

Annex G3

## Monitoring Results for Water Quality

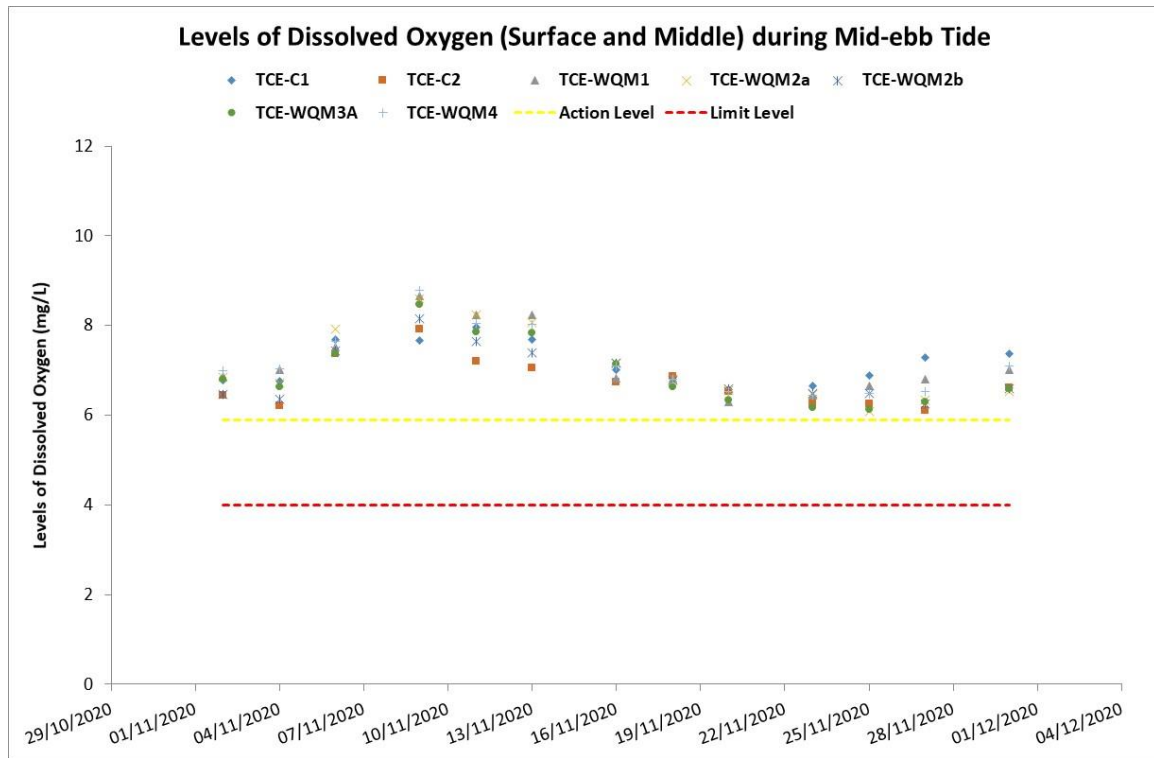


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 November 2020

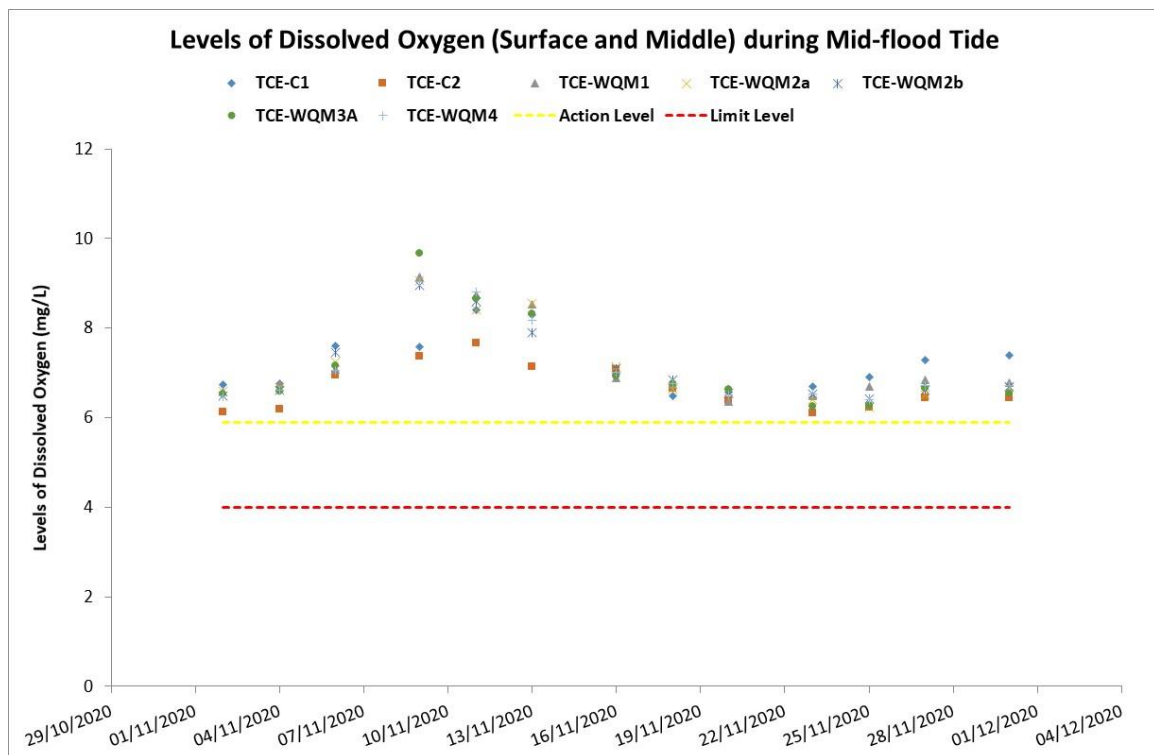


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 November 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: November 2020

