

Annex G3

Monitoring Results for Water Quality

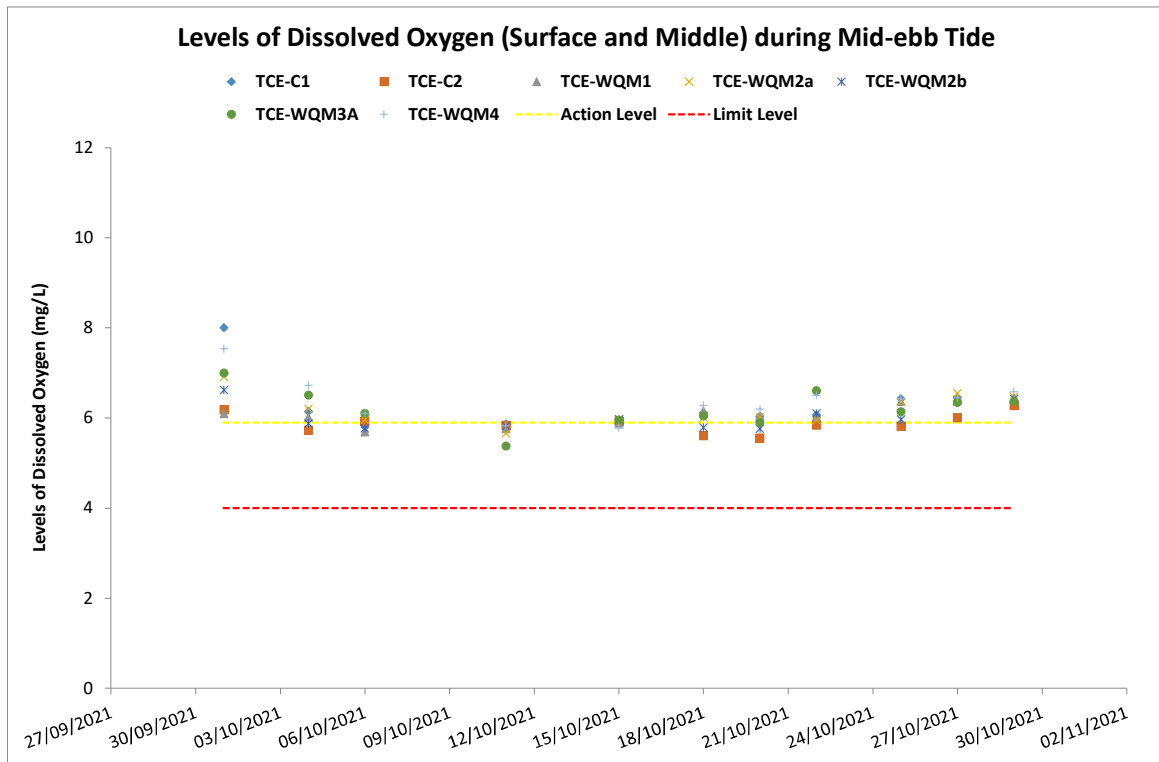


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 October 2021

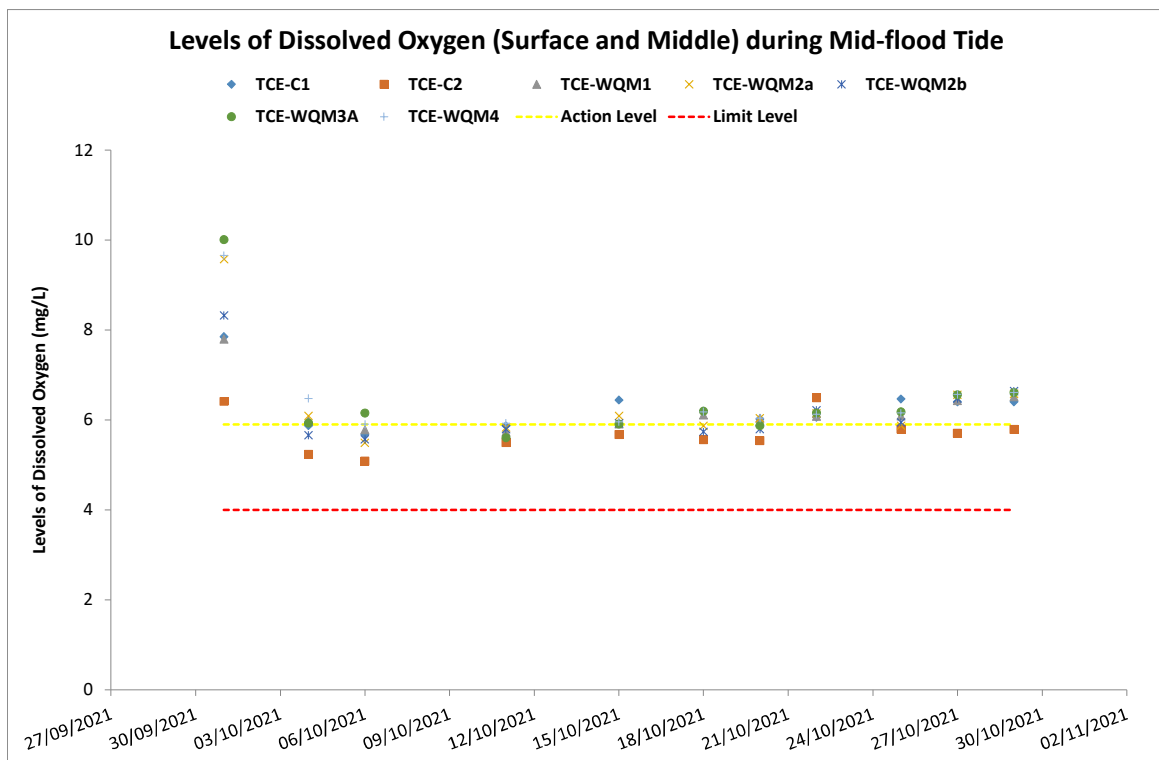


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 October 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: October 2021

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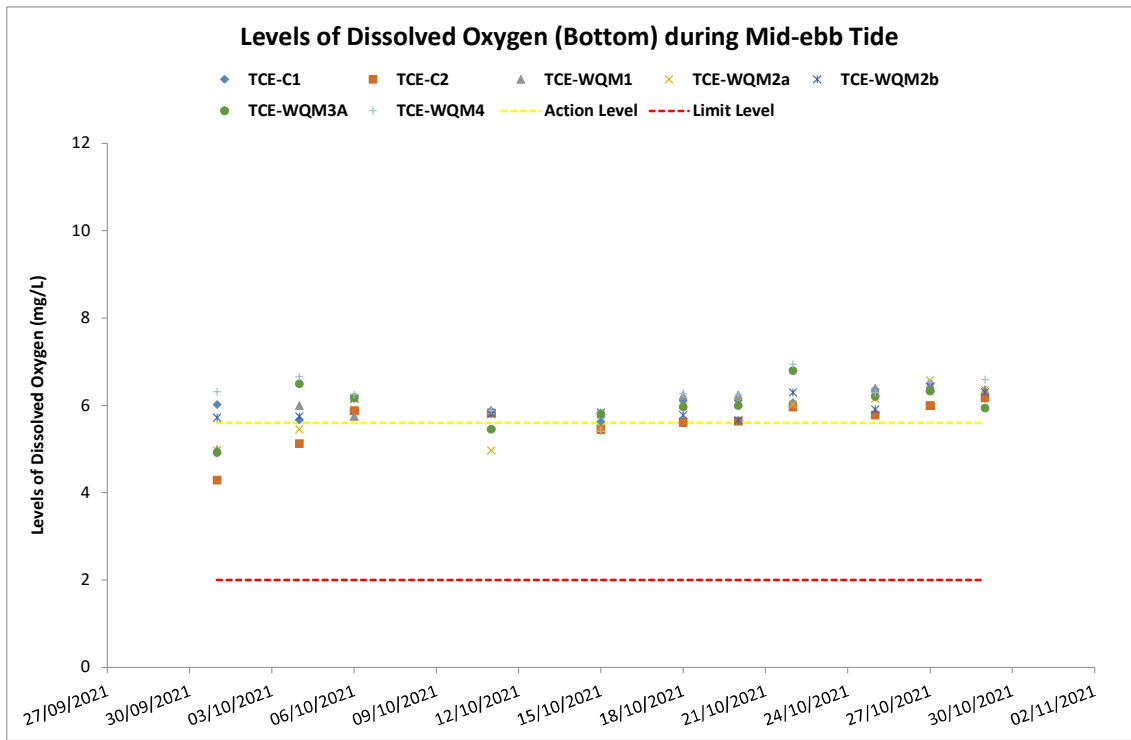


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 October 2021

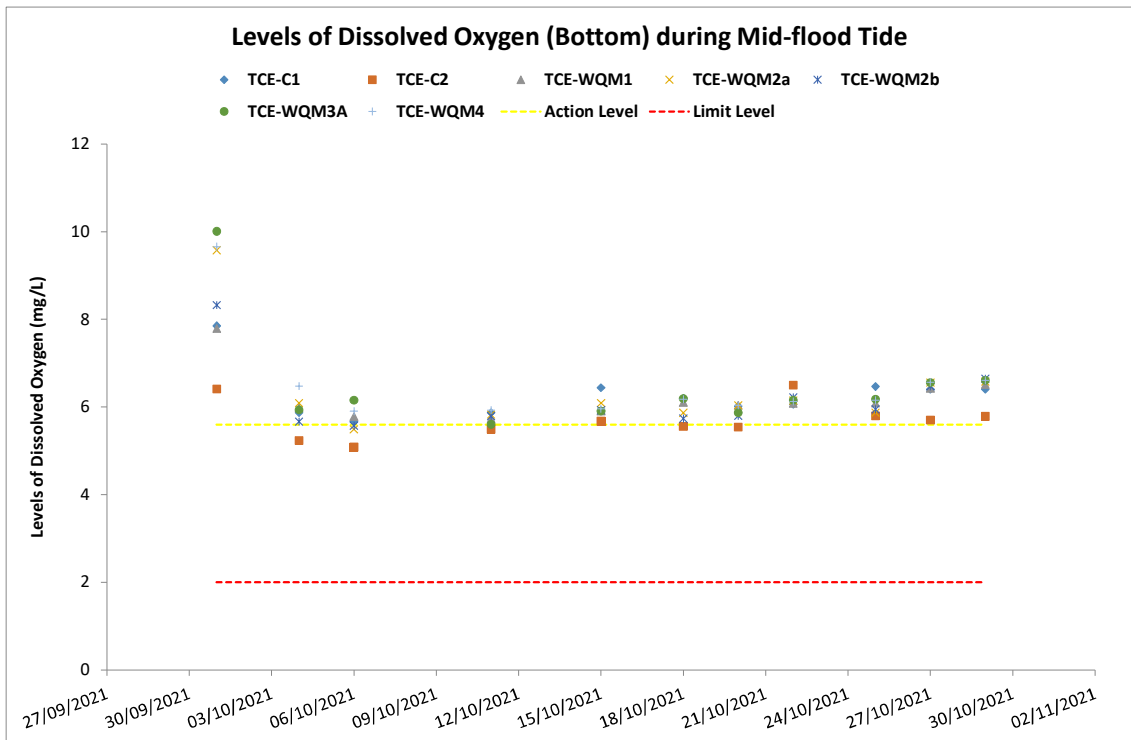


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 October 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: October 2021

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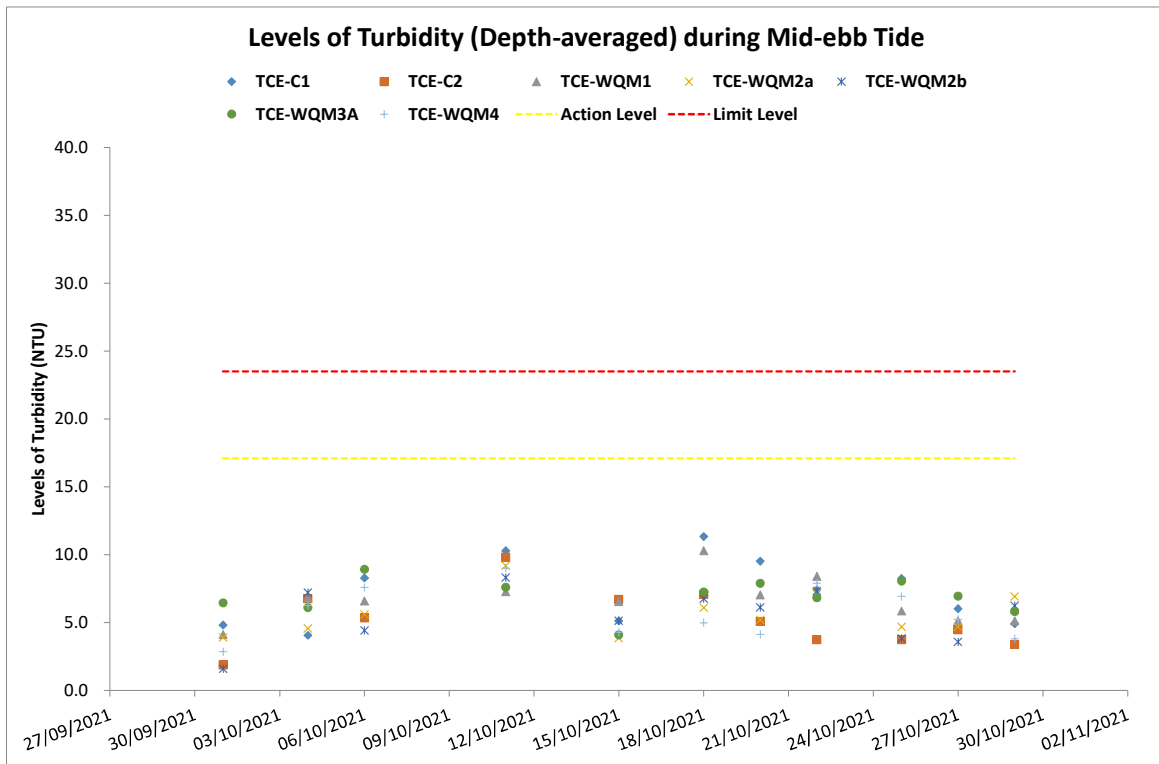


