Fine	Moderate	10:18	6.5	Surface	1.0	1	18.8	8.0	28.4	8.0	101.8	3.4	3.5	8.0	4.0	4.1	
								2	18.8	8.0	28.4	8.0	101.8	3.4	3.5				
						Middle	3.3	1	18.7	8.0	28.5	7.9	100.8	3.8	4.5				
								2	18.7	8.0	28.5	7.9	100.8	3.8	4.1				
						Bottom	5.5	1	18.7	8.0	28.9	7.5	95.9	4.7	4.6				
								2	18.7	8.0	28.9	7.5	95.9	4.7	4.1				
	TCE-WQM2b	Fine	Moderate	10:05	10.5	Surface	1.0	1	18.7	8.0	28.4	7.7	98.0	3.3	3.2	7.6	3.3	3.6	
								2	18.7	8.0	28.5	7.7	97.8	3.3	3.0				
						Middle	5.3	1	18.7	8.0	29.0	7.4	94.2	3.1	3.7				
								2	18.7	8.0	29.0	7.4	94.1	3.2	3.5				
Bottom						9.5	1	18.7	8.0	29.3	7.3	93.6	3.5	3.7					
							2	18.7	8.0	29.3	7.3	93.6	3.5	4.4					
TCE-WQM3A	Fine	Calm	10:31	3.9	Surface	1.0	1	18.8	8.1	28.7	8.4	107.5	4.8	3.9	8.4	5.0	4.2		
							2	18.8	8.1	28.7	8.4	107.3	4.8	3.5					
					Bottom	2.9	1	18.8	8.1	28.8	8.3	105.4	5.2	5.1					
							2	18.8	8.1	28.8	8.3	105.2	5.2	4.4					
							1	18.8	8.1	28.7	8.0	101.2	13.3	17.1					
							2	18.8	8.1	28.8	7.9	101.0	13.6	16.2					
TCE-WQM4	Fine	Calm	10:43	2.7	Middle	1.4	1	18.8	8.1	28.7	8.0	101.2	13.3	17.1	7.9	13.4	16.7		
							2	18.8	8.1	28.8	7.9	101.0	13.6	16.2					
							1	19.5	8.1	28.9	9.1	116.9	2.8	3.0					
							2	19.5	8.1	28.9	9.1	117.0	2.8	3.0					
					Middle	4.2	1	18.8	8.1	29.3	8.8	112.7	3.3	2.8					
							2	18.8	8.1	29.3	8.8	112.5	3.3	3.0					
Mid-Flood	Mid-Flood	TCE-C1	Fine	Moderate	13:53	8.3	Surface	1.0	1	19.5	8.1	28.9	9.1	116.9	2.8	3.0	8.9	3.4	2.9
									2	19.5	8.1	28.9	9.1	117.0	2.8	3.0			
							Middle	4.2	1	18.8	8.1	29.3	8.8	112.7	3.3	2.8			
									2	18.8	8.1	29.3	8.8	112.5	3.3	3.0			
							Bottom	7.3	1	18.4	8.1	30.1	8.0	101.9	4.1	2.3			
									2	18.4	8.1	30.1	8.0	101.9	4.2	3.1			
		TCE-C2	Fine	Moderate	15:52	11.7	Surface	1.0	1	19.3	8.0	28.8	8.4	107.5	2.2	2.2	8.0	3.3	2.7
									2	19.3	8.0	28.9	8.3	107.3	2.3	2.3			
							Middle	5.9	1	18.7	8.0	29.6	7.6	97.0	2.7	2.9			
									2	18.7	8.0	29.6	7.6	96.9	2.7	3.2			
							Bottom	10.7	1	18.6	8.0	29.9	7.5	95.7	4.9	3.4			
									2	18.6	8.0	29.9	7.5	96.0	4.8	2.4			
	TCE-WQM1	Fine	Calm	14:34	8.1	Surface	1.0	1	19.0	8.1	28.8	8.3	106.6	3.8	3.4	8.2	4.1	3.5	
								2	19.0	8.1	28.8	8.3	106.2	3.9	3.7				
						Middle	4.1	1	18.9	8.1	28.8	8.1	103.2	4.3	3.3				
								2	18.9	8.1	28.8	8.1	103.2	4.3	3.9				
						Bottom	7.1	1	19.0	8.1	28.8	7.9	101.2	4.2	3.0				
								2	19.0	8.1	28.8	7.9	101.0	4.2	3.6				
	TCE-WQM2a	Fine	Moderate	15:11	6.8	Surface	1.0	1	19.1	8.1	28.4	8.7	110.7	5.2	3.7	8.5	5.4	5.3	
								2	19.1	8.1	28.4	8.7	110.7	5.2	4.1				
						Middle	3.4	1	18.9	8.1	28.6	8.3	105.4	5.7	4.9				
								2	18.9	8.1	28.6	8.3	105.2	5.7	5.4				
						Bottom	5.8	1	18.9	8.1	28.7	8.1	103.0	5.4	6.2				
								2	18.9	8.1	28.7	8.1	102.8	5.3	7.2				
	TCE-WQM2b	Fine	Moderate	15:24	10.4	Surface	1.0	1	19.3	8.1	27.4	8.6	109.2	2.7	3.1	8.3	3.2	2.9	
								2	19.3	8.1	27.5	8.6	109.1	2.7	2.4				
						Middle	5.2	1	18.9	8.0	28.5	8.0	102.0	3.4	2.2				
								2	18.9	8.0	28.5	8.0	101.9	3.4	3.2				
Bottom						9.4	1	18.8	8.0	28.7	7.9	100.2	3.5	3.6					
							2	18.8	8.0	28.7	7.9	100.1	3.5	3.0					
TCE-WQM3A	Fine	Calm	14:59	4.1	Surface	1.0	1	19.4	8.2	28.3	9.3	119.7	3.2	3.6	9.3	3.8	3.6		
							2	19.4	8.2	28.3	9.3	119.6	3.4	3.2					
					Bottom	3.1	1	19.1	8.2	28.5	9.0	115.4	4.3	4.2					
							2	19.1	8.2	28.5	9.0	115.2	4.2	3.5					
							1	19.7	8.2	28.6	8.7	113.0	3.3	3.0					
							2	19.7	8.2	28.6	8.7	112.7	3.4	2.9					