**Environmental  
 Resources  
 Management**



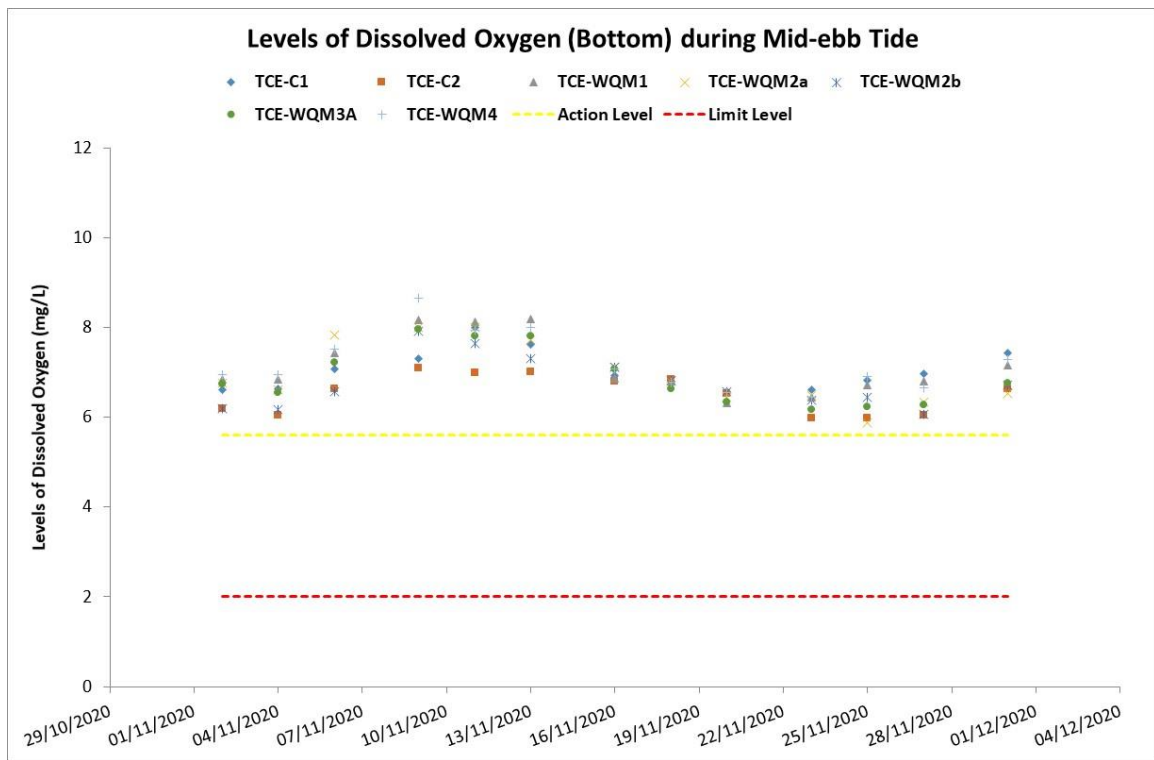


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 November 2020

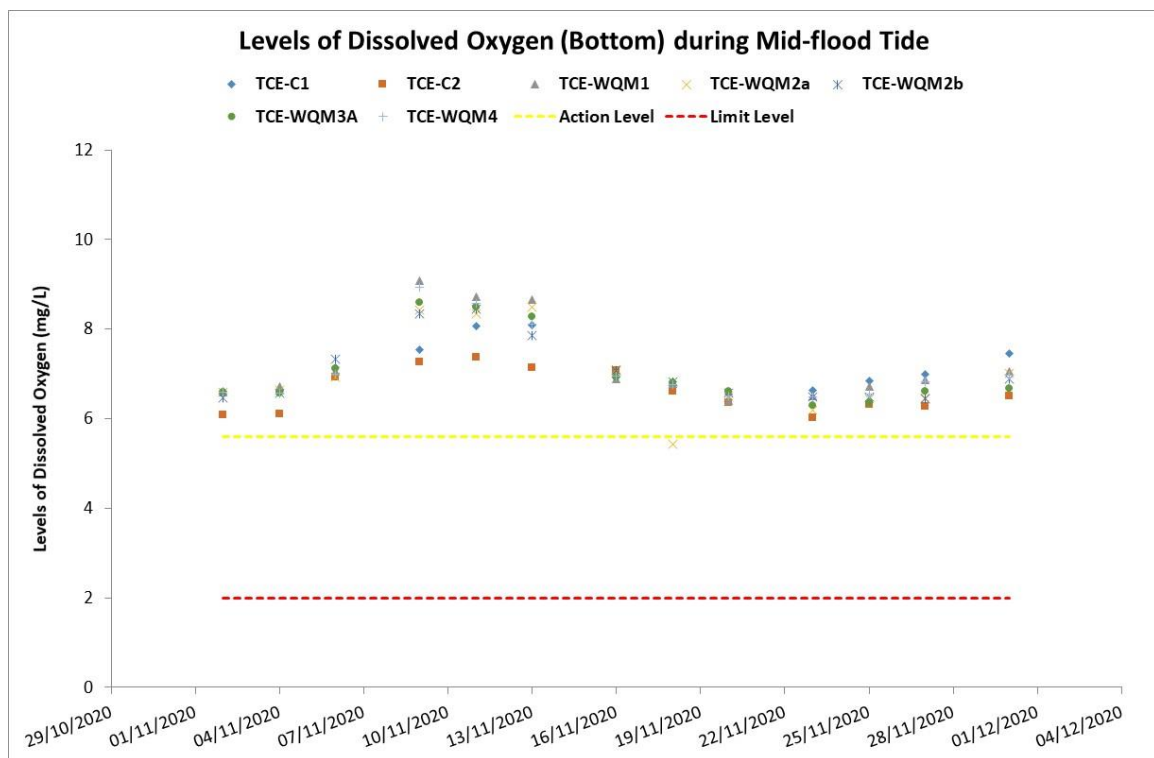


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 November 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\ 10 Monthly EM&A Report\  
 Date: November 2020

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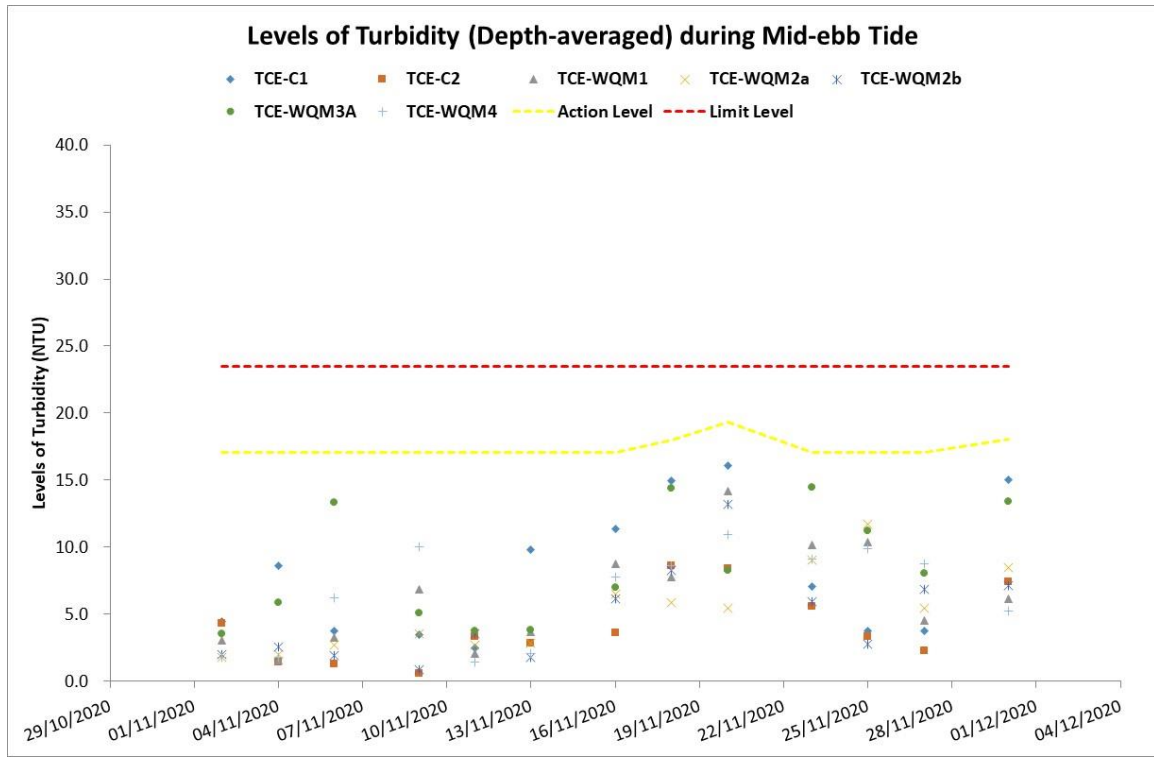