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 October 2021

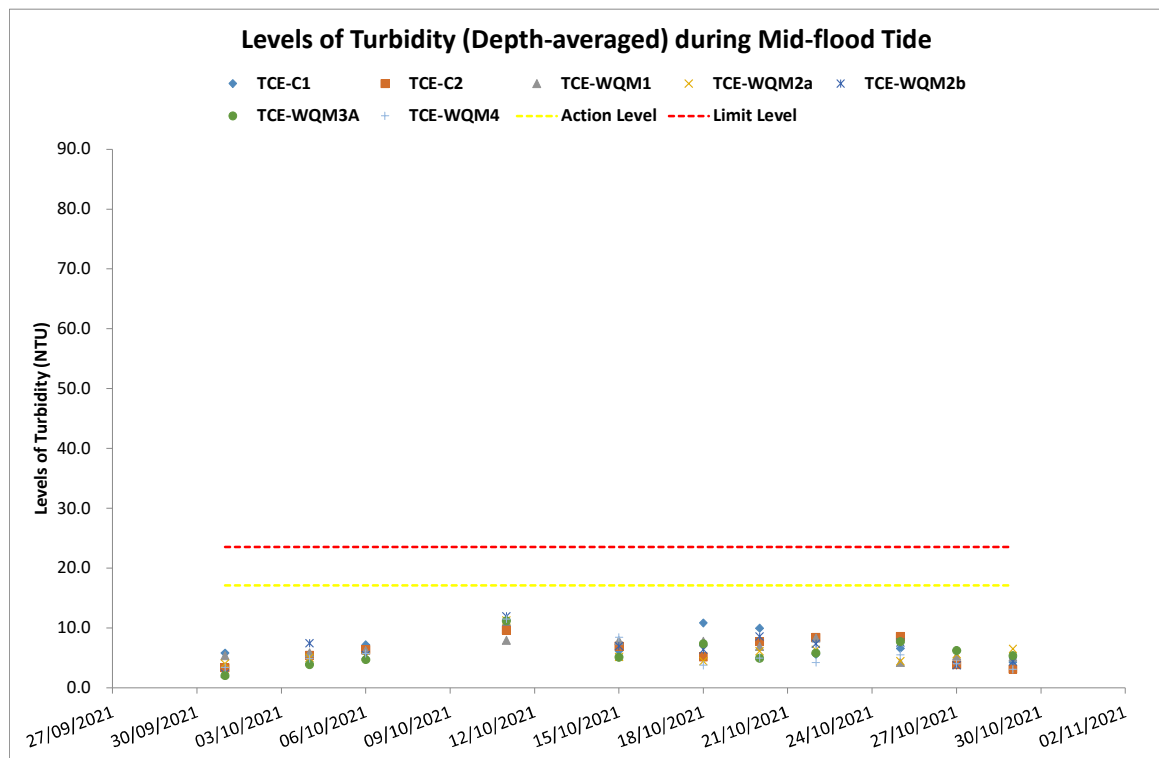


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 October 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: October 2021

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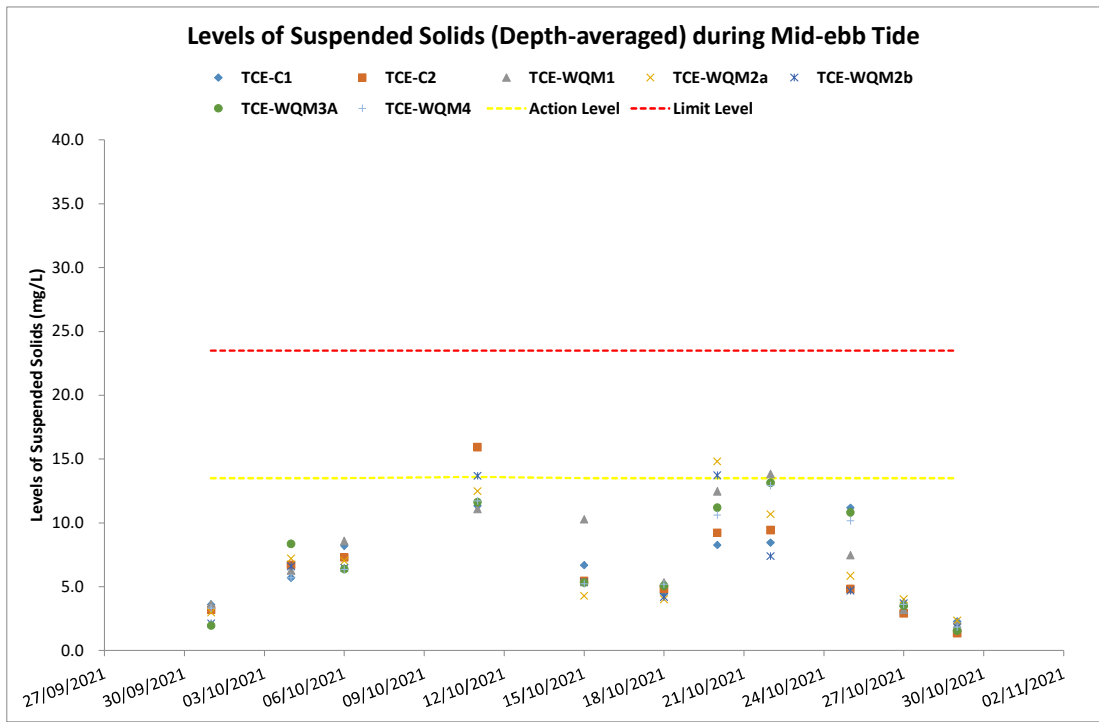


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 31 October 2021

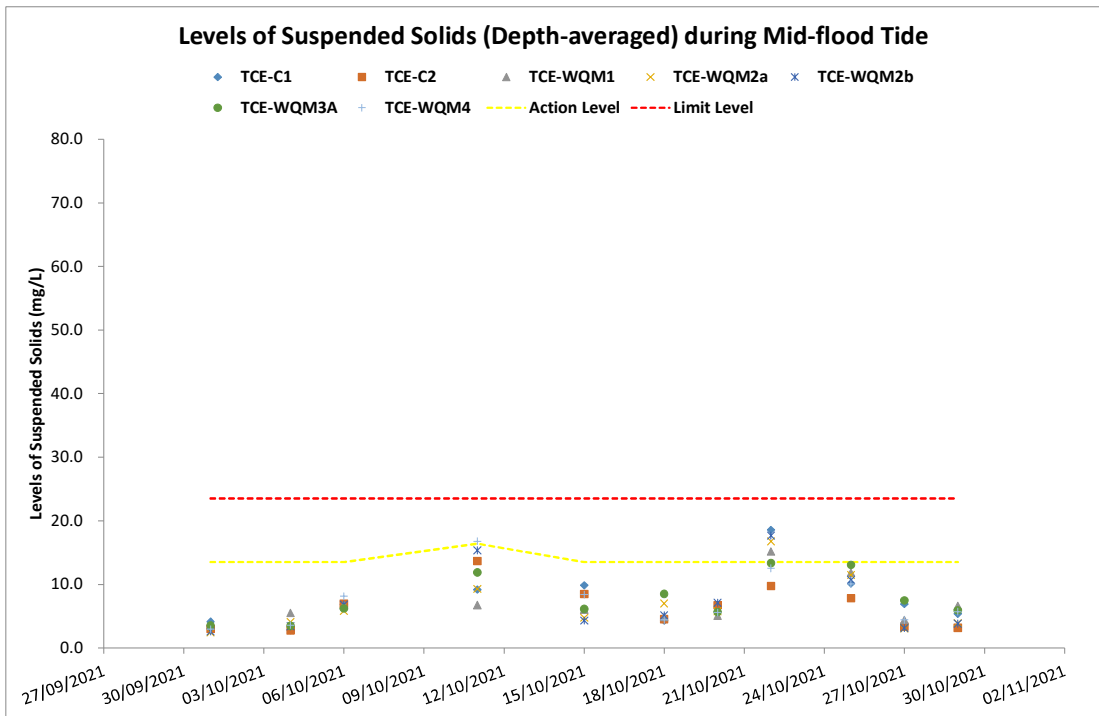


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 31 October 2021

Source: P:\Projects\0445700 CEDD ET for Tung Chung\JT\02_Deliverable\10 Monthly EM&A Report\
 Date: October 2021

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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)										
2021-10-01	Mid-Ebb	TCE-C1	Sunny	Moderate	10:11	7.4	Surface	1.0	1	30.1	8.4	22.9	9.6	143.9	2.0	3.4	8.0	4.8	3.6										
									2	30.1	8.4	23.0	9.6	144.4	2.0	3.6													
							Middle	3.7	1	29.5	8.2	28.2	6.4	98.4	3.8	3.2													
									2	29.5	8.2	28.2	6.4	98.2	3.8	4.0													
							Bottom	6.4	1	29.4	8.2	28.9	6.0	92.5	8.7	3.8													
									2	29.4	8.2	29.0	6.0	92.5	8.7	3.6													
		TCE-C2	Sunny	Moderate	8:16	15.6	Surface	1.0	1	30.0	8.1	26.6	6.8	104.3	1.6	2.4	6.2	1.9	3.2										
									2	30.0	8.1	26.6	6.8	104.2	1.6	2.9													
							Middle	7.8	1	29.6	8.0	28.5	5.6	85.3	1.9	3.0													
									2	29.6	8.0	28.5	5.6	85.3	1.9	3.0													
							Bottom	14.6	1	29.0	7.9	30.4	4.3	65.9	2.1	4.0													
									2	29.0	7.9	30.4	4.3	66.0	2.2	3.6													
		TCE-WQM1	Sunny	Calm	9:28	9.5	Surface	1.0	1	30.5	8.2	28.2	7.2	111.9	2.6	2.6	6.1	4.1	3.6										
									2	30.5	8.2	28.2	7.2	111.7	2.6	3.5													
							Middle	4.8	1	30.1	8.1	29.2	5.0	77.8	4.3	3.8													
									2	30.1	8.1	29.2	5.0	77.9	4.3	3.6													
							Bottom	8.5	1	29.4	8.1	29.9	5.0	76.8	5.5	4.5													
									2	29.4	8.1	29.9	5.0	77.2	5.5	3.7													
		TCE-WQM2a	Sunny	Moderate	9:00	8.5	Surface	1.0	1	30.0	8.2	26.9	7.4	113.9	1.9	2.8	6.9	3.9	3.0										
									2	30.0	8.2	26.9	7.4	113.9	1.9	2.4													
							Middle	4.3	1	30.1	8.1	27.9	6.4	98.9	4.2	2.5													
									2	30.1	8.1	27.9	6.4	98.5	4.3	3.2													
							Bottom	7.5	1	29.3	8.0	29.5	5.0	76.3	5.5	4.0													
									2	29.3	8.0	29.5	5.0	76.6	5.6	3.1													
		TCE-WQM2b	Sunny	Moderate	8:43	11.1	Surface	1.0	1	29.9	8.1	26.2	7.0	106.8	1.5	2.2	6.6	1.6	2.1										
									2	29.9	8.1	26.2	7.0	106.6	1.5	2.8													
							Middle	5.6	1	29.8	8.1	27.6	6.3	95.9	1.5	2.1													
									2	29.8	8.1	27.6	6.3	95.8	1.5	1.9													
							Bottom	10.1	1	29.6	8.0	28.5	5.7	87.8	1.8	2.0													
									2	29.6	8.0	28.5	5.7	87.9	1.8	1.7													
		TCE-WQM3A	Sunny	Calm	9:08	4.2	Surface	1.0	1	29.8	8.2	26.6	7.0	107.1	2.6	1.9	7.0	6.5	2.0										
									2	29.8	8.2	26.6	7.0	106.7	2.6	2.3													
							Bottom	3.2	1	29.6	8.0	28.3	4.9	75.6	10.3	1.6													
									2	29.6	8.0	28.3	4.9	75.3	10.3	2.0													
							TCE-WQM4	Sunny	Calm	9:17	4.1	Surface	1.0	1	30.4	8.2				28.1	7.5	117.1	2.6	3.2	7.5	2.8	3.3		
														2	30.4	8.2				28.1	7.5	117.2	2.6	2.6					
		Bottom	3.1	1	30.2	8.1						28.8	6.3	98.3	3.1	4.3													
				2	30.1	8.1						28.8	6.3	97.6	3.1	3.2													
		2021-10-01	Mid-Flood	TCE-C1	Fine	Rough						19:49	7.1	Surface	1.0	1	30.3	8.4	22.6	9.5	143.7	2.3	5.1	7.9				5.8	4.2
																2	30.4	8.4	22.6	9.5	143.6	2.3	4.4						
							Middle	3.6	1	29.5	8.2			28.2	6.2	94.6	6.2	4.2											
									2	29.5	8.2			28.2	6.2	94.6	6.2	3.7											
							Bottom	6.1	1	29.4	8.2			28.6	5.9	91.2	8.9	4.0											
									2	29.4	8.2			28.6	6.0	91.2	8.9	3.5											
				TCE-C2	Fine	Rough	21:47	14.1	Surface	1.0	1	29.9	8.2	27.0	7.2	110.0	3.7	2.4	6.4	3.3	3.0								
											2	29.9	8.2	27.0	7.2	110.1	3.6	2.4											
									Middle	7.1	1	29.6	8.0	28.3	5.6	86.6	2.8	3.3											
											2	29.6	8.0	28.3	5.6	86.4	2.7	3.1											
Bottom	13.1								1	29.1	8.0	30.2	4.8	73.7	3.6	3.2													
									2	29.1	8.0	30.2	4.8	73.8	3.6	3.4													
TCE-WQM1	Fine			Moderate	20:36	8.3	Surface	1.0	1	30.5	8.2	27.5	8.6	133.7	2.3	4.2	7.8	5.4	3.5										
									2	30.5	8.2	27.5	8.6	133.4	2.3	4.5													
							Middle	4.2	1	30.4	8.1	28.6	7.0	108.9	4.6	2.9													
									2	30.4	8.1	28.6	7.0	108.6	4.6	3.6													
							Bottom	7.3	1	29.8	8.1	29.5	6.5	100.4	9.1	3.2													
									2	29.8	8.1	29.5	6.5	100.4	9.2	2.7													
TCE-WQM2a	Fine			Moderate	21:13	7.5	Surface	1.0	1	30.2	8.3	26.8	10.1	155.1	2.0	3.1	9.6	4.0	2.5										
									2	30.2	8.3	26.8	10.1	155.1	2.0	2.4													
							Middle	3.8	1	30.2	8.3	27.0	9.1	140.1	3.5	2.2													
									2	30.2	8.3	27.0	9.1	139.8	3.6	2.6													
							Bottom	6.5	1	30.0	8.2	27.1	7.7	118.5	6.5	2.5													
									2	30.0	8.2	27.1	7.9	120.7	6.6	2.1													
TCE-WQM2b	Fine			Rough	21:24	10.2	Surface	1.0	1	30.7	8.2	25.3	8.6	131.9	2.0	2.7	8.3	2.4	2.6										
									2	30.7	8.2	25.4	8.6	131.7	2.0	3.4													
							Middle	5.1	1	30.5	8.2	25.8	8.1	124.4	2.1	2.3													
									2	30.5	8.2	25.8	8.1	124.2	2.1	2.6													
							Bottom	9.2	1	30.1	8.1	27.0	6.9	105.7	2.9	2.1													
									2	30.1	8.1	27.0	6.9	105.4	2.9	2.5													
TCE-WQM3A	Fine			Moderate	21:01	3.8	Surface	1.0	1	30.3	8.3	26.8	10.0	154.1	2.1	4.0	10.0	2.0	3.6										
									2	30.3	8.3	26.8	10.0	154.1	2.1	4.5													
							Bottom	2.8	1	30.2	8.3	26.9	9.3	143.2	1.9	3.2													
									2	30.2	8.3	26.9	9.3	142.8	2.0	2.5													
							TCE-WQM4	Fine	Moderate	20:50	3.5	Surface	1.0	1	30.6	8.3				26.9	9.7	149.6	2.1	2.7	9.7	3.4	3.0		
														2	30.6	8.3				26.9	9.7	149.5	2.1	3.5					
Bottom	2.5			1	30.2	8.1						28.3	6.5	100.7	4.7	3.0													
				2	30.2	8.1						28.3	6.5	100.7	4.7	2.6													