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 November 2020

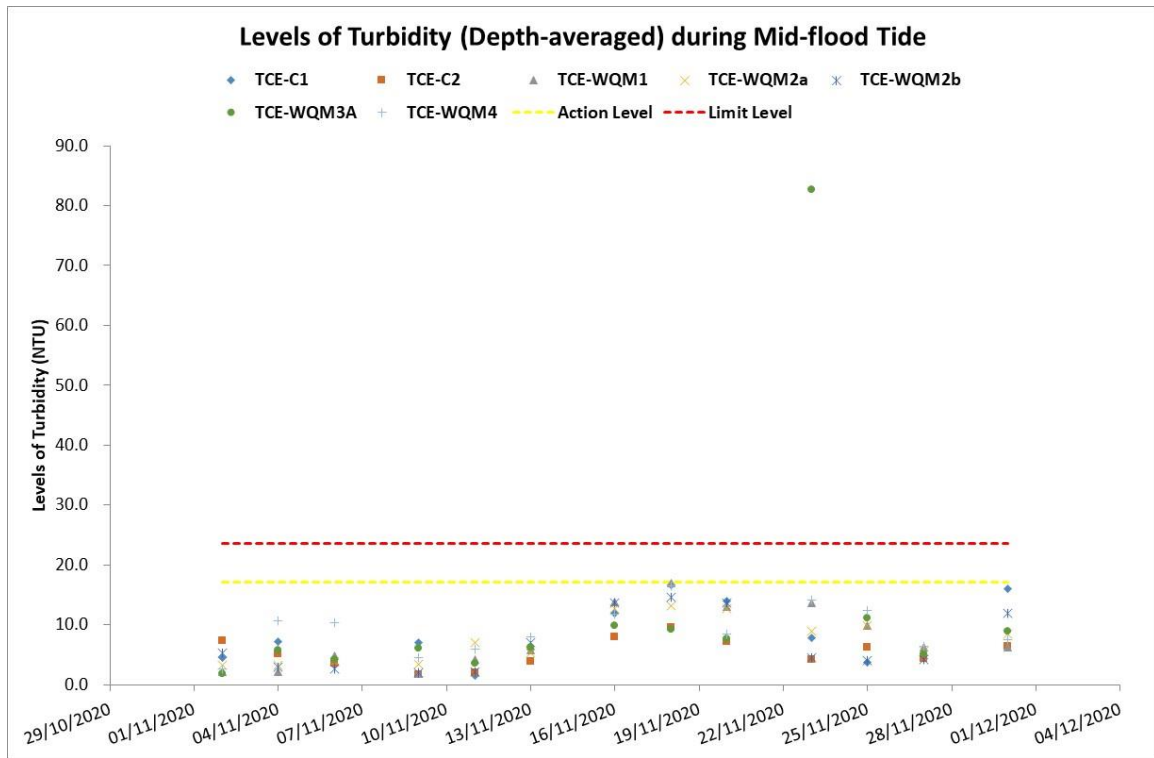


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 November 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: November 2020

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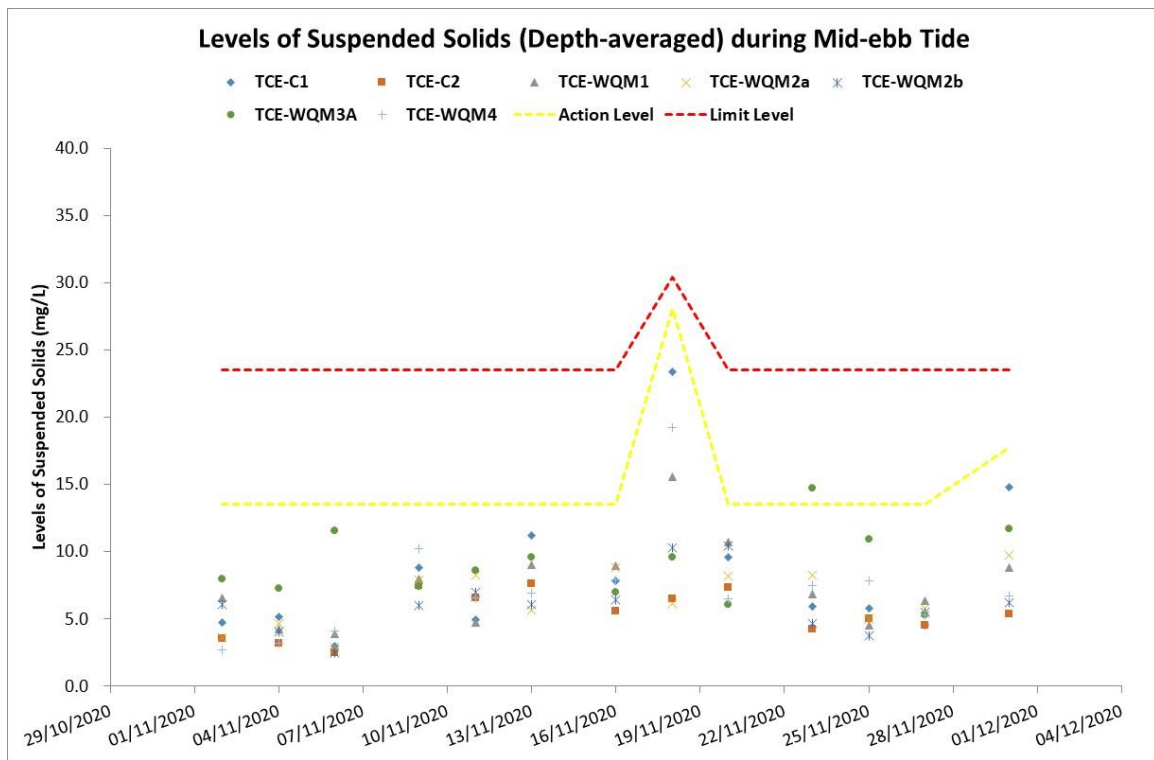


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 November 2020

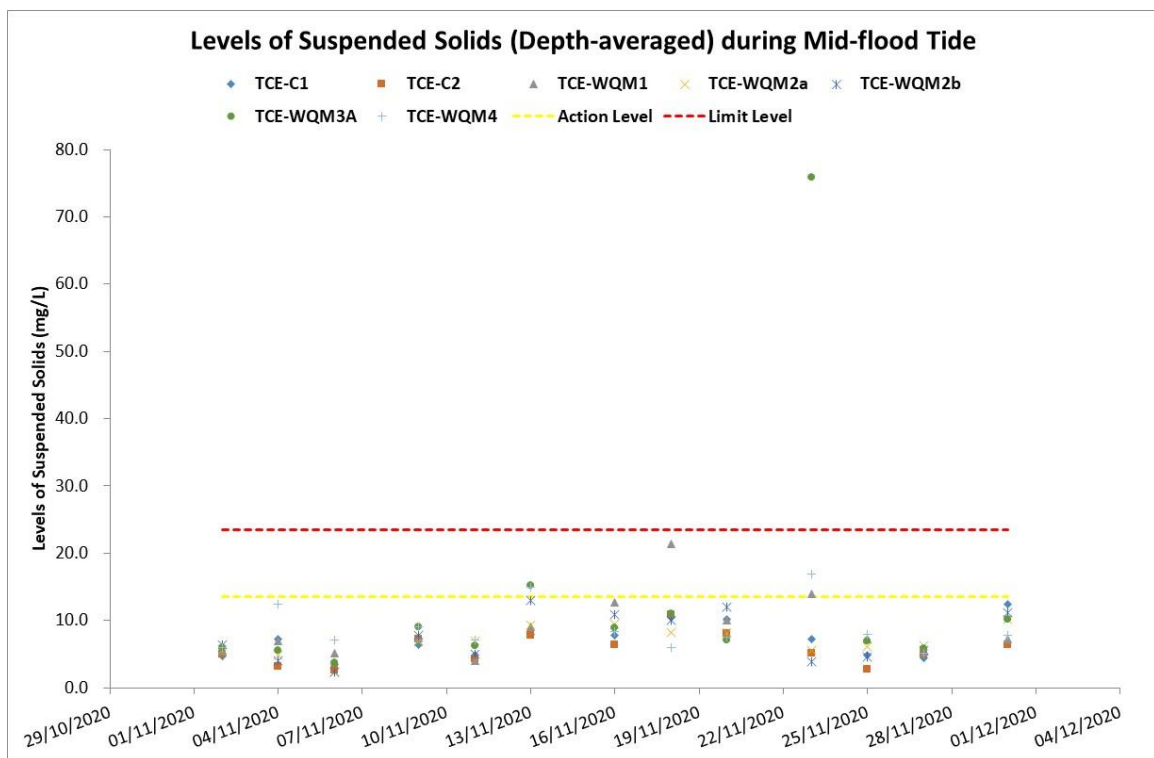


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 November 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: November 2020

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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)								
02-11-20	Mid-Ebb	TCE-C1	Fine	Moderate	12:06	8.6	Surface	1.0	1	24.9	8.2	32.4	6.9	100.4	2.2	4.5	6.8	4.5	4.7								
									2	24.9	8.2	32.4	6.9	100.4	2.3	4.3											
							Middle	4.3	1	24.6	8.2	33.2	6.7	96.5	3.8	5.2											
									2	24.6	8.2	33.2	6.7	96.6	4.0	4.9											
							Bottom	7.6	1	24.5	8.2	34.3	6.6	96.3	7.2	5.2											
									2	24.5	8.2	34.3	6.6	96.1	7.2	4.2											
		TCE-C2	Fine	Moderate	14:07	14.5	Surface	1.0	1	25.6	8.2	33.0	6.7	98.5	1.8	3.5	6.4	4.3	3.5								
									2	25.6	8.2	33.0	6.7	98.3	1.8	2.6											
							Middle	7.3	1	25.1	8.1	33.5	6.2	91.0	4.3	2.8											
									2	25.1	8.1	33.5	6.2	91.0	4.4	3.8											
							Bottom	13.5	1	25.0	8.1	33.6	6.2	90.9	6.8	4.6											
									2	25.0	8.1	33.6	6.2	90.9	6.8	3.9											
		TCE-WQM1	Fine	Calm	12:52	8.4	Surface	1.0	1	25.1	8.2	33.1	6.9	100.8	2.7	5.8	6.9	3.1	6.6								
									2	25.1	8.2	33.1	6.9	100.7	2.6	6.1											
							Middle	4.2	1	25.0	8.2	33.2	6.8	100.0	3.3	7.2											
									2	25.0	8.2	33.2	6.9	100.1	3.3	6.4											
							Bottom	7.4	1	25.0	8.2	33.2	6.9	100.1	3.3	7.2											
									2	25.0	8.2	33.2	6.9	100.1	3.3	6.7											
		TCE-WQM2a	Fine	Moderate	13:29	7.4	Surface	1.0	1	25.3	8.2	32.9	6.9	101.1	1.4	3.3	6.8	1.8	3.6								
									2	25.3	8.2	32.9	6.9	101.1	1.4	2.8											
							Middle	3.7	1	25.1	8.2	32.9	6.8	99.1	1.8	3.8											
									2	25.1	8.2	32.9	6.8	99.1	1.8	3.9											
							Bottom	6.4	1	25.1	8.2	33.1	6.8	99.0	2.4	3.8											
									2	25.1	8.2	33.1	6.8	98.9	2.0	4.2											
		TCE-WQM2b	Fine	Moderate	13:43	12.1	Surface	1.0	1	25.1	8.2	32.9	6.6	96.5	1.5	5.0	6.5	2.0	6.1								
									2	25.1	8.2	32.9	6.6	96.3	1.5	4.7											
							Middle	6.1	1	25.1	8.1	33.0	6.4	92.8	1.9	5.1											
									2	25.1	8.1	33.0	6.3	92.7	1.9	5.2											
							Bottom	11.1	1	25.0	8.1	33.6	6.2	90.5	2.6	7.9											
									2	25.0	8.1	33.6	6.2	90.6	2.5	8.7											
		TCE-WQM3A	Fine	Calm	13:16	4.2	Surface	1.0	1	25.6	8.2	32.9	6.8	100.0	3.8	6.7	6.8	3.6	8.0								
									2	25.6	8.2	32.9	6.8	100.1	3.3	6.9											
							Bottom	3.2	1	25.5	8.2	32.9	6.7	99.2	3.6	8.7											
									2	25.5	8.2	32.9	6.8	99.2	3.6	9.5											
							TCE-WQM4	Fine	Calm	13:05	3.5	Surface	1.0	1	25.4	8.2				33.1	7.0	102.9	1.3	2.9	7.0	1.8	2.7
													2	25.4	8.2	33.1				7.0	102.9	1.3	2.2				
		Bottom	2.5	1	25.4	8.2	33.1					7.0	102.2	2.2	3.0												
				2	25.4	8.2	33.1					7.0	102.2	2.3	2.8												
		TCE-WQM3A	Fine	Calm	8:12	4.5	Surface					1.0	1	25.0	8.1	33.1	6.5	95.2	1.6	5.8	6.5	1.8	5.9				
												2	25.0	8.1	33.1	6.5	95.2	1.6	5.0								
		Bottom					3.5	1	25.0	8.1	33.1	6.6	96.1	1.9	6.2												
								2	25.0	8.1	33.1	6.6	96.2	1.9	6.7												
		TCE-WQM4					Fine	Calm	8:24	3.7	Surface	1.0	1	25.0	8.1	33.1	6.5	94.9	2.5	5.2				6.5	2.6	6.0	
												2	25.0	8.1	33.1	6.5	94.8	2.5	6.0								
		Bottom	2.7	1	25.0	8.1					33.1	6.6	96.2	2.7	6.6												
				2	25.0	8.1					33.1	6.6	96.2	2.7	6.2												