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged												
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)										
2021-10-04	Mid-Ebb	TCE-C1	Fine	Moderate	9:48	8.2	Surface	1.0	1	29.1	8.3	30.0	6.3	96.7	1.7	2.4	6.1	4.0	5.7										
									2	29.1	8.3	30.0	6.3	96.6	1.8	2.6													
							Middle	4.1	1	29.2	8.3	30.6	6.1	93.6	4.5	6.3													
									2	29.2	8.3	30.7	6.0	92.3	4.8	6.9													
							Bottom	7.2	1	29.2	8.3	30.9	5.7	87.6	5.8	8.2													
									2	29.2	8.3	30.9	5.7	87.7	5.8	7.8													
		TCE-C2	Fine	Moderate	11:38	13.5	Surface	1.0	1	29.5	8.2	28.9	6.1	94.1	4.0	7.0	5.7	6.7	6.7										
									2	29.5	8.2	29.0	6.1	93.8	4.0	7.1													
							Middle	6.8	1	29.3	8.1	30.3	5.4	83.0	7.1	6.5													
									2	29.3	8.1	30.4	5.4	82.9	7.5	6.7													
							Bottom	12.5	1	29.2	8.1	31.2	5.1	79.3	9.0	6.5													
									2	29.2	8.1	31.2	5.1	79.7	8.9	6.5													
		TCE-WQM1	Fine	Moderate	10:27	8.6	Surface	1.0	1	29.5	8.2	28.5	6.2	94.7	5.9	3.6	6.0	6.8	6.3										
									2	29.4	8.2	28.5	6.2	94.3	6.0	3.6													
							Middle	4.3	1	29.4	8.2	28.8	5.9	90.0	7.0	6.0													
									2	29.4	8.2	28.8	5.9	90.2	7.0	6.6													
							Bottom	7.6	1	29.3	8.2	28.8	6.0	91.6	7.4	9.0													
									2	29.3	8.2	28.8	6.0	92.1	7.5	8.8													
		TCE-WQM2a	Fine	Moderate	11:02	7.5	Surface	1.0	1	29.6	8.2	28.2	6.6	100.9	5.0	5.9	6.2	4.6	7.2										
									2	29.6	8.2	28.2	6.6	100.9	5.0	5.8													
							Middle	3.8	1	29.4	8.1	29.3	5.8	89.7	4.9	7.4													
									2	29.4	8.1	29.5	5.8	89.6	4.7	7.2													
							Bottom	6.5	1	29.3	8.1	30.4	5.4	84.1	3.9	8.6													
									2	29.3	8.1	30.4	5.5	84.4	4.0	8.4													
		TCE-WQM2b	Fine	Moderate	11:18	11.7	Surface	1.0	1	29.7	8.2	28.4	6.1	93.9	5.4	7.8	5.9	7.2	6.6										
									2	29.6	8.2	28.4	6.1	93.8	5.5	7.4													
							Middle	5.9	1	29.4	8.2	29.5	5.6	86.8	7.4	6.4													
									2	29.4	8.2	29.5	5.7	87.0	8.0	6.8													
							Bottom	10.7	1	29.4	8.2	29.6	5.7	88.3	8.7	8.9													
									2	29.4	8.2	29.5	5.8	88.7	8.3	8.3													
		TCE-WQM3A	Fine	Moderate	10:52	4.5	Surface	1.0	1	29.4	8.2	27.5	6.5	99.2	5.5	7.7	6.5	6.1	8.4										
									2	29.4	8.2	27.5	6.5	99.2	5.5	7.2													
							Bottom	3.5	1	29.5	8.2	27.9	6.5	99.2	6.7	9.3													
									2	29.5	8.2	27.9	6.5	99.2	6.7	9.2													
							TCE-WQM4	Fine	Moderate	10:42	3.7	Surface	1.0	1	29.6	8.2				27.7	6.7	103.0	5.2	6.9	6.7	6.2	5.7		
														2	29.6	8.2				27.7	6.7	102.8	5.4	6.5					
		Bottom	2.7	1	29.5	8.2						27.8	6.7	101.6	7.1	4.9													
				2	29.4	8.2						27.8	6.7	101.7	7.3	4.5													
		2021-10-04	Mid-Flood	TCE-C1	Cloudy	Moderate						6:17	8.6	Surface	1.0	1	29.1	8.3	29.9	6.2	95.8	1.7	1.8	5.9				4.8	2.8
																2	29.1	8.3	29.9	6.2	95.6	1.7	1.5						
							Middle	4.3	1	29.2	8.3			30.8	5.5	85.3	4.8	2.6											
									2	29.2	8.3			30.8	5.5	85.1	4.9	2.6											
							Bottom	7.6	1	29.2	8.3			30.8	5.5	84.9	7.9	4.4											
									2	29.2	8.3			30.8	5.5	85.0	8.1	4.4											
				TCE-C2	Cloudy	Moderate	3:55	13.5	Surface	1.0	1	29.1	8.1	29.5	5.6	86.5	2.4	2.9	5.2	5.4	2.8								
											2	29.1	8.1	29.5	5.6	86.4	2.4	3.1											
									Middle	6.8	1	29.1	8.1	31.3	4.8	74.9	4.4	2.9											
											2	29.1	8.1	31.3	4.8	74.8	4.7	2.8											
Bottom	12.5								1	29.1	8.1	31.3	4.9	75.4	9.3	2.6													
									2	29.1	8.1	31.3	4.9	75.6	9.4	2.4													
TCE-WQM1	Cloudy			Moderate	5:04	8.2	Surface	1.0	1	29.4	8.2	28.2	6.0	91.1	5.6	7.1	6.0	5.8	5.5										
									2	29.4	8.2	28.2	6.0	91.1	5.6	6.8													
							Middle	4.1	1	29.4	8.2	28.2	6.0	91.9	5.8	5.3													
									2	29.4	8.2	28.2	6.0	92.0	5.9	5.2													
							Bottom	7.2	1	29.4	8.2	28.3	6.1	92.6	6.0	4.3													
									2	29.4	8.2	28.3	6.1	92.8	6.0	4.4													
TCE-WQM2a	Cloudy			Moderate	4:31	7.6	Surface	1.0	1	29.3	8.2	28.0	6.3	95.9	4.5	5.1	6.1	5.0	4.1										
									2	29.3	8.2	28.0	6.3	95.9	4.5	5.3													
							Middle	3.8	1	29.4	8.1	28.4	5.9	90.3	3.8	4.1													
									2	29.4	8.1	28.4	5.9	90.2	3.8	4.2													
							Bottom	6.6	1	29.4	8.1	29.1	5.6	85.5	6.4	2.8													
									2	29.4	8.1	29.1	5.6	85.5	6.7	3.1													
TCE-WQM2b	Cloudy			Moderate	4:19	12.0	Surface	1.0	1	29.3	8.1	28.3	5.9	90.3	3.3	2.6	5.7	7.4	3.4										
									2	29.3	8.1	28.4	5.9	90.2	3.5	2.8													
							Middle	6.0	1	29.4	8.1	29.7	5.4	83.6	6.7	3.7													
									2	29.4	8.1	29.7	5.4	83.5	6.8	3.5													
							Bottom	11.0	1	29.2	8.1	30.7	5.1	78.9	12.2	4.0													
									2	29.2	8.1	30.7	5.1	79.0	12.2	4.0													
TCE-WQM3A	Cloudy			Moderate	4:43	4.3	Surface	1.0	1	29.4	8.2	28.1	5.9	90.9	3.5	4.4	5.9	3.9	3.5										
									2	29.5	8.2	28.2	5.9	90.8	3.7	3.7													
							Bottom	3.3	1	29.5	8.1	28.4	6.0	91.8	4.1	2.8													
									2	29.5	8.1	28.4	6.0	91.9	4.1	3.0													
							TCE-WQM4	Cloudy	Moderate	4:52	3.6	Surface	1.0	1	29.4	8.2				27.7	6.5	98.9	4.5	4.0	6.5	4.9	3.6		
														2	29.4	8.2				27.7	6.5	98.6	4.5	3.9					
Bottom	2.6			1	29.4	8.2						27.8	6.4	97.8	5.2	3.4													
				2	29.4	8.2						27.8	6.4	97.7	5.3	3.1													