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)					
04-11-20	Mid-Ebb	TCE-C1	Fine	Moderate	13:11	8.4	Surface	1.0	1	24.6	8.2	34.0	6.9	100.2	4.8	5.9	6.8	8.6	5.2					
									2	24.6	8.2	34.0	6.9	100.2	5.3	5.1								
							Middle	4.2	1	24.4	8.2	34.5	6.7	97.0	10.4	5.6								
									2	24.4	8.2	34.5	6.7	97.0	10.2	5.4								
				Bottom	7.4	1	24.4	8.2	34.5	6.6	96.6	10.7	4.7	6.6										
						2	24.4	8.2	34.5	6.6	96.4	10.4	4.4											
		TCE-C2	Fine	Moderate	15:03	13.2	Surface	1.0	1	25.0	8.1	33.6	6.3				92.8	1.3	4.8	6.2	1.5	3.2		
									2	25.0	8.1	33.6	6.3				92.7	1.3	4.1					
							Middle	6.6	1	24.8	8.1	33.9	6.1	88.9	1.4	2.2								
									2	24.8	8.1	33.9	6.1	88.9	1.4	3.0								
				Bottom	12.2	1	24.8	8.1	34.0	6.0	88.3	1.7	2.4	6.0										
						2	24.8	8.1	34.0	6.0	88.4	1.7	2.8											
		TCE-WQM1	Fine	Moderate	13:47	8.2	Surface	1.0	1	24.9	8.2	33.0	7.1				102.7	1.2	5.3	7.0	1.6	4.2		
									2	24.9	8.2	33.0	7.0				102.6	1.1	5.6					
							Middle	4.1	1	24.9	8.2	33.0	7.0	101.6	1.5	4.4								
									2	24.9	8.2	33.0	7.0	101.5	1.5	3.4								
				Bottom	7.2	1	24.8	8.2	33.0	6.9	99.7	2.0	3.6	6.9										
						2	24.8	8.2	33.0	6.9	99.7	2.0	3.1											
		TCE-WQM2a	Fine	Moderate	14:26	7.8	Surface	1.0	1	25.1	8.2	32.9	6.8				99.8	2.1	4.4	6.7	2.0	4.7		
									2	25.1	8.2	32.9	6.8				99.8	2.1	3.7					
							Middle	3.9	1	24.8	8.2	32.9	6.6	96.1	2.3	4.4								
									2	24.8	8.2	32.9	6.6	96.2	2.3	4.9								
				Bottom	6.8	1	24.9	8.1	33.2	6.6	96.5	1.6	5.4	6.6										
						2	24.9	8.1	33.1	6.6	96.3	1.7	5.3											
		TCE-WQM2b	Fine	Moderate	14:38	11.3	Surface	1.0	1	25.0	8.2	33.2	6.6				96.7	2.1	4.6	6.4	2.6	4.0		
									2	25.0	8.2	33.2	6.6				96.7	2.1	4.2					
							Middle	5.7	1	24.9	8.1	33.7	6.1	89.5	3.3	3.9								
									2	24.9	8.1	33.7	6.1	89.4	3.3	4.1								
				Bottom	10.3	1	24.8	8.1	33.9	6.2	90.1	2.4	3.8	6.2										
						2	24.8	8.1	33.9	6.2	90.2	2.4	3.5											
		TCE-WQM3A	Fine	Moderate	14:14	4.4	Surface	1.0	1	25.3	8.2	32.7	6.6				97.3	5.3	7.4	6.6	5.9	7.3		
									2	25.3	8.2	32.7	6.6				97.3	5.4	6.8					
							Bottom	3.4	1	25.1	8.2	32.7	6.5	95.5	6.6	7.4								
									2	25.1	8.2	32.7	6.5	95.6	6.1	7.6								
		TCE-WQM4	Cloudy	Moderate	14:02	3.8	Surface	1.0	1	25.2	8.2	32.9	7.0	103.0	1.7	2.3	7.0	1.8	3.2					
									2	25.2	8.2	32.9	7.0	102.8	1.8	3.3								
							Bottom	2.8	1	25.1	8.2	32.9	7.0	101.8	1.9	3.5								
									2	25.1	8.2	32.9	7.0	101.6	1.9	3.8								
		04-11-20	Mid-Flood	TCE-C1	Fine	Moderate	11:12	8.2	Surface	1.0	1	24.5	8.2	33.7	6.9	100.7	5.7	5.7	6.8	7.2	7.3			
											2	24.5	8.2	33.7	6.9	100.5	5.8	5.9						
									Middle	4.1	1	24.4	8.2	34.4	6.6	96.1	6.5	6.0						
											2	24.4	8.2	34.4	6.6	96.1	6.4	6.6						
						Bottom	7.2	1	24.4	8.2	34.5	6.6	96.4	9.4	9.8	6.6								
								2	24.4	8.2	34.5	6.6	96.3	9.5	9.6									
				TCE-C2	Cloudy	Moderate	9:14	12.4	Surface	1.0	1	24.8	8.1	33.4	6.3				91.5	1.7	3.7	6.2	5.2	3.2
											2	24.8	8.1	33.4	6.2				91.1	2.0	3.0			
									Middle	6.2	1	24.8	8.1	33.6	6.1	89.3	5.0	3.0						
											2	24.8	8.1	33.6	6.1	89.4	5.2	3.4						
				Bottom	11.4	1	24.8	8.1	33.7	6.1	89.3	8.6	2.9	6.1										
						2	24.8	8.1	33.7	6.1	89.4	8.5	3.3											
TCE-WQM1	Fine			Moderate	10:27	8.3	Surface	1.0	1	24.7	8.2	32.9	6.8				98.5	2.4	9.6	6.8	2.2	6.9		
									2	24.7	8.2	32.9	6.8				98.4	2.4	8.8					
							Middle	4.2	1	24.7	8.2	32.9	6.7	97.7	2.4	7.8								
									2	24.7	8.2	32.9	6.7	97.6	2.4	7.0								
				Bottom	7.3	1	24.7	8.2	32.9	6.7	97.6	1.8	3.8	6.7										
						2	24.7	8.2	32.9	6.7	97.5	1.8	4.4											
TCE-WQM2a	Cloudy			Moderate	9:53	7.7	Surface	1.0	1	24.8	8.2	32.9	6.7				97.4	2.8	4.3	6.7	3.3	4.8		
									2	24.8	8.2	32.9	6.7				97.4	2.8	4.3					
							Middle	3.9	1	24.7	8.2	32.9	6.7	96.8	3.3	5.0								
									2	24.7	8.2	32.9	6.7	96.8	3.5	4.4								
				Bottom	6.7	1	24.7	8.2	32.9	6.6	96.3	3.7	5.3	6.6										
						2	24.7	8.2	32.9	6.6	96.1	3.6	5.6											
TCE-WQM2b	Cloudy			Moderate	9:40	11.6	Surface	1.0	1	24.8	8.2	33.1	6.6				96.4	2.2	5.9	6.6	3.0	4.0		
									2	24.8	8.2	33.1	6.6				96.0	2.3	4.9					
							Middle	5.8	1	24.7	8.2	33.1	6.6	95.8	2.9	3.2								
									2	24.7	8.2	33.1	6.6	95.9	2.9	3.3								
				Bottom	10.6	1	24.7	8.2	33.1	6.6	95.4	3.7	3.4	6.6										
						2	24.7	8.2	33.1	6.6	95.4	4.0	3.0											
TCE-WQM3A	Fine			Moderate	10:06	4.2	Surface	1.0	1	24.8	8.2	32.9	6.6				95.6	3.4	6.1	6.6	5.8	5.6		
									2	24.8	8.2	32.9	6.6				95.8	3.5	6.1					
							Bottom	3.2	1	24.8	8.2	33.0	6.6	95.5	7.8	4.6								
									2	24.8	8.2	33.0	6.6	95.5	8.3	5.5								
TCE-WQM4	Fine			Moderate	10:15	3.6	Surface	1.0	1	24.8	8.2	32.9	6.6	96.1	9.6	12.9	6.6	10.7	12.4					
									2	24.8	8.2	32.9	6.6	96.1	9.7	13.5								
							Bottom	2.6	1	24.7	8.2	32.9	6.6	95.2	11.7	11.8								
									2	24.7	8.2	33.0	6.6	95.2	11.8	11.4								

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)					
06-11-20	Mid-Ebb	TCE-C1	Fine	Moderate	14:52	8.1	Surface	1.0	1	24.7	8.1	30.9	8.0	114.9	1.8	2.0	7.7	3.7	3.0					
									2	24.7	8.1	30.9	8.0	114.8	1.8	2.1								
							Middle	4.1	1	24.3	8.1	31.9	7.4	105.5	3.0	2.8								
									2	24.3	8.1	31.9	7.4	105.4	3.0	3.4								
				Bottom	7.1	1	24.2	8.1	32.8	7.1	101.6	6.4	4.0	7.1										
						2	24.2	8.1	32.8	7.1	101.6	6.4	3.7											
		TCE-C2	Fine	Moderate	16:54	14.0	Surface	1.0	1	24.8	8.1	32.5	7.7				112.2	1.2	2.1	7.4	1.3	2.5		
									2	24.8	8.1	32.5	7.7				112.1	1.3	2.0					
							Middle	7.0	1	24.8	8.0	32.6	7.0	101.9	1.1	2.1								
									2	24.8	8.0	32.6	7.0	101.6	1.1	2.3								
				Bottom	13.0	1	24.6	8.0	33.1	6.6	96.2	1.7	3.7	6.6										
						2	24.6	8.0	33.1	6.6	96.3	1.4	2.9											
		TCE-WQM1	Fine	Calm	15:30	8.5	Surface	1.0	1	24.8	8.1	32.7	7.6				109.7	3.5	4.8	7.5	3.3	3.9		
									2	24.8	8.1	32.7	7.5				109.6	3.6	3.9					
							Middle	4.3	1	24.8	8.1	32.7	7.5	108.6	3.1	3.7								
									2	24.8	8.1	32.7	7.5	108.5	3.2	3.5								
				Bottom	7.5	1	24.8	8.1	32.7	7.4	107.7	3.0	3.6	7.4										
						2	24.8	8.1	32.7	7.4	107.7	3.1	3.8											
		TCE-WQM2a	Fine	Moderate	16:15	7.6	Surface	1.0	1	24.8	8.1	32.3	8.0				115.2	2.3	2.4	7.9	2.7	2.9		
									2	24.8	8.1	32.3	8.0				115.2	2.3	2.8					
							Middle	3.8	1	24.9	8.1	32.3	7.9	114.4	2.2	2.2								
									2	24.9	8.1	32.3	7.9	114.5	2.2	3.2								
				Bottom	6.6	1	24.9	8.1	32.4	7.8	113.7	3.5	3.2	7.8										
						2	24.9	8.1	32.4	7.8	113.6	3.6	3.7											
		TCE-WQM2b	Fine	Moderate	16:28	12.2	Surface	1.0	1	25.0	8.1	32.3	7.8				113.7	0.8	2.0	7.4	1.9	2.5		
									2	25.0	8.1	32.3	7.8				113.6	0.8	2.0					
							Middle	6.1	1	24.7	8.0	32.4	7.1	102.0	2.0	2.5								
									2	24.7	8.0	32.4	7.0	101.9	2.0	2.8								
				Bottom	11.2	1	24.6	8.0	32.8	6.6	95.0	2.9	2.7	6.6										
						2	24.6	8.0	32.8	6.6	95.1	2.9	2.9											
		TCE-WQM3A	Fine	Calm	16:02	4.5	Surface	1.0	1	25.1	8.1	32.4	7.4				107.2	12.5	10.2	7.4	13.4	11.6		
									2	25.1	8.1	32.4	7.4				107.2	12.5	10.7					
							Bottom	3.5	1	25.0	8.1	32.4	7.2	105.2	14.2	12.8								
									2	25.0	8.1	32.4	7.2	105.1	14.2	12.6								
		TCE-WQM4	Fine	Calm	15:51	3.7	Surface	1.0	1	25.0	8.1	32.5	7.6	111.2	7.4	3.6	7.6	6.3	4.1					
									2	25.0	8.1	32.5	7.7	111.2	7.6	4.5								
							Bottom	2.7	1	24.9	8.1	32.5	7.5	109.1	5.0	4.1								
									2	24.9	8.1	32.5	7.5	109.0	5.0	4.3								
		06-11-20	Mid-Flood	TCE-C1	Fine	Moderate	12:34	8.3	Surface	1.0	1	24.7	8.1	30.7	7.8	111.5	2.4	4.3	7.6	3.4	3.5			
											2	24.7	8.1	30.7	7.8	111.5	2.4	3.3						
									Middle	4.2	1	24.3	8.1	31.4	7.4	106.0	3.2	3.8						
											2	24.3	8.1	31.5	7.4	106.0	3.3	3.1						
						Bottom	7.3	1	24.2	8.1	32.4	7.1	102.4	4.4	3.5	7.1								
								2	24.2	8.1	32.4	7.1	102.4	4.4	3.0									
				TCE-C2	Fine	Moderate	10:05	14.4	Surface	1.0	1	24.6	8.2	32.5	7.0				100.9	1.1	3.2	6.9	3.5	2.7
											2	24.6	8.2	32.5	7.0				100.9	1.2	2.4			
									Middle	7.2	1	24.6	8.1	32.5	6.9	100.0	3.6	2.3						
											2	24.6	8.1	32.5	6.9	100.0	3.7	3.1						
				Bottom	13.4	1	24.5	8.1	32.5	6.9	100.1	5.8	3.0	6.9										
						2	24.5	8.1	32.5	6.9	100.0	5.7	2.0											
TCE-WQM1	Fine			Calm	11:24	8.6	Surface	1.0	1	24.7	8.1	32.5	7.1				102.9	2.8	3.4	7.1	4.8	5.2		
									2	24.7	8.1	32.5	7.1				102.8	2.9	4.1					
							Middle	4.3	1	24.5	8.1	32.7	7.1	101.9	5.1	4.2								
									2	24.5	8.1	32.7	7.1	101.9	5.2	4.7								
				Bottom	7.6	1	24.4	8.0	32.7	7.1	101.6	6.3	7.2	7.1										
						2	24.4	8.0	32.7	7.1	101.7	6.3	7.4											
TCE-WQM2a	Fine			Moderate	10:46	7.5	Surface	1.0	1	24.5	8.0	32.1	7.4				106.0	2.6	3.3	7.2	3.8	2.4		
									2	24.5	8.0	32.1	7.4				106.0	2.6	2.6					
							Middle	3.8	1	24.5	8.1	32.3	7.1	102.6	3.8	2.3								
									2	24.5	8.1	32.3	7.1	102.5	3.9	2.0								
				Bottom	6.5	1	24.5	8.1	32.5	6.9	100.0	5.1	2.1	6.9										
						2	24.5	8.1	32.5	6.9	99.9	5.0	2.0											
TCE-WQM2b	Fine			Moderate	10:33	11.8	Surface	1.0	1	24.6	8.1	31.4	7.5				108.1	1.8	2.6	7.5	2.7	2.3		
									2	24.6	8.1	31.4	7.5				108.1	1.8	2.3					
							Middle	5.9	1	24.5	8.1	31.9	7.4	106.1	2.6	2.5								
									2	24.5	8.1	31.8	7.4	106.2	2.6	2.3								
				Bottom	10.8	1	24.5	8.1	32.2	7.3	105.4	3.6	2.1	7.3										
						2	24.5	8.1	32.2	7.3	105.4	3.7	2.0											
TCE-WQM3A	Fine			Calm	10:59	4.2	Surface	1.0	1	24.7	8.1	32.4	7.2				103.3	4.1	2.9	7.2	4.1	3.7		
									2	24.7	8.1	32.4	7.2				103.3	4.1	3.6					
							Bottom	3.2	1	24.6	8.1	32.5	7.1	102.7	4.1	4.0								
									2	24.6	8.1	32.5	7.1	102.7	4.2	4.1								
TCE-WQM4	Fine			Calm	11:11	3.5	Surface	1.0	1	24.6	8.2	32.5	7.1	102.1	9.3	6.9	7.1	10.4	7.1					
									2	24.6	8.2	32.5	7.1	102.1	9.3	7.3								
							Bottom	2.5	1	24.6	8.1	32.5	7.0	101.0	11.4	7.2								
									2	24.6	8.1	32.5	7.0	101.0	11.4	7.1								