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)			
2021-10-06	Mid-Ebb	TCE-C1	Fine	Moderate	11:11	8.0	Surface	1.0	1	29.2	8.3	31.8	5.8	89.6	7.1	8.0	5.8	8.3	8.2			
									2	29.2	8.3	31.8	5.8	89.9	7.0	7.5						
							Middle	4.0	1	29.1	8.3	31.9	5.8	90.6	8.7	7.8						
									2	29.1	8.3	31.9	5.8	90.7	8.8	8.2						
							Bottom	7.0	1	29.1	8.3	31.9	5.9	90.9	9.1	9.0						
									2	29.1	8.3	31.9	5.9	90.8	9.0	8.8						
		TCE-C2	Fine	Moderate	12:53	12.6	Surface	1.0	1	29.5	8.2	29.2	5.9	91.0	4.4	8.2	5.9	5.3	7.3			
									2	29.5	8.2	29.2	5.9	91.4	4.0	8.5						
							Middle	6.3	1	29.5	8.2	29.2	5.9	91.1	5.5	7.0						
									2	29.5	8.2	29.2	5.9	91.0	5.5	7.5						
							Bottom	11.6	1	29.5	8.2	29.2	5.9	90.5	6.5	7.2						
									2	29.5	8.2	29.0	5.9	90.3	6.4	5.4						
		TCE-WQM1	Fine	Moderate	11:48	8.6	Surface	1.0	1	29.1	8.3	30.6	5.7	88.0	5.6	8.9	5.7	6.6	8.6			
									2	29.1	8.3	30.6	5.7	87.9	5.6	9.0						
							Middle	4.3	1	29.1	8.3	30.7	5.7	87.8	6.9	8.7						
									2	29.1	8.3	30.7	5.7	87.8	6.9	8.1						
							Bottom	7.6	1	29.1	8.3	30.8	5.7	88.5	7.2	8.2						
									2	29.1	8.4	30.8	5.8	88.9	7.3	8.6						
		TCE-WQM2a	Fine	Moderate	12:21	8.2	Surface	1.0	1	29.3	8.2	29.4	5.9	91.0	4.4	8.2	6.0	5.6	7.0			
									2	29.3	8.2	29.4	5.9	91.0	4.4	7.8						
							Middle	4.1	1	29.3	8.2	29.4	6.0	91.9	5.6	5.2						
									2	29.3	8.2	29.5	6.0	92.4	5.5	7.5						
							Bottom	7.2	1	29.3	8.2	29.5	6.1	94.4	6.9	6.5						
									2	29.3	8.2	29.5	6.2	95.7	6.9	7.0						
		TCE-WQM2b	Fine	Moderate	12:31	10.2	Surface	1.0	1	29.4	8.2	29.4	5.8	89.2	3.6	5.7	5.8	4.4	6.5			
									2	29.4	8.2	29.4	5.8	88.9	3.5	6.4						
							Middle	5.1	1	29.3	8.2	29.5	5.8	88.5	4.3	6.4						
									2	29.3	8.2	29.5	5.8	88.4	4.2	6.6						
							Bottom	9.2	1	29.3	8.2	29.5	6.1	94.1	5.5	6.5						
									2	29.3	8.2	29.5	6.2	95.0	5.5	7.2						
		TCE-WQM3A	Fine	Moderate	12:10	4.0	Surface	1.0	1	29.1	8.2	29.4	6.1	93.5	8.8	5.8	6.1	8.9	6.4			
									2	29.1	8.2	29.4	6.1	93.7	8.8	6.5						
							Bottom	3.0	1	29.1	8.2	29.3	6.2	94.5	9.1	6.6						
									2	29.1	8.2	29.3	6.2	94.9	9.0	6.6						
							Surface	1.0	1	29.3	8.2	29.3	6.1	93.6	7.2	6.4				6.1	7.6	6.4
									2	29.3	8.2	29.3	6.1	93.8	7.1	6.0						
		Bottom	3.0	1	29.2	8.2	29.3	6.2	95.5	8.0	6.1											
				2	29.2	8.2	29.3	6.3	96.2	8.0	6.9											
		Surface	1.0	1	29.3	8.2	29.3	6.1	93.6	7.2	6.4	6.2	7.6	6.4								
				2	29.3	8.2	29.3	6.1	93.8	7.1	6.0											
		Bottom	3.0	1	29.2	8.2	29.3	6.2	95.5	8.0	6.1											
				2	29.2	8.2	29.3	6.3	96.2	8.0	6.9											
		Surface	1.0	1	29.2	8.3	31.8	5.7	88.2	6.2	7.5				5.7	7.1	6.9					
				2	29.2	8.3	31.8	5.7	88.1	6.2	7.1											
		Middle	4.0	1	29.2	8.3	31.9	5.7	88.3	7.2	7.0											
				2	29.2	8.3	31.9	5.7	88.4	7.2	6.4											
		Bottom	7.0	1	29.2	8.3	31.9	5.7	88.8	8.0	6.9											
				2	29.2	8.3	31.9	5.7	89.0	8.0	6.2											
TCE-C2	Fine	Moderate	6:04	12.8	Surface	1.0	2	29.0	8.1	30.3	5.3	81.1	5.9	7.2	5.1	6.4	7.0					
							2	29.0	8.1	30.4	5.3	81.0	5.8	7.5								
					Middle	6.4	1	29.0	8.1	31.1	4.9	75.4	6.2	7.5								
							2	29.0	8.1	31.1	4.9	75.5	6.2	6.8								
					Bottom	11.8	1	29.0	8.1	31.1	5.0	76.5	7.0	6.7								
							2	29.0	8.1	31.1	5.0	76.9	7.1	6.2								
TCE-WQM1	Fine	Moderate	7:15	8.2	Surface	1.0	1	29.2	8.2	29.5	5.7	87.8	5.3	5.9	5.8	6.2	6.8					
							2	29.2	8.2	29.5	5.7	88.1	5.3	5.3								
					Middle	4.1	1	29.2	8.2	29.5	5.8	89.4	6.4	6.8								
							2	29.2	8.2	29.5	5.8	89.7	6.4	7.4								
					Bottom	7.2	1	29.2	8.2	29.5	6.0	91.5	7.1	7.2								
							2	29.2	8.2	29.5	6.0	92.2	7.0	8.0								
TCE-WQM2a	Fine	Moderate	6:37	7.0	Surface	1.0	1	29.2	8.1	29.7	5.5	84.3	4.0	5.7	5.5	5.2	5.8					
							2	29.2	8.1	29.7	5.5	84.3	4.0	5.2								
					Middle	3.5	1	29.2	8.1	29.8	5.5	84.4	5.6	6.0								
							2	29.2	8.1	29.8	5.5	84.4	5.7	6.6								
					Bottom	6.0	1	29.2	8.1	29.7	5.5	84.6	6.1	3.4								
							2	29.2	8.1	29.7	5.5	84.6	6.1	8.1								
TCE-WQM2b	Fine	Moderate	6:26	10.4	Surface	1.0	1	29.2	8.1	29.8	5.6	85.3	4.3	6.2	5.6	5.4	6.8					
							2	29.2	8.1	29.8	5.6	85.3	4.4	5.8								
					Middle	5.2	1	29.2	8.1	29.8	5.6	85.9	5.5	6.3								
							2	29.2	8.1	29.8	5.6	86.0	5.5	7.0								
					Bottom	9.4	1	29.1	8.2	29.8	5.7	87.3	6.5	8.0								
							2	29.1	8.2	29.8	5.7	87.9	6.4	7.5								
TCE-WQM3A	Fine	Moderate	6:49	4.0	Surface	1.0	1	29.1	8.2	29.1	6.1	94.0	4.2	6.7	6.2	4.7	6.2					
							2	29.1	8.2	29.1	6.2	94.4	4.2	5.8								
					Bottom	3.0	1	29.1	8.2	29.1	6.3	96.4	5.2	5.8								
							2	29.1	8.2	29.1	6.3	97.0	5.2	6.6								
					Surface	1.0	1	29.1	8.2	29.1	5.9	90.3	5.3	7.8				5.9	5.7	8.2		
							2	29.1	8.2	29.1	5.9	90.4	5.3	8.8								
Bottom	2.6	1	29.2	8.2	29.1	6.0	91.4	6.1	8.4													
		2	29.2	8.2	29.0	6.0	91.7	6.1	7.6													

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)			
2021-10-11	Mid-Ebb	TCE-C1	Cloudy	Rough	5:32	8.3	Surface	1.0	1	27.7	8.1	28.3	5.9	87.1	8.9	12.5	5.9	10.3	11.3			
									2	27.7	8.1	28.3	5.9	87.2	8.1	13.1						
							Middle	4.2	1	27.6	8.1	28.7	5.9	87.4	10.5	10.4						
									2	27.6	8.1	28.7	5.9	87.4	10.8	11.5						
							Bottom	7.3	1	27.5	8.1	29.3	5.9	87.6	11.8	10.6						
									2	27.5	8.1	29.3	5.9	87.6	11.7	9.9						
		TCE-C2	Cloudy	Moderate	3:35	13.2	Surface	1.0	1	27.9	8.1	27.0	5.9	86.6	6.6	18.4	5.8	9.8	15.9			
									2	27.9	8.1	27.0	5.9	86.6	6.8	19.1						
							Middle	6.6	1	27.8	8.1	27.5	5.8	86.5	10.4	15.8						
									2	27.8	8.1	27.5	5.8	86.5	10.5	14.7						
							Bottom	12.2	1	27.8	8.1	27.7	5.8	86.6	12.2	13.3						
									2	27.8	8.1	27.7	5.8	86.6	12.4	14.3						
		TCE-WQM1	Cloudy	Moderate	4:54	8.1	Surface	1.0	1	27.3	8.2	26.9	5.7	83.9	5.0	9.2	5.8	7.3	11.1			
									2	27.3	8.2	26.9	5.7	83.9	5.2	10.2						
							Middle	4.1	1	27.4	8.2	27.5	5.8	85.4	7.1	12.1						
									2	27.4	8.2	27.6	5.8	85.7	7.0	11.3						
							Bottom	7.1	1	27.3	8.2	29.0	5.9	87.4	9.4	12.6						
									2	27.3	8.2	29.0	5.9	87.5	10.0	11.2						
		TCE-WQM2a	Cloudy	Moderate	4:18	6.8	Surface	1.0	1	27.5	8.2	27.8	5.7	84.6	6.2	12.0	5.7	9.2	12.5			
									2	27.5	8.2	27.8	5.7	84.6	6.2	11.0						
							Middle	3.4	1	27.6	8.1	28.0	5.6	83.4	8.2	13.2						
									2	27.6	8.1	28.1	5.6	83.1	9.8	12.4						
							Bottom	5.8	1	27.7	8.1	28.4	5.0	73.8	12.4	13.4						
									2	27.7	8.1	28.4	5.0	74.0	12.4	12.9						
		TCE-WQM2b	Cloudy	Moderate	4:06	10.7	Surface	1.0	1	27.9	8.1	27.0	5.8	86.5	6.2	16.0	5.8	8.3	13.7			
									2	27.9	8.1	27.0	5.8	86.5	6.4	15.2						
							Middle	5.4	1	27.9	8.1	27.4	5.8	86.2	9.0	15.4						
									2	27.8	8.1	27.4	5.8	86.1	9.1	15.6						
							Bottom	9.7	1	27.8	8.1	27.6	5.8	86.1	9.8	9.6						
									2	27.8	8.1	27.6	5.8	86.1	9.5	10.4						
		TCE-WQM3A	Cloudy	Moderate	4:31	3.8	Surface	1.0	1	27.6	8.1	27.6	5.4	79.5	6.8	10.6	5.4	7.6	11.6			
									2	27.6	8.1	27.6	5.4	79.6	6.7	10.6						
							Bottom	2.8	1	27.6	8.1	28.1	5.5	80.9	8.2	13.1						
									2	27.6	8.1	28.1	5.5	81.1	8.7	12.2						
							Surface	1.0	1	27.5	8.1	27.8	5.8	86.0	7.4	12.5				5.8	9.0	11.7
									2	27.5	8.1	27.8	5.8	86.2	7.7	12.0						
		Bottom	2.1	1	27.5	8.1	27.9	5.9	86.8	10.7	10.7											
				2	27.5	8.1	27.9	5.9	86.9	10.3	11.7											
		Surface	1.0	1	27.7	8.2	28.2	5.9	87.4	8.2	8.7	5.9	10.4	9.2								
				2	27.7	8.2	28.3	5.9	87.4	8.4	9.4											
		Middle	4.2	1	27.5	8.1	28.9	5.9	87.3	11.9	9.1											
				2	27.5	8.1	28.9	5.9	87.4	11.0	9.2											
		Bottom	7.4	1	27.5	8.1	30.1	5.9	88.5	12.3	9.4											
				2	27.5	8.1	30.1	5.9	88.6	10.5	9.3											
		TCE-C2	Cloudy	Moderate	11:28	13.6	Surface	1.0	1	27.9	8.1	29.1	5.5	82.8	8.3	12.4	5.5	9.6	13.7			
									2	27.9	8.1	29.2	5.5	82.7	8.4	12.9						
							Middle	6.8	1	27.9	8.1	29.6	5.5	82.3	8.3	12.7						
									2	27.9	8.1	29.6	5.5	82.4	8.5	13.9						
Bottom	12.6						1	27.9	8.1	29.6	5.6	84.7	12.2	15.7								
							2	27.9	8.1	29.6	5.7	84.9	12.1	14.4								
TCE-WQM1	Cloudy	Moderate	10:09	8.8	Surface	1.0	1	27.5	8.2	27.3	5.8	84.8	6.7	6.8	5.7	7.9	6.8					
							2	27.5	8.2	27.4	5.7	84.8	7.2	7.5								
					Middle	4.4	1	27.5	8.2	28.0	5.7	84.5	8.6	7.0								
							2	27.5	8.2	28.0	5.7	84.5	8.7	6.2								
					Bottom	7.8	1	27.5	8.2	27.8	5.7	84.8	8.3	6.4								
							2	27.5	8.2	27.7	5.8	84.9	7.9	6.6								
TCE-WQM2a	Cloudy	Moderate	10:48	6.8	Surface	1.0	1	27.9	8.1	27.7	5.9	87.4	7.9	7.3	5.8	11.2	9.3					
							2	27.9	8.1	27.7	5.9	87.4	7.9	7.9								
					Middle	3.4	1	27.8	8.1	27.7	5.8	85.9	13.3	8.9								
							2	27.8	8.1	27.8	5.8	85.9	13.7	9.8								
					Bottom	5.8	1	27.7	8.1	27.8	5.8	85.4	12.2	10.6								
							2	27.7	8.1	27.8	5.8	85.4	12.5	11.3								
TCE-WQM2b	Cloudy	Moderate	10:59	10.4	Surface	1.0	1	27.8	8.2	28.1	5.8	86.4	9.4	13.4	5.8	12.0	15.4					
							2	27.8	8.2	28.1	5.8	86.3	9.7	14.1								
					Middle	5.2	1	27.8	8.2	28.3	5.8	86.2	12.8	15.5								
							2	27.8	8.2	28.3	5.8	86.3	12.9	14.6								
					Bottom	9.4	1	27.8	8.2	28.3	5.8	87.0	13.5	17.1								
							2	27.8	8.2	28.3	5.8	87.0	13.4	17.5								
TCE-WQM3A	Cloudy	Moderate	10:38	3.6	Surface	1.0	1	27.7	8.2	25.9	5.6	82.3	10.2	9.3	5.6	11.2	11.9					
							2	27.7	8.2	25.9	5.6	82.2	10.3	9.8								
					Bottom	2.6	1	27.7	8.2	27.9	5.6	83.4	11.3	14.9								
							2	27.7	8.2	27.8	5.6	83.6	13.0	13.6								
					Surface	1.0	1	27.7	8.1	27.4	5.9	87.8	12.0	7.0				5.9	11.5	16.8		
							2	27.7	8.1	27.4	5.9	87.8	11.9	6.0								
Bottom	2.2	1	27.7	8.1	27.4	6.0	88.7	11.2	26.6													
		2	27.7	8.1	27.4	6.0	88.9	10.9	27.6													