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)										
09-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	7:13	7.1	Surface	1.0	1	24.0	8.3	32.5	7.7	110.1	1.7	6.9	7.7	3.5	8.8										
									2	24.0	8.3	32.5	7.7	109.9	1.8	6.2													
							Middle	3.6	1	24.0	8.3	32.5	7.6	109.3	2.8	9.7													
									2	24.0	8.3	32.5	7.6	109.2	2.8	10.0													
							Bottom	6.1	1	24.0	8.3	32.5	7.3	104.4	5.7	10.3													
									2	24.0	8.3	32.5	7.3	104.4	6.1	9.8													
		TCE-C2	Cloudy	Moderate	5:16	12.7	Surface	1.0	1	24.4	8.3	31.3	8.4	119.6	0.2	9.0	7.9	0.6	7.5										
									2	24.4	8.3	31.3	8.3	119.3	0.2	8.3													
							Middle	6.4	1	24.5	8.2	31.6	7.5	108.0	0.7	6.8													
									2	24.5	8.2	31.6	7.5	107.7	0.8	7.6													
							Bottom	11.7	1	24.6	8.2	31.9	7.1	102.1	0.9	6.1													
									2	24.6	8.2	31.9	7.1	102.2	0.9	7.0													
		TCE-WQM1	Cloudy	Calm	6:32	8.1	Surface	1.0	1	24.7	8.4	31.2	9.0	128.7	2.4	7.9	8.6	6.9	8.0										
									2	24.6	8.4	31.2	9.0	128.6	2.3	7.4													
							Middle	4.1	1	24.4	8.3	31.5	8.4	119.8	7.6	7.9													
									2	24.4	8.3	31.5	8.3	119.2	7.2	7.5													
							Bottom	7.1	1	24.4	8.3	31.6	8.2	117.1	10.9	9.0													
									2	24.4	8.3	31.6	8.1	116.7	10.9	8.3													
		TCE-WQM2a	Cloudy	Moderate	5:57	6.3	Surface	1.0	1	24.7	8.4	31.3	8.6	123.7	0.9	6.9	8.6	3.6	7.9										
									2	24.7	8.4	31.3	8.6	123.7	0.9	6.5													
							Middle	3.2	1	24.6	8.3	31.3	8.6	123.2	3.8	7.7													
									2	24.6	8.3	31.4	8.6	122.9	3.7	7.0													
							Bottom	5.3	1	24.5	8.3	31.5	8.0	114.9	6.1	9.4													
									2	24.5	8.3	31.5	8.0	114.6	6.1	10.0													
		TCE-WQM2b	Cloudy	Moderate	5:45	10.9	Surface	1.0	1	24.5	8.3	31.7	8.3	118.6	0.7	6.6	8.1	0.9	6.0										
									2	24.5	8.3	31.7	8.3	118.4	0.7	6.3													
							Middle	5.5	1	24.4	8.3	31.7	8.0	115.3	0.7	5.8													
									2	24.4	8.3	31.7	8.0	115.0	0.7	6.1													
							Bottom	9.9	1	24.4	8.3	31.7	7.9	113.5	1.1	5.4													
									2	24.4	8.3	31.7	7.9	113.5	1.2	6.0													
		TCE-WQM3A	Cloudy	Calm	6:09	4.2	Surface	1.0	1	24.9	8.4	30.8	8.5	121.7	4.5	7.2	8.5	5.1	7.4										
									2	24.8	8.4	30.8	8.5	121.6	4.2	7.0													
							Bottom	3.2	1	24.7	8.4	31.0	8.0	114.7	5.7	8.0													
									2	24.7	8.4	31.0	7.9	114.0	6.1	7.5													
							TCE-WQM4	Cloudy	Calm	6:20	3.3	Surface	1.0	1	24.7	8.4				31.2	8.8	126.2	9.5	9.0	8.8	10.0	10.2		
														2	24.7	8.4				31.2	8.8	126.1	9.5	8.4					
		Bottom	2.3	1	24.6	8.4						31.2	8.7	124.2	10.7	11.4													
				2	24.6	8.4						31.2	8.6	123.9	10.5	12.1													
		09-11-20	Mid-Flood	TCE-C1	Cloudy	Moderate						13:21	7.3	Surface	1.0	1	24.0	8.3	32.5	7.7	109.9	2.0	5.1	7.6				7.0	6.4
																2	24.0	8.3	32.5	7.6	109.3	2.6	4.3						
							Middle	3.7	1	24.0	8.3			32.5	7.5	107.4	4.9	5.7											
									2	24.0	8.3			32.5	7.5	107.0	5.0	5.8											
							Bottom	6.3	1	24.0	8.3			32.5	7.5	107.4	12.6	8.4											
									2	24.0	8.3			32.5	7.6	108.1	14.8	9.2											
				TCE-C2	Cloudy	Moderate	15:30	12.6	Surface	1.0	1	24.6	8.3	32.2	7.5	108.4	0.8	8.4	7.4	1.7	7.2								
											2	24.6	8.3	32.2	7.5	107.9	0.8	7.6											
									Middle	6.3	1	24.6	8.2	32.5	7.3	104.7	1.9	6.7											
											2	24.5	8.2	32.5	7.2	104.6	2.1	7.3											
Bottom	11.6								1	24.5	8.2	32.5	7.3	105.0	2.7	7.0													
									2	24.5	8.2	32.5	7.3	105.1	2.2	6.4													
TCE-WQM1	Cloudy			Calm	14:04	7.8	Surface	1.0	1	25.0	8.4	31.2	9.1	132.1	1.3	10.3	9.2	1.8	7.4										
									2	25.0	8.4	31.2	9.2	132.3	1.4	10.5													
							Middle	3.9	1	24.9	8.4	31.3	9.2	132.2	1.8	6.0													
									2	24.9	8.4	31.3	9.2	132.1	1.7	7.0													
							Bottom	6.8	1	24.8	8.4	31.4	9.1	130.9	2.1	5.3													
									2	24.7	8.4	31.4	9.1	130.6	2.4	5.0													
TCE-WQM2a	Cloudy			Moderate	14:43	6.9	Surface	1.0	1	24.9	8.4	31.5	9.3	134.8	1.7	8.8	9.1	3.3	6.8										
									2	24.9	8.4	31.5	9.3	134.8	1.7	8.1													
							Middle	3.5	1	24.8	8.4	31.5	8.8	126.8	3.6	6.3													
									2	24.8	8.4	31.5	8.8	126.2	3.8	6.8													
							Bottom	5.9	1	24.8	8.4	31.5	8.5	121.9	4.6	5.3													
									2	24.8	8.4	31.5	8.4	121.5	4.7	5.4													
TCE-WQM2b	Cloudy			Moderate	14:55	10.7	Surface	1.0	1	24.7	8.4	31.5	9.3	134.5	0.3	8.5	9.0	2.0	7.8										
									2	24.7	8.4	31.5	9.3	134.3	0.3	9.3													
							Middle	5.4	1	24.6	8.3	31.6	8.6	123.8	1.2	7.9													
									2	24.6	8.3	31.6	8.6	123.5	1.1	7.6													
							Bottom	9.7	1	24.6	8.3	31.6	8.4	120.3	4.6	6.7													
									2	24.6	8.3	31.6	8.3	120.0	4.7	6.9													
TCE-WQM3A	Cloudy			Calm	14:31	3.8	Surface	1.0	1	24.9	8.4	31.2	9.7	139.8	4.3	9.6	9.7	6.1	9.1										
									2	24.8	8.4	31.2	9.6	138.7	4.9	9.0													
							Bottom	2.8	1	24.7	8.4	31.3	8.6	123.8	7.4	9.7													
									2	24.8	8.4	31.3	8.6	123.4	7.6	8.0													
							TCE-WQM4	Cloudy	Calm	14:19	3.1	Surface	1.0	1	24.9	8.4				31.4	9.1	130.8	4.6	7.4	9.0	4.5	9.1		
														2	24.9	8.4				31.4	9.0	130.4	4.8	7.5					
Bottom	2.1			1	24.9	8.4						31.4	9.0	129.1	4.6	10.3													
				2	24.9	8.4						31.4	8.9	128.8	4.1	11.2													