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)		
2021-10-15	Mid-Ebb	TCE-C1	Rainy	Rough	9:55	7.9	Surface	1.0	1	26.9	8.2	28.8	6.0	88.8	3.9	6.7	5.9	5.1	6.7		
									2	26.9	8.2	28.8	6.0	88.7	3.9	6.4					
							Middle	4.0	1	27.1	8.1	29.8	5.8	85.4	3.7	7.3					
									2	27.1	8.1	29.8	5.8	85.4	3.8	6.5					
							Bottom	6.9	1	27.0	8.1	30.9	5.6	84.0	7.7	7.0					
									2	27.1	8.1	30.9	5.6	84.0	7.7	6.2					
		TCE-C2	Cloudy	Rough	7:58	16.1	Surface	1.0	1	26.9	8.2	30.8	6.0	89.8	4.1	5.2	5.9	6.7	5.5		
									2	26.9	8.2	30.8	6.0	89.8	4.2	4.7					
							Middle	8.1	1	27.0	8.2	31.3	5.8	87.0	6.8	5.2					
									2	27.0	8.2	31.3	5.8	87.0	6.9	6.0					
							Bottom	15.1	1	27.2	8.2	32.4	5.5	82.3	9.1	5.4					
									2	27.2	8.2	32.4	5.5	82.4	9.1	6.3					
		TCE-WQM1	Rainy	Moderate	9:12	9.9	Surface	1.0	1	26.9	8.2	28.8	6.0	88.7	3.9	10.0	5.9	6.5	10.3		
									2	26.9	8.2	28.8	6.0	88.6	3.9	9.5					
							Middle	5.0	1	27.1	8.2	30.1	5.7	85.1	6.1	10.6					
									2	27.1	8.2	30.2	5.7	85.1	6.1	10.0					
							Bottom	8.9	1	27.0	8.1	31.6	5.8	86.6	9.5	11.4					
									2	27.0	8.1	31.7	5.8	87.0	9.5	10.2					
		TCE-WQM2a	Cloudy	Rough	8:39	7.9	Surface	1.0	1	26.9	8.2	29.1	6.1	89.9	3.9	4.9	6.0	3.8	4.3		
									2	26.9	8.2	29.1	6.1	89.9	3.9	4.0					
							Middle	4.0	1	27.0	8.2	30.2	5.9	86.9	4.1	4.5					
									2	27.0	8.2	30.2	5.8	86.8	4.1	4.1					
							Bottom	6.9	1	27.1	8.1	31.7	5.5	82.3	3.5	4.3					
									2	27.1	8.1	31.7	5.5	82.5	3.5	3.9					
		TCE-WQM2b	Cloudy	Rough	8:29	11.8	Surface	1.0	1	26.9	8.2	30.8	6.1	90.0	3.8	4.7	6.0	5.1	5.4		
									2	26.9	8.2	30.8	6.1	90.0	3.8	5.2					
							Middle	5.9	1	27.0	8.2	31.1	5.9	87.9	5.2	5.6					
									2	27.0	8.2	31.1	5.9	87.9	5.2	5.2					
							Bottom	10.8	1	27.0	8.2	31.4	5.8	87.3	6.4	6.0					
									2	27.0	8.2	31.4	5.8	87.4	6.4	5.4					
		TCE-WQM3A	Cloudy	Moderate	8:51	4.7	Surface	1.0	1	27.0	8.2	29.5	6.0	88.1	3.2	5.4	6.0	4.1	5.3		
									2	27.0	8.2	29.4	6.0	88.2	3.2	4.5					
							Bottom	3.7	1	27.0	8.2	30.9	5.8	86.6	5.0	5.2					
									2	27.0	8.2	30.9	5.8	86.6	5.0	6.2					
							Surface	1.0	1	27.0	8.2	30.3	5.8	86.0	3.7	5.9					
									2	27.0	8.2	30.3	5.8	86.0	3.7	5.1					
		TCE-WQM4	Cloudy	Moderate	8:59	4.4	Bottom	3.4	1	27.0	8.1	31.3	5.4	80.8	4.9	5.2	5.8	4.3	5.2		
									2	27.0	8.1	31.3	5.4	80.8	4.9	5.2					
							Surface	1.0	1	27.0	8.2	30.3	5.8	86.0	3.7	5.9					
									2	27.0	8.2	30.3	5.8	86.0	3.7	5.1					
							Bottom	3.4	1	27.0	8.1	31.3	5.4	80.8	4.9	5.2					
									2	27.0	8.1	31.3	5.4	80.8	4.9	4.7					
		2021-10-15	Mid-Flood	TCE-C1	Rainy	Rough	15:06	7.4	Surface	1.0	1	26.9	8.2	30.6	6.6	99.3	3.2	11.6	6.4	6.2	9.9
											2	26.9	8.2	30.6	6.6	99.3	3.3	11.9			
									Middle	3.7	1	26.9	8.2	31.7	6.3	93.0	5.5	10.4			
											2	26.9	8.2	31.6	6.3	93.0	5.6	9.2			
									Bottom	6.4	1	26.9	8.2	32.0	6.1	90.9	9.8	7.6			
											2	26.9	8.2	32.0	6.1	90.9	9.8	7.6			
TCE-C2	Rainy			Rough	17:07	14.9	Surface	1.0	1	27.2	8.2	32.3	5.7	86.2	6.5	9.4	5.7	7.0	8.5		
									2	27.2	8.2	32.3	5.7	86.2	6.6	8.3					
							Middle	7.5	1	27.3	8.2	32.7	5.6	85.4	6.2	9.2					
									2	27.3	8.2	32.7	5.6	85.4	6.1	8.6					
							Bottom	13.9	1	27.3	8.2	32.7	5.6	85.5	8.2	8.0					
									2	27.3	8.2	32.7	5.7	85.6	8.2	7.4					
TCE-WQM1	Rainy			Moderate	15:47	9.6	Surface	1.0	1	27.2	8.2	29.3	6.1	90.0	5.7	4.9	5.9	7.9	6.1		
									2	27.2	8.2	29.2	6.1	90.3	5.7	4.7					
							Middle	4.8	1	27.1	8.1	30.4	5.7	85.4	6.8	7.0					
									2	27.1	8.1	30.4	5.7	85.4	6.8	5.8					
							Bottom	8.6	1	27.0	8.1	31.2	5.5	82.6	11.0	6.7					
									2	27.0	8.1	31.2	5.5	82.6	11.1	7.2					
TCE-WQM2a	Rainy			Rough	16:27	7.2	Surface	1.0	1	26.9	8.2	31.0	6.2	92.3	3.6	4.8	6.1	5.1	4.8		
									2	26.9	8.2	31.0	6.2	92.3	3.6	4.4					
							Middle	3.6	1	26.9	8.2	31.2	6.0	89.5	4.1	4.9					
									2	26.9	8.2	31.2	6.0	89.4	4.2	4.0					
							Bottom	6.2	1	27.0	8.2	31.4	5.7	85.5	7.5	5.6					
									2	27.0	8.2	31.4	5.7	85.3	7.6	4.8					
TCE-WQM2b	Rainy			Rough	16:38	10.2	Surface	1.0	1	27.0	8.2	31.3	6.0	90.1	3.9	4.5	5.9	6.9	4.3		
									2	27.0	8.2	31.3	6.0	90.0	3.9	5.0					
							Middle	5.1	1	27.1	8.2	31.8	5.8	87.6	7.6	4.3					
									2	27.1	8.2	31.7	5.8	87.6	7.6	4.8					
							Bottom	9.2	1	27.1	8.2	31.9	5.9	88.1	9.4	3.2					
									2	27.1	8.2	31.9	5.9	88.2	9.4	4.0					
TCE-WQM3A	Rainy			Moderate	16:15	4.5	Surface	1.0	1	27.1	8.2	30.2	5.9	87.9	6.5	6.2	5.9	5.1	6.2		
									2	27.1	8.2	30.1	5.9	87.9	6.4	5.8					
							Bottom	3.5	1	27.1	8.2	31.4	5.4	80.4	3.8	6.7					
									2	27.1	8.2	31.4	5.4	80.6	3.8	5.9					
							Surface	1.0	1	27.1	8.2	30.9	6.0	89.0	7.0	8.2					
									2	27.1	8.2	30.9	6.0	89.0	7.1	7.9					
TCE-WQM4	Rainy			Moderate	16:04	4.1	Bottom	3.1	1	27.1	8.2	30.9	6.0	89.0	9.8	9.0	6.0	8.4	8.4		
									2	27.1	8.2	31.0	5.9	88.3	9.8	8.5					

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged												
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)										
2021-10-18	Mid-Ebb	TCE-C1	Cloudy	Moderate	9:51	9.0	Surface	1.0	1	26.6	8.2	33.9	6.1	92.2	10.2	4.9	6.1	11.3	4.5										
									2	26.6	8.2	33.9	6.1	92.1	10.4	5.6													
							Middle	4.5	1	26.6	8.2	33.9	6.1	92.1	12.2	4.3													
									2	26.6	8.2	33.9	6.1	92.1	12.2	4.0													
							Bottom	8.0	1	26.6	8.2	34.0	6.1	92.0	11.1	3.8													
									2	26.6	8.2	34.0	6.1	92.0	11.9	4.3													
		TCE-C2	Cloudy	Moderate	11:40	13.4	Surface	1.0	1	27.0	8.2	33.5	5.6	85.1	3.5	4.2	5.6	7.1	4.8										
									2	27.0	8.2	33.5	5.6	84.8	7.0	4.2													
							Middle	6.7	1	27.0	8.2	33.5	5.6	84.8	7.6	4.6													
									2	27.0	8.2	33.5	5.6	85.0	10.4	5.9													
							Bottom	12.4	1	27.0	8.2	33.5	5.6	85.1	10.5	6.0													
									2	27.0	8.2	33.5	5.6	85.1	10.5	6.0													
		TCE-WQM1	Cloudy	Moderate	10:31	8.5	Surface	1.0	1	26.1	8.2	31.9	6.2	91.0	7.3	3.7	6.2	10.3	5.3										
									2	26.1	8.2	31.9	6.2	91.0	7.6	4.3													
							Middle	4.3	1	26.1	8.2	32.3	6.2	91.3	10.7	7.9													
									2	26.1	8.2	32.3	6.2	91.4	11.1	7.8													
							Bottom	7.5	1	26.1	8.2	32.5	6.2	92.2	12.4	3.8													
									2	26.1	8.2	32.5	6.2	92.5	12.7	4.5													
		TCE-WQM2a	Cloudy	Moderate	10:58	7.2	Surface	1.0	1	26.4	8.2	31.9	6.1	90.6	4.0	3.2	6.0	6.1	4.0										
									2	26.4	8.2	31.9	6.1	90.6	4.0	2.6													
							Middle	3.6	1	26.6	8.2	32.7	5.9	88.8	5.6	4.5													
									2	26.6	8.2	32.7	5.9	88.8	5.8	4.6													
							Bottom	6.2	1	26.7	8.2	33.2	6.0	90.1	8.4	4.6													
									2	26.7	8.2	33.2	6.0	90.3	8.7	4.7													
		TCE-WQM2b	Cloudy	Moderate	11:10	11.8	Surface	1.0	1	26.7	8.2	32.9	5.9	88.7	3.7	3.2	5.8	6.7	4.2										
									2	26.7	8.2	32.9	5.9	88.6	3.7	3.6													
							Middle	5.9	1	26.9	8.2	33.4	5.7	85.8	7.9	4.5													
									2	26.9	8.2	33.4	5.7	85.9	8.1	3.9													
							Bottom	10.8	1	26.9	8.2	33.4	5.8	87.2	8.6	3.4													
									2	26.9	8.2	33.4	5.8	87.4	8.5	4.6													
		TCE-WQM3A	Cloudy	Moderate	10:49	4.3	Surface	1.0	1	26.4	8.2	31.7	6.1	89.7	6.1	4.8	6.0	7.2	5.1										
									2	26.4	8.2	31.7	6.0	89.6	6.1	4.3													
							Bottom	3.3	1	26.4	8.2	32.3	6.0	88.7	8.4	6.0													
									2	26.4	8.2	32.3	6.0	88.9	8.4	5.2													
							TCE-WQM4	Cloudy	Moderate	10:41	3.5	Surface	1.0	1	26.0	8.2				31.2	6.3	92.3	5.0	5.6	6.3	5.0	5.2		
														2	26.0	8.2				31.2	6.3	92.3	5.1	6.0					
		Bottom	2.5	1	26.1	8.2						31.4	6.3	92.3	4.9	5.0													
				2	26.1	8.2						31.4	6.3	92.5	4.9	4.2													
		2021-10-18	Mid-Flood	TCE-C1	Cloudy	Moderate						5:54	8.5	Surface	1.0	1	26.6	8.2	33.9	6.2	93.0	10.6	4.2	6.2				10.8	4.3
																2	26.6	8.2	33.9	6.2	93.1	10.6	3.2						
							Middle	4.3	1	26.5	8.2			33.9	6.2	93.5	12.4	4.5											
									2	26.5	8.2			33.9	6.2	93.6	13.7	3.8											
							Bottom	7.5	1	26.5	8.2			33.9	6.3	93.2	9.0	5.4											
									2	26.5	8.2			33.9	6.3	93.4	8.7	4.7											
				TCE-C2	Cloudy	Moderate	4:00	13.4	Surface	1.0	1	27.0	8.2	33.5	5.6	84.1	4.5	4.0	5.6	5.2	4.5								
											2	27.0	8.2	33.5	5.6	84.1	5.2	4.5											
									Middle	6.7	1	27.0	8.2	33.5	5.6	84.1	5.2	4.5											
											2	27.0	8.2	33.5	5.6	84.1	5.2	5.0											
Bottom	12.4								1	27.0	8.2	33.4	5.6	85.0	5.8	4.6													
									2	27.0	8.2	33.4	5.6	85.1	5.9	5.2													
TCE-WQM1	Cloudy			Moderate	5:12	8.2	Surface	1.0	1	26.1	8.2	31.5	6.1	89.9	5.5	4.4	6.1	7.8	4.9										
									2	26.1	8.2	31.5	6.1	89.9	5.4	5.0													
							Middle	4.1	1	26.1	8.2	31.6	6.1	90.3	7.7	4.8													
									2	26.1	8.2	31.6	6.1	90.5	8.0	5.1													
							Bottom	7.2	1	26.1	8.1	31.6	6.3	92.3	10.0	4.8													
									2	26.1	8.1	31.6	6.3	92.5	10.1	5.2													
TCE-WQM2a	Cloudy			Moderate	4:38	7.6	Surface	1.0	1	26.4	8.2	32.5	5.9	87.6	4.1	11.0	5.9	4.4	7.0										
									2	26.4	8.2	32.5	5.9	87.6	4.1	5.7													
							Middle	3.8	1	26.5	8.2	32.6	5.9	87.4	4.6	6.5													
									2	26.5	8.2	32.6	5.9	87.4	4.7	7.7													
							Bottom	6.6	1	26.5	8.1	32.6	5.9	88.6	4.5	5.8													
									2	26.5	8.1	32.6	6.0	88.6	4.5	5.4													
TCE-WQM2b	Cloudy	Moderate	4:27	11.6	Surface	1.0	1	26.5	8.2	32.8	5.8	86.4	5.1	3.9	5.7	6.4	5.2												
							2	26.6	8.2	32.8	5.8	86.3	5.2	4.8															
					Middle	5.8	1	26.7	8.1	33.1	5.7	85.9	6.2	4.3															
							2	26.7	8.1	33.1	5.7	85.9	6.3	6.5															
					Bottom	10.6	1	26.7	8.1	33.3	5.8	86.9	7.7	4.8															
							2	26.7	8.1	33.3	5.8	87.0	7.7	6.6															
TCE-WQM3A	Cloudy	Moderate	4:49	4.2	Surface	1.0	1	25.8	8.2	30.1	6.2	90.1	4.4	11.7	6.2	7.3	8.5												
							2	25.8	8.2	30.0	6.2	90.0	4.4	5.9															
					Bottom	3.2	1	26.5	8.1	32.3	5.9	88.2	10.0	11.1															
							2	26.5	8.1	32.4	5.9	88.3	10.5	5.3															
					TCE-WQM4	Cloudy	Moderate	4:59	3.3	Surface	1.0	1	26.0	8.2				31.3	6.2	90.9	3.8	3.8	6.2	3.8	4.4				
												2	26.0	8.2				31.3	6.2	90.9	3.8	4.2							
Bottom	2.3	1	26.1	8.2						31.5	6.2	91.9	3.8	4.7															
		2	26.1	8.2						31.5	6.2	92.0	3.7	5.0															

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)									
2021-10-20	Mid-Ebb	TCE-C1	Fine	Moderate	11:04	7.7	Surface	1.0	1	26.7	8.2	33.0	6.0	90.5	8.8	8.9	6.0	9.5	8.3									
									2	26.7	8.2	33.0	6.0	90.5	8.8	8.1												
							Middle	3.9	1	26.7	8.2	33.0	6.0	90.7	9.4	8.4												
									2	26.7	8.2	33.0	6.0	90.7	9.4	8.7												
							Bottom	6.7	1	26.7	8.2	33.1	6.1	91.8	10.3	7.5												
									2	26.7	8.2	33.1	6.1	92.0	10.3	8.0												
		TCE-C2	Fine	Moderate	13:07	12.3	Surface	1.0	1	27.0	8.2	33.4	5.6	84.9	4.4	1.7	5.6	5.1	9.2									
									2	27.0	8.2	33.4	5.6	84.8	4.4	9.6												
							Middle	6.2	1	26.9	8.2	33.6	5.5	83.2	5.3	10.7												
									2	26.9	8.2	33.6	5.5	83.3	5.3	11.3												
							Bottom	11.3	1	26.9	8.2	33.6	5.6	85.1	5.5	11.8												
									2	26.9	8.2	33.6	5.6	85.3	5.6	10.3												
		TCE-WQM1	Fine	Moderate	11:38	8.6	Surface	1.0	1	26.6	8.2	32.7	6.0	90.5	6.6	11.6	6.1	7.0	12.5									
									2	26.6	8.2	32.7	6.0	90.5	6.7	12.3												
							Middle	4.3	1	26.6	8.2	32.7	6.1	90.7	6.7	12.0												
									2	26.6	8.2	32.7	6.1	90.7	6.8	12.4												
							Bottom	7.6	1	26.6	8.2	32.7	6.2	93.3	7.7	12.8												
									2	26.6	8.2	32.7	6.3	93.6	7.7	13.7												
		TCE-WQM2a	Fine	Moderate	12:30	7.0	Surface	1.0	1	26.7	8.2	32.8	6.1	91.1	4.4	14.4	6.0	5.2	14.8									
									2	26.7	8.2	32.8	6.1	91.1	4.4	13.5												
							Middle	3.5	1	26.6	8.2	32.9	6.0	89.5	4.7	15.6												
									2	26.6	8.2	32.9	6.0	89.3	4.8	14.6												
							Bottom	6.0	1	26.6	8.2	32.9	6.1	90.8	6.4	15.8												
									2	26.6	8.2	32.9	6.1	91.5	6.5	15.0												
	TCE-WQM2b	Fine	Moderate	12:43	10.2	Surface	1.0	1	26.7	8.2	33.0	5.9	88.4	5.2	14.9	5.8	6.1	13.7										
								2	26.7	8.2	33.0	5.9	88.4	5.2	14.4													
						Middle	5.1	1	26.7	8.2	33.2	5.6	84.9	6.5	13.6													
								2	26.7	8.2	33.2	5.6	84.8	6.5	13.9													
						Bottom	9.2	1	26.7	8.2	33.2	5.7	85.1	6.7	12.7													
								2	26.7	8.2	33.2	5.7	85.2	6.7	12.8													
	TCE-WQM3A	Fine	Moderate	12:17	4.0	Surface	1.0	1	26.6	8.2	32.0	5.9	88.0	7.4	10.9	5.9	7.9	11.2										
								2	26.6	8.2	31.9	5.9	88.0	7.4	10.4													
						Bottom	3.0	1	26.7	8.2	32.6	6.0	89.4	8.3	12.4													
								2	26.7	8.2	32.6	6.0	90.2	8.3	11.1													
						TCE-WQM4	Fine	Moderate	11:54	3.4	Surface	1.0	1	26.6	8.2				32.4	6.2	92.6	4.1	11.9	6.2	4.1	10.6		
													2	26.6	8.2				32.4	6.2	92.7	4.1	11.5					
	Bottom	2.4	1	26.6	8.2						32.5	6.2	93.2	4.1	10.0													
			2	26.6	8.2						32.5	6.3	93.4	4.2	9.1													
	2021-10-20	Mid-Flood	TCE-C1	Fine	Moderate						7:50	8.0	Surface	1.0	1	26.7	8.2	33.0	6.0	90.4	9.2	5.6	6.0				9.9	5.8
															2	26.7	8.2	33.0	6.0	90.4	9.3	5.4						
						Middle	4.0	1	26.7	8.2			33.0	6.0	90.5	9.6	5.7											
								2	26.7	8.2			33.0	6.0	90.5	9.6	5.9											
						Bottom	7.0	1	26.7	8.2			33.0	6.0	90.4	11.0	5.9											
								2	26.7	8.2			33.0	6.0	90.4	11.0	6.0											
	TCE-C2		Fine	Moderate	5:56	12.8	Surface	1.0	1	26.8	8.2	33.3	5.5	83.5	7.2	6.0	5.5	7.7	6.7									
									2	26.8	8.2	33.3	5.5	83.5	7.2	6.9												
							Middle	6.4	1	26.8	8.2	33.3	5.5	83.5	7.6	6.3												
									2	26.8	8.2	33.3	5.5	83.5	7.6	7.0												
Bottom							11.8	1	26.8	8.1	33.3	5.7	86.2	8.3	6.7													
								2	26.8	8.1	33.3	5.7	86.4	8.3	7.5													
TCE-WQM1	Fine		Moderate	7:00	8.2	Surface	1.0	1	26.6	8.2	32.5	6.0	90.3	6.2	4.5	6.0	6.9	5.1										
								2	26.6	8.2	32.5	6.0	90.3	6.2	3.8													
						Middle	4.1	1	26.6	8.2	32.5	6.0	90.3	6.9	5.4													
								2	26.6	8.2	32.5	6.0	90.3	6.9	4.8													
						Bottom	7.2	1	26.6	8.2	32.5	6.1	90.9	7.6	5.6													
								2	26.6	8.2	32.4	6.1	91.0	7.7	6.4													
TCE-WQM2a	Fine		Moderate	6:29	7.0	Surface	1.0	1	26.5	8.2	32.8	6.0	90.0	5.6	6.4	6.0	6.1	5.8										
								2	26.5	8.2	32.8	6.0	90.0	5.6	5.8													
						Middle	3.5	1	26.5	8.2	32.9	6.1	90.8	6.2	5.6													
								2	26.5	8.2	32.9	6.1	91.0	6.1	6.2													
						Bottom	6.0	1	26.5	8.2	32.9	6.2	93.1	6.6	5.1													
								2	26.5	8.2	32.9	6.2	93.4	6.6	5.7													
TCE-WQM2b	Fine	Moderate	6:15	10.4	Surface	1.0	1	26.6	8.2	33.0	5.8	87.0	8.0	8.4	5.8	8.5	7.1											
							2	26.6	8.2	33.0	5.8	86.9	8.0	7.8														
					Middle	5.2	1	26.6	8.2	33.1	5.8	87.1	8.6	6.7														
							2	26.6	8.2	33.1	5.8	87.2	8.6	7.8														
					Bottom	9.4	1	26.6	8.2	33.1	5.9	88.0	9.1	6.2														
							2	26.6	8.2	33.1	5.9	88.2	9.0	5.6														
TCE-WQM3A	Fine	Moderate	6:35	4.0	Surface	1.0	1	26.7	8.2	32.6	5.9	87.9	4.5	5.8	5.9	4.9	5.7											
							2	26.7	8.2	32.6	5.9	87.9	4.5	4.6														
					Bottom	3.0	1	26.6	8.2	32.8	5.8	86.9	5.3	6.4														
							2	26.6	8.2	32.8	5.8	87.3	5.3	5.8														
					TCE-WQM4	Fine	Moderate	6:48	3.8	Surface	1.0	1	26.5	8.2				32.4	6.0	90.2	4.9	5.7	6.0	5.0	5.6			
												2	26.5	8.2				32.4	6.0	90.2	4.9	6.1						
Bottom	2.8	1	26.6	8.2						32.5	6.1	90.5	5.1	5.4														
		2	26.6	8.2						32.5	6.1	90.5	5.1	5.4														
		2	26.6	8.2						32.5	6.1	90.5	5.1	5.1														
		2	26.6	8.2						32.5	6.1	90.5	5.1	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)									
2021-10-22	Mid-Ebb	TCE-C1	Fine	Moderate	12:06	8.0	Surface	1.0	1	25.7	8.2	33.2	6.1	89.8	6.2	7.9	6.1	7.4	8.5									
									2	25.7	8.2	33.2	6.1	89.8	6.3	8.5												
							Middle	4.0	1	25.7	8.2	33.2	6.1	89.7	7.0	8.6												
									2	25.7	8.2	33.2	6.1	89.7	7.1	8.2												
							Bottom	7.0	1	25.7	8.2	33.2	6.1	89.6	9.0	8.9												
									2	25.7	8.2	33.2	6.1	89.6	8.9	8.6												
		TCE-C2	Fine	Moderate	13:46	12.6	Surface	1.0	1	26.4	8.2	33.3	5.8	86.8	2.7	8.8	5.8	3.7	9.4									
									2	26.4	8.2	33.3	5.8	86.9	2.8	9.3												
							Middle	6.3	1	26.4	8.2	33.3	5.9	87.7	3.9	8.9												
									2	26.4	8.2	33.3	6.0	88.0	4.6	10.4												
							Bottom	11.6	1	26.4	8.2	33.3	6.0	88.9	4.6	9.7												
									2	26.3	8.2	33.3	6.0	89.2	4.6	9.5												
		TCE-WQM1	Fine	Moderate	12:52	8.6	Surface	1.0	1	25.7	8.2	33.2	6.0	89.3	7.3	13.0	6.0	8.4	13.8									
									2	25.7	8.2	33.2	6.0	89.3	7.3	13.6												
							Middle	4.3	1	25.7	8.2	33.2	6.0	89.3	8.7	14.0												
									2	25.7	8.2	33.2	6.0	89.3	8.7	13.8												
							Bottom	7.6	1	25.7	8.2	33.2	6.1	89.4	9.2	14.2												
									2	25.7	8.2	33.2	6.1	89.5	9.2	14.4												
		TCE-WQM2a	Fine	Moderate	13:16	8.2	Surface	1.0	1	26.2	8.2	33.0	6.0	89.1	6.2	9.5	6.0	7.2	10.7									
									2	26.2	8.2	33.0	6.0	89.1	6.2	10.0												
							Middle	4.1	1	26.3	8.2	33.1	5.9	88.6	7.4	10.5												
									2	26.4	8.2	33.1	5.9	88.6	7.3	9.7												
							Bottom	7.2	1	26.5	8.2	33.2	6.0	89.7	8.1	12.0												
									2	26.4	8.2	33.2	6.1	90.6	8.1	12.4												
	TCE-WQM2b	Fine	Moderate	13:26	10.2	Surface	1.0	1	26.3	8.2	33.3	6.1	90.5	6.6	6.7	6.1	7.3	7.4										
								2	26.3	8.2	33.3	6.1	90.6	6.6	7.4													
						Middle	5.1	1	26.3	8.2	33.3	6.1	91.6	7.2	7.1													
								2	26.3	8.2	33.3	6.2	91.9	7.2	7.6													
						Bottom	9.2	1	26.3	8.2	33.3	6.3	93.5	8.2	8.2													
								2	26.3	8.2	33.3	6.3	94.5	8.1	7.4													
	TCE-WQM3A	Fine	Moderate	13:07	4.0	Surface	1.0	1	25.6	8.2	32.6	6.6	97.0	6.3	13.5	6.6	6.8	13.2										
								2	25.6	8.2	32.6	6.6	97.4	6.2	14.4													
						Bottom	3.0	1	25.5	8.2	32.6	6.8	99.5	7.3	12.7													
								2	25.6	8.2	32.6	6.8	100.0	7.4	12.0													
						TCE-WQM4	Fine	Moderate	12:56	4.0	Surface	1.0	1	25.5	8.2				32.9	6.5	95.2	7.7	12.8	6.5	7.9	12.9		
													2	25.5	8.2				32.9	6.5	96.2	7.8	13.1					
	Bottom	3.0	1	25.4	8.2						32.8	6.9	101.6	8.1	12.1													
			2	25.5	8.2						32.8	7.0	102.2	8.0	13.7													
	2021-10-22	Mid-Flood	TCE-C1	Fine	Moderate						9:17	8.0	Surface	1.0	1	25.7	8.2	33.2	6.1	89.6	4.0	20.2	6.1				5.6	18.6
															2	25.7	8.2	33.2	6.1	89.6	4.0	19.0						
						Middle	4.0	1	25.7	8.2			33.2	6.1	89.7	5.9	18.8											
								2	25.7	8.2			33.2	6.1	89.7	5.9	19.6											
						Bottom	7.0	1	25.7	8.2			33.2	6.1	89.7	6.8	16.6											
								2	25.7	8.2			33.2	6.1	89.7	6.8	17.2											
	TCE-C2		Fine	Moderate	7:28	12.8	Surface	1.0	1	25.7	8.2	33.1	6.5	95.3	7.6	10.8	6.5	8.4	9.7									
									2	25.7	8.2	33.1	6.5	95.5	7.5	9.9												
							Middle	6.4	1	25.7	8.2	33.1	6.5	96.2	8.6	9.4												
									2	25.6	8.2	33.1	6.6	96.7	8.7	10.5												
Bottom							11.8	1	25.6	8.2	33.1	6.7	98.4	9.1	9.2													
								2	25.7	8.1	33.1	6.8	99.1	9.0	8.6													
TCE-WQM1	Fine		Moderate	8:35	8.2	Surface	1.0	1	25.7	8.2	33.2	6.1	90.0	7.7	13.7	6.1	8.3	15.2										
								2	25.7	8.2	33.2	6.1	90.0	7.6	14.4													
						Middle	4.1	1	25.7	8.2	33.2	6.1	89.9	8.0	16.1													
								2	25.7	8.2	33.2	6.1	89.9	8.1	15.5													
						Bottom	7.2	1	25.7	8.2	33.2	6.1	90.0	9.1	15.2													
								2	25.7	8.2	33.2	6.1	90.0	9.1	16.2													
TCE-WQM2a	Fine		Moderate	8:04	7.0	Surface	1.0	1	25.7	8.2	33.2	6.1	90.8	5.3	12.8	6.1	6.3	16.8										
								2	25.7	8.2	33.2	6.1	90.8	5.3	13.4													
						Middle	3.5	1	25.7	8.2	33.1	6.2	91.0	6.5	16.5													
								2	25.7	8.2	33.1	6.2	91.0	6.4	15.6													
						Bottom	6.0	1	25.7	8.2	33.1	6.2	91.2	7.1	21.4													
								2	25.7	8.2	33.1	6.2	91.3	7.2	20.8													
TCE-WQM2b	Fine		Moderate	7:54	10.4	Surface	1.0	1	25.7	8.2	33.1	6.2	91.8	6.2	18.8	6.2	7.3	17.7										
								2	25.7	8.2	33.1	6.2	91.8	6.3	19.4													
						Middle	5.2	1	25.7	8.2	33.1	6.2	92.0	7.2	17.2													
								2	25.7	8.2	33.1	6.2	92.1	7.1	18.4													
						Bottom	9.4	1	25.7	8.2	33.1	6.2	92.3	8.6	15.7													
								2	25.7	8.2	33.1	6.2	92.3	8.7	16.4													
TCE-WQM3A	Fine		Moderate	8:16	4.0	Surface	1.0	1	25.6	8.2	33.2	6.2	91.0	5.2	13.2	6.2	5.8	13.4										
								2	25.6	8.2	33.2	6.2	90.9	5.3	13.7													
						Bottom	3.0	1	25.6	8.2	33.2	6.1	90.4	6.3	12.9													
								2	25.6	8.2	33.1	6.1	90.4	6.4	13.6													
						TCE-WQM4	Fine	Moderate	8:25	3.6	Surface	1.0	1	25.6	8.2				33.2	6.1	90.5	3.9	11.5	6.1	4.2	12.5		
													2	25.6	8.2				33.2	6.1	90.5	3.9	12.2					
Bottom	2.6		1	25.6	8.2						33.2	6.1	90.8	4.5	13.6													
			2	25.6	8.2						33.2	6.2	90.9	4.6	12.8													

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)
2021-10-25	Mid-Ebb	TCE-C1	Sunny	Moderate	13:38	8.5	Surface	1.0	1	25.3	8.2	34.1	6.5	95.1	7.0	11.5	6.4	8.2	11.2
									2	25.3	8.2	34.1	6.5	95.1	7.0	12.4			
							Middle	4.3	1	25.2	8.2	34.0	6.4	94.5	8.0	12.0			
									2	25.2	8.2	34.0	6.4	94.5	8.1	11.2			
							Bottom	7.5	1	25.1	8.2	34.0	6.4	93.4	9.7	9.5			
									2	25.1	8.2	34.0	6.4	93.4	9.7	10.5			
		TCE-C2	Sunny	Rough	15:39	15.8	Surface	1.0	1	26.0	8.2	33.8	6.0	88.8	3.2	4.9	5.8	3.7	4.8
									2	26.0	8.2	33.8	6.0	88.8	3.2	5.5			
							Middle	7.9	1	26.0	8.2	33.8	5.7	84.8	3.5	4.4			
									2	26.0	8.2	33.8	5.7	84.8	3.5	5.2			
							Bottom	14.8	1	25.9	8.2	33.8	5.8	86.0	4.4	4.3			
									2	25.9	8.2	33.8	5.8	86.1	4.6	4.7			
		TCE-WQM1	Sunny	Moderate	14:26	9.7	Surface	1.0	1	24.7	8.2	33.1	6.4	92.8	5.6	7.8	6.4	5.8	7.5
									2	24.7	8.2	33.1	6.4	92.8	5.6	8.0			
							Middle	4.9	1	24.6	8.2	33.1	6.4	92.3	5.7	7.7			
									2	24.6	8.2	33.1	6.4	92.4	5.8	7.0			
							Bottom	8.7	1	24.6	8.2	33.1	6.4	92.6	6.2	7.5			
									2	24.6	8.2	33.1	6.4	92.7	6.2	6.8			
	TCE-WQM2a	Sunny	Rough	15:02	7.4	Surface	1.0	1	25.3	8.2	33.2	6.6	96.1	4.2	5.7	6.4	4.7	5.9	
								2	25.3	8.2	33.2	6.6	96.1	4.2	6.4				
						Middle	3.7	1	25.5	8.2	33.4	6.2	90.8	4.2	6.2				
								2	25.5	8.2	33.4	6.2	90.8	4.2	5.4				
						Bottom	6.4	1	25.4	8.2	33.4	6.1	90.4	5.6	5.4				
								2	25.4	8.2	33.4	6.2	90.6	5.6	6.0				
	TCE-WQM2b	Sunny	Rough	15:15	12.1	Surface	1.0	1	25.8	8.2	33.6	6.0	89.4	3.7	5.3	6.0	3.8	4.7	
								2	25.8	8.2	33.6	6.0	89.4	3.7	5.0				
						Middle	6.1	1	25.7	8.2	33.6	5.9	87.7	3.7	4.2				
								2	25.7	8.2	33.6	5.9	87.7	3.7	4.8				
						Bottom	11.1	1	25.6	8.2	33.6	5.9	87.5	4.1	4.7				
								2	25.6	8.2	33.6	5.9	87.5	4.2	4.2				
	TCE-WQM3A	Sunny	Moderate	14:51	4.7	Surface	1.0	1	25.2	8.2	32.9	6.1	90.0	7.4	10.4	6.1	8.1	10.8	
								2	25.2	8.2	32.9	6.1	90.0	7.5	9.9				
						Bottom	3.7	1	25.1	8.2	33.0	6.2	90.6	8.7	11.9				
								2	25.1	8.2	33.0	6.2	90.8	8.7	11.1				
								2	25.1	8.2	33.1	6.4	94.3	6.5	10.6				
								2	25.2	8.2	33.1	6.4	94.2	6.5	11.0				
TCE-WQM4	Sunny	Moderate	14:38	4.2	Surface	1.0	1	25.2	8.2	33.1	6.4	94.3	6.5	10.6	6.4	6.9	10.2		
							2	25.2	8.2	33.1	6.4	94.2	6.5	11.0					
					Bottom	3.2	1	24.8	8.2	33.1	6.3	91.6	7.4	9.8					
							2	24.8	8.2	33.1	6.3	91.7	7.4	9.3					
							2	24.8	7.9	32.2	6.5	94.6	5.5	11.2					
							2	24.8	7.9	32.2	6.5	94.5	5.6	10.5					
2021-10-25	Mid-Flood	TCE-C1	Sunny	Rough	10:55	8.1	Surface	1.0	1	24.8	7.9	32.2	6.5	94.6	5.5	11.2	6.5	6.5	10.2
									2	24.8	7.9	32.2	6.5	94.5	5.6	10.5			
							Middle	4.1	1	24.8	7.9	32.7	6.4	93.0	6.5	10.5			
									2	24.8	7.9	32.7	6.4	93.0	6.6	10.0			
							Bottom	7.1	1	24.9	7.8	33.0	6.4	92.9	7.5	9.0			
									2	24.9	7.8	33.0	6.4	92.9	7.5	9.7			
		TCE-C2	Sunny	Rough	8:55	14.6	Surface	1.0	1	25.7	8.0	32.5	5.8	85.6	8.4	10.2	5.8	8.6	7.8
									2	25.7	8.0	32.5	5.8	85.6	8.4	11.2			
							Middle	7.3	1	25.7	7.9	32.5	5.8	85.4	7.5	6.7			
									2	25.7	7.9	32.5	5.8	85.4	7.5	6.2			
							Bottom	13.6	1	25.7	7.9	32.5	5.8	85.1	9.8	6.2			
									2	25.7	7.9	32.5	5.8	85.1	9.8	6.4			
		TCE-WQM1	Sunny	Moderate	10:14	9.7	Surface	1.0	1	24.9	7.9	32.0	6.0	86.5	3.6	11.1	6.1	4.2	11.9
									2	24.9	7.9	32.0	6.0	86.5	3.6	16.7			
							Middle	4.9	1	24.7	7.9	32.0	6.2	89.6	4.3	10.6			
									2	24.7	7.9	32.0	6.2	89.6	4.3	11.0			
							Bottom	8.7	1	24.6	7.9	32.0	6.2	89.7	4.8	10.5			
									2	24.6	7.9	32.0	6.2	89.7	4.8	11.3			
	TCE-WQM2a	Sunny	Rough	9:39	7.8	Surface	1.0	1	25.5	7.9	32.3	5.9	86.0	3.9	11.1	5.9	4.5	11.5	
								2	25.5	7.9	32.3	5.9	86.0	3.9	10.5				
						Middle	3.9	1	25.5	7.8	32.3	5.9	86.2	4.2	12.0				
								2	25.5	7.8	32.3	5.9	86.2	4.2	11.7				
						Bottom	6.8	1	25.5	7.8	32.3	5.9	86.6	5.3	12.5				
								2	25.5	7.8	32.3	5.9	86.6	5.3	11.2				
	TCE-WQM2b	Sunny	Rough	9:28	11.5	Surface	1.0	1	25.5	7.8	32.4	6.0	87.3	6.0	9.4	5.9	7.6	10.7	
								2	25.5	7.8	32.4	6.0	87.3	6.0	10.8				
						Middle	5.8	1	25.5	7.8	32.5	5.9	87.1	7.0	10.6				
								2	25.5	7.7	32.5	5.9	87.2	7.1	11.2				
						Bottom	10.5	1	25.4	7.7	32.5	6.0	87.4	9.6	10.9				
								2	25.4	7.7	32.5	6.0	87.4	9.6	11.4				
	TCE-WQM3A	Sunny	Moderate	9:51	4.6	Surface	1.0	1	25.1	7.8	32.1	6.2	89.9	5.7	14.7	6.2	7.7	13.1	
								2	25.1	7.8	32.1	6.2	89.9	5.8	13.2				
						Bottom	3.6	1	25.1	7.7	32.2	6.3	90.9	9.6	11.7				
								2	25.1	7.7	32.2	6.3	91.1	9.6	12.7				
								2	25.1	7.9	32.1	6.2	89.5	5.4	10.2				
								2	25.0	7.9	32.1	6.2	89.4	5.4	10.0				
TCE-WQM4	Sunny	Moderate	10:00	4.2	Surface	1.0	1	25.1	7.9	32.1	6.2	89.5	5.4	10.2	6.2	5.5	10.1		
							2	25.0	7.9	32.1	6.2	89.4	5.4	10.0					
					Bottom	3.2	1	25.0	7.8	32.1	6.1	89.1	5.5	9.6					
							2	25.0	7.8	32.1	6.1	89.1	5.5	9.6					
							2	25.0	7.8	32.1	6.1	89.1	5.6	10.4					
							2	25.0	7.8	32.1	6.1	89.1	5.6	10.4					

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)										
2021-10-27	Mid-Ebb	TCE-C1	Fine	Moderate	5:17	8.0	Surface	1.0	1	25.3	8.2	33.5	6.5	95.1	5.4	2.5	6.5	6.0	3.1										
									2	25.3	8.2	33.5	6.5	95.0	5.4	2.6													
							Middle	4.0	1	25.3	8.2	33.5	6.4	94.6	5.8	3.0													
									2	25.3	8.2	33.5	6.4	94.6	5.8	3.0													
							Bottom	7.0	1	25.3	8.2	33.5	6.5	95.5	6.8	3.7													
									2	25.3	8.2	33.5	6.5	95.7	6.8	3.5													
		TCE-C2	Fine	Moderate	4:00	12.8	Surface	1.0	1	25.5	8.2	33.5	6.0	88.9	3.6	2.6	6.0	4.5	2.9										
									2	25.5	8.2	33.5	6.0	88.9	3.7	2.7													
							Middle	6.4	1	25.5	8.2	33.5	6.0	88.5	4.1	2.9													
									2	25.5	8.2	33.5	6.0	88.5	4.1	2.9													
							Bottom	11.8	1	25.5	8.1	33.4	6.0	88.6	5.7	3.1													
									2	25.5	8.1	33.4	6.0	88.6	5.7	3.2													
		TCE-WQM1	Fine	Moderate	5:11	8.2	Surface	1.0	1	25.4	8.2	33.3	6.5	95.8	4.5	2.8	6.5	5.1	3.2										
									2	25.4	8.2	33.3	6.5	95.8	4.5	3.0													
							Middle	4.1	1	25.2	8.2	33.4	6.4	94.1	5.4	3.0													
									2	25.2	8.2	33.4	6.4	94.1	5.4	3.3													
							Bottom	7.2	1	25.2	8.2	33.4	6.5	95.1	5.5	3.7													
									2	25.2	8.2	33.4	6.5	95.2	5.5	3.4													
		TCE-WQM2a	Fine	Moderate	4:37	7.0	Surface	1.0	1	25.2	8.2	33.1	6.6	96.5	3.6	3.4	6.6	4.7	4.0										
									2	25.2	8.2	33.1	6.6	96.5	3.6	3.7													
							Middle	3.5	1	25.2	8.2	33.1	6.5	95.6	5.2	4.0													
									2	25.2	8.2	33.1	6.5	95.6	5.2	4.2													
							Bottom	6.0	1	25.2	8.2	33.1	6.6	96.3	5.3	4.5													
									2	25.2	8.2	33.1	6.6	96.5	5.3	4.4													
		TCE-WQM2b	Fine	Moderate	4:22	10.4	Surface	1.0	1	25.2	8.2	33.2	6.4	93.5	3.3	3.0	6.4	3.6	3.7										
									2	25.2	8.2	33.2	6.4	93.5	3.3	2.9													
							Middle	5.2	1	25.1	8.2	33.2	6.4	93.6	3.6	3.9													
									2	25.1	8.2	33.2	6.4	93.6	3.6	3.8													
							Bottom	9.4	1	25.2	8.2	33.2	6.4	94.3	3.7	4.2													
									2	25.2	8.2	33.2	6.4	94.4	3.7	4.4													
		TCE-WQM3A	Fine	Moderate	4:48	4.0	Surface	1.0	1	25.8	8.2	32.9	6.4	93.9	6.6	3.2	6.4	6.9	3.5										
									2	25.8	8.2	32.9	6.4	93.9	6.6	3.3													
							Bottom	3.0	1	25.7	8.1	33.3	6.3	93.3	7.3	3.9													
									2	25.7	8.1	33.3	6.3	93.8	7.3	3.6													
							TCE-WQM4	Fine	Moderate	4:57	3.8	Surface	1.0	1	25.7	8.2				33.3	6.5	95.5	5.0	3.9	6.5	5.2	3.6		
														2	25.7	8.2				33.3	6.5	95.5	5.1	3.9					
		Bottom	2.8	1	25.6	8.2						33.3	6.5	96.3	5.4	3.4													
				2	25.6	8.2						33.3	6.5	96.5	5.4	3.3													
		2021-10-27	Mid-Flood	TCE-C1	Fine	Moderate						14:57	7.7	Surface	1.0	1	25.3	8.2	33.6	6.4	94.6	5.6	7.8	6.4				6.2	6.9
																2	25.3	8.2	33.6	6.4	94.5	5.6	7.7						
							Middle	3.9	1	25.3	8.2			33.6	6.4	94.0	6.5	6.9											
									2	25.3	8.2			33.6	6.4	93.9	6.5	7.1											
							Bottom	6.7	1	25.2	8.2			33.6	6.4	94.2	6.6	5.8											
									2	25.2	8.2			33.6	6.4	94.3	6.6	6.3											
				TCE-C2	Fine	Moderate	16:15	12.3	Surface	1.0	2	26.1	8.2	33.8	5.7	85.4	3.3	4.1	5.7	3.8	3.4								
											1	26.1	8.2	33.8	5.7	85.3	3.3	3.8											
									Middle	6.2	1	26.0	8.2	33.8	5.7	84.9	4.0	3.4											
											2	26.0	8.2	33.8	5.7	84.9	4.1	3.8											
Bottom	11.3								1	26.0	8.2	33.8	5.7	85.6	4.1	2.6													
									2	26.0	8.2	33.8	5.7	85.6	4.1	2.4													
TCE-WQM1	Fine			Moderate	15:04	8.1	Surface	1.0	1	25.4	8.2	33.3	6.5	95.3	4.6	6.0	6.4	5.3	4.4										
									2	25.3	8.2	33.4	6.5	95.1	4.6	5.7													
							Middle	4.1	1	25.2	8.2	33.5	6.4	93.8	5.2	4.6													
									2	25.2	8.2	33.5	6.4	93.8	5.3	4.2													
							Bottom	7.1	1	25.2	8.2	33.5	6.4	94.2	6.1	2.8													
									2	25.2	8.2	33.5	6.4	94.3	6.1	3.2													
TCE-WQM2a	Fine			Moderate	15:36	7.0	Surface	1.0	1	25.3	8.2	33.2	6.6	96.7	3.8	2.4	6.6	5.6	3.1										
									2	25.3	8.2	33.2	6.6	96.7	3.8	2.7													
							Middle	3.5	1	25.3	8.2	33.2	6.5	96.1	5.3	3.1													
									2	25.3	8.2	33.2	6.5	96.0	5.2	3.0													
							Bottom	6.0	1	25.3	8.2	33.2	6.5	95.9	7.8	3.8													
									2	25.3	8.2	33.2	6.5	95.9	7.8	3.4													
TCE-WQM2b	Fine	Moderate	15:48	10.2	Surface	1.0	1	25.3	8.2	33.2	6.5	95.2	3.6	2.9	6.5	3.7	3.1												
							2	25.3	8.2	33.2	6.5	95.0	3.6	2.8															
					Middle	5.1	1	25.2	8.2	33.2	6.5	94.8	3.7	3.1															
							2	25.2	8.2	33.2	6.5	94.9	3.7	3.1															
					Bottom	9.2	1	25.2	8.2	33.2	6.6	96.2	3.8	3.4															
							2	25.2	8.2	33.2	6.6	96.3	3.9	3.5															
TCE-WQM3A	Fine	Moderate	15:25	4.0	Surface	1.0	1	25.8	8.2	33.2	6.6	97.4	6.0	7.2	6.6	6.2	7.5												
							2	25.8	8.2	33.2	6.5	96.9	6.1	6.7															
					Bottom	3.0	1	25.7	8.2	33.4	6.3	93.8	6.4	8.1															
							2	25.7	8.2	33.4	6.4	94.0	6.4	8.0															
					TCE-WQM4	Fine	Moderate	15:16	3.4	Surface	1.0	1	25.7	8.2				33.3	6.6	97.1	3.9	3.8	6.6	4.0	4.4				
												2	25.7	8.2				33.3	6.6	97.2	3.9	3.9							
Bottom	2.4	1	25.7	8.2						33.3	6.6	97.9	4.0	4.9															
		2	25.7	8.2						33.3	6.6	98.1	4.0	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)		
2021-10-29	Mid-Ebb	TCE-C1	Fine	Rough	7:48	7.5	Surface	1.0	1	25.7	8.1	32.0	6.4	93.4	2.1	1.7	6.3	4.9	2.3		
									2	25.7	8.1	32.0	6.4	93.3	2.1	2.4					
							Middle	3.8	1	25.7	8.1	32.3	6.3	92.7	5.0	2.7					
									2	25.7	8.1	32.3	6.3	92.7	5.1	1.9					
							Bottom	6.5	1	25.8	8.2	32.5	6.2	90.9	7.6	2.8					
									2	25.8	8.3	32.5	6.2	90.9	7.6	2.1					
		TCE-C2	Fine	Rough	5:45	15.2	Surface	1.0	1	25.7	8.1	32.0	6.4	93.7	2.3	2.0	6.3	3.4	1.4		
									2	25.7	8.1	32.0	6.4	93.7	2.3	1.4					
							Middle	7.6	1	25.6	8.1	32.0	6.2	90.6	3.3	1.4					
									2	25.6	8.1	32.0	6.2	90.6	3.3	1.0					
							Bottom	14.2	1	25.6	8.2	32.0	6.2	90.5	4.5	1.0					
									2	25.6	8.2	32.0	6.2	90.5	4.6	1.3					
		TCE-WQM1	Fine	Moderate	7:07	9.4	Surface	1.0	1	26.0	8.2	32.2	6.5	95.8	4.5	3.0	6.5	5.1	2.1		
									2	26.0	8.2	32.2	6.5	95.8	4.5	2.4					
							Middle	4.7	1	25.9	8.3	32.2	6.4	94.6	5.3	2.0					
									2	25.9	8.3	32.2	6.4	94.5	5.3	2.3					
							Bottom	8.4	1	25.8	8.3	32.2	6.4	93.6	5.6	1.3					
									2	25.8	8.3	32.2	6.4	93.6	5.6	1.4					
		TCE-WQM2a	Fine	Moderate	6:26	7.4	Surface	1.0	1	25.8	8.2	32.0	6.5	96.2	5.8	2.4	6.5	6.9	2.4		
									2	25.8	8.2	32.0	6.5	96.2	5.8	1.6					
							Middle	3.7	1	25.8	8.2	32.1	6.4	94.1	6.1	2.5					
									2	25.8	8.2	32.1	6.4	94.1	6.1	1.7					
							Bottom	6.4	1	25.8	8.2	32.1	6.4	93.5	8.9	2.8					
									2	25.8	8.2	32.1	6.4	93.5	8.8	3.1					
		TCE-WQM2b	Fine	Rough	6:12	11.9	Surface	1.0	1	25.5	8.0	31.8	6.5	94.8	3.3	1.2	6.4	6.2	1.8		
									2	25.5	8.0	31.8	6.5	94.8	3.4	1.8					
							Middle	6.0	1	25.6	8.0	31.9	6.4	93.3	5.5	1.8					
									2	25.6	8.0	31.9	6.4	93.3	5.5	2.0					
							Bottom	10.9	1	25.7	8.1	32.0	6.3	92.5	9.8	2.4					
									2	25.7	8.1	32.0	6.3	92.5	9.8	1.7					
		TCE-WQM3A	Fine	Moderate	6:39	5.1	Surface	1.0	1	26.0	8.2	31.7	6.4	93.9	5.2	1.4	6.4	5.8	1.6		
									2	26.0	8.2	31.7	6.4	93.9	5.2	2.3					
							Bottom	4.1	1	25.8	8.2	32.1	5.9	87.4	6.4	1.5					
									2	25.8	8.2	32.1	5.9	87.5	6.4	1.0					
							Bottom	4.1	1	25.8	8.2	32.1	5.9	87.4	6.4	1.5					
									2	25.8	8.2	32.1	5.9	87.5	6.4	1.0					
		TCE-WQM4	Fine	Moderate	6:50	4.6	Surface	1.0	1	25.8	8.2	32.1	6.6	97.0	3.2	1.5	6.6	3.8	1.8		
									2	25.8	8.2	32.1	6.6	97.0	3.3	2.2					
							Bottom	3.6	1	25.8	8.2	32.1	6.6	97.1	4.4	1.8					
									2	25.8	8.2	32.1	6.6	97.1	4.4	1.8					
							Bottom	3.6	1	25.8	8.2	32.1	6.6	97.1	4.4	1.8					
									2	25.8	8.2	32.1	6.6	97.1	4.4	1.8					
		2021-10-29	Mid-Flood	TCE-C1	Cloudy	Rough	17:15	7.8	Surface	1.0	1	25.8	8.2	31.6	6.5	95.8	1.7	5.6	6.4	4.2	5.4
											2	25.8	8.2	31.6	6.5	95.8	1.7	6.0			
									Middle	3.9	1	25.6	8.2	32.2	6.3	92.3	2.1	5.0			
											2	25.6	8.2	32.2	6.3	92.3	2.2	5.4			
									Bottom	6.8	1	25.8	8.1	32.6	6.0	89.0	8.9	5.3			
											2	25.8	8.1	32.6	6.0	89.0	8.9	5.0			
TCE-C2	Fine			Rough	19:13	15.1	Surface	1.0	1	26.0	8.1	32.4	6.0	88.3	3.0	3.0	5.8	3.1	3.2		
									2	26.0	8.1	32.4	6.0	88.2	3.1	3.8					
							Middle	7.6	1	26.1	8.1	32.5	5.6	83.3	2.3	3.5					
									2	26.1	8.1	32.5	5.6	83.3	2.3	3.0					
							Bottom	14.1	1	26.1	8.1	32.5	5.7	83.9	4.0	3.2					
									2	26.1	8.1	32.5	5.7	84.0	4.1	2.6					
TCE-WQM1	Cloudy			Moderate	17:58	9.2	Surface	1.0	1	26.1	8.3	32.1	6.5	96.0	4.8	6.1	6.5	5.2	6.6		
									2	26.1	8.3	32.1	6.5	96.0	4.8	6.4					
							Middle	4.6	1	26.0	8.3	32.2	6.6	96.8	4.4	6.9					
									2	26.0	8.3	32.2	6.5	96.7	4.5	6.7					
							Bottom	8.2	1	25.9	8.3	32.2	6.5	95.7	6.0	7.0					
									2	25.9	8.4	32.2	6.5	95.7	6.4	6.6					
TCE-WQM2a	Cloudy			Moderate	18:31	8.7	Surface	1.0	1	25.7	8.2	32.0	6.6	97.1	3.5	4.5	6.6	6.5	3.9		
									2	25.7	8.2	32.0	6.6	97.1	3.5	4.1					
							Middle	4.4	1	25.8	8.2	32.0	6.5	96.2	5.3	4.2					
									2	25.8	8.2	32.0	6.5	96.1	5.3	4.0					
							Bottom	7.7	1	25.8	8.2	32.1	6.5	95.6	10.7	3.3					
									2	25.8	8.2	32.1	6.5	95.6	10.7	3.4					
TCE-WQM2b	Fine			Rough	18:43	10.9	Surface	1.0	1	25.9	8.1	32.0	6.6	97.9	3.0	4.0	6.6	4.4	3.8		
									2	25.9	8.1	32.0	6.7	97.9	3.1	4.5					
							Middle	5.5	1	25.9	8.1	32.0	6.6	97.8	4.2	4.1					
									2	25.9	8.1	32.0	6.6	97.8	4.2	4.4					
							Bottom	9.9	1	25.9	8.1	32.0	6.6	97.8	5.9	3.2					
									2	25.9	8.1	32.0	6.6	97.8	5.9	2.7					
TCE-WQM3A	Fine			Moderate	18:21	4.7	Surface	1.0	1	26.2	8.1	31.9	6.6	97.9	4.6	7.0	6.6	5.3	5.9		
									2	26.2	8.1	31.9	6.6	97.8	4.7	5.5					
							Bottom	3.7	1	25.8	8.2	32.1	6.1	90.0	6.1	5.0					
									2	25.8	8.2	32.1	6.1	90.1	6.0	5.2					
							Bottom	3.7	1	25.8	8.2	32.1	6.1	90.0	6.1	5.0					
									2	25.8	8.2	32.1	6.1	90.1	6.0	5.2					
TCE-WQM4	Fine			Moderate	18:10	3.5	Surface	1.0	1	26.1	8.2	32.1	6.6	97.8	2.9	6.6	6.6	3.1	5.7		
									2	26.1	8.2	32.1	6.6	97.8	3.0	5.8					
							Bottom	2.5	1	26.0	8.2	32.1	6.6	97.6	3.2	5.4					
									2	26.0	8.2	32.1	6.6	97.6	3.2	5.4					
							Bottom	2.5	1	26.0	8.2	32.1	6.6	97.6	3.2	5.4					
									2	26.0	8.2	32.1	6.6	97.7	3.2	5.1					