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)					
11-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	10:32	8.4	Surface	1.0	1	23.5	8.3	34.0	8.0	114.3	1.9	4.0	8.0	2.5	5.0					
									2	23.5	8.3	34.0	8.0	114.3	1.9	3.8								
							Middle	4.2	1	23.4	8.3	34.1	7.9	113.3	2.6	4.6								
									2	23.4	8.3	34.1	7.9	113.3	2.6	5.1								
				Bottom	7.4	1	23.4	8.3	34.1	8.0	114.3	3.0	6.4	8.0										
						2	23.4	8.3	34.1	8.0	114.3	3.0	5.8											
		TCE-C2	Cloudy	Moderate	9:22	12.6	Surface	1.0	1	24.0	8.2	33.4	7.4				106.7	0.6	8.8	7.2	3.4	6.6		
									2	24.0	8.2	33.4	7.4				106.6	0.6	7.9					
							Middle	6.3	1	24.2	8.2	33.8	7.0	101.0	3.1	6.7								
									2	24.2	8.2	33.8	7.0	101.0	3.1	7.2								
				Bottom	11.6	1	24.2	8.2	33.8	7.0	101.0	6.4	4.0	7.0										
						2	24.2	8.2	33.8	7.0	101.0	6.4	4.9											
		TCE-WQM1	Cloudy	Moderate	10:49	8.1	Surface	1.0	1	24.1	8.4	33.3	8.3				119.4	3.2	5.5	8.2	2.1	4.7		
									2	24.1	8.4	33.3	8.3				119.4	3.3	5.3					
							Middle	4.1	1	23.7	8.3	33.6	8.2	117.2	1.6	4.5								
									2	23.7	8.3	33.6	8.2	117.1	1.6	4.8								
				Bottom	7.1	1	23.6	8.3	33.7	8.1	116.1	1.4	3.8	8.1										
						2	23.6	8.3	33.7	8.1	116.1	1.4	4.4											
		TCE-WQM2a	Cloudy	Moderate	10:10	7.0	Surface	1.0	1	24.0	8.4	33.1	8.3				118.8	2.1	6.0	8.2	2.7	8.3		
									2	24.0	8.4	33.1	8.3				118.8	2.1	5.7					
							Middle	3.5	1	24.0	8.4	33.1	8.2	117.6	2.7	6.6								
									2	24.0	8.4	33.1	8.2	117.4	2.8	7.4								
				Bottom	6.0	1	23.9	8.4	33.2	8.0	114.8	3.2	12.2	8.0										
						2	23.9	8.4	33.2	8.0	114.7	3.2	11.6											
		TCE-WQM2b	Cloudy	Moderate	9:58	11.6	Surface	1.0	1	24.1	8.3	33.5	7.7				110.4	4.3	7.9	7.6	3.5	7.0		
									2	24.1	8.3	33.5	7.7				110.4	4.3	8.7					
							Middle	5.8	1	24.1	8.3	33.4	7.6	109.6	2.8	6.4								
									2	24.1	8.3	33.4	7.6	109.6	2.8	7.5								
				Bottom	10.6	1	24.1	8.3	33.4	7.6	110.0	3.5	5.2	7.6										
						2	24.1	8.3	33.4	7.6	110.0	3.5	6.1											
		TCE-WQM3A	Cloudy	Moderate	10:25	3.9	Surface	1.0	1	24.1	8.3	32.7	7.9				112.7	3.6	9.0	7.9	3.8	8.6		
									2	24.1	8.3	32.7	7.9				112.7	3.6	9.5					
							Bottom	2.9	1	24.0	8.3	32.7	7.8	111.9	4.0	7.5								
									2	24.0	8.3	32.7	7.8	111.9	4.0	8.3								
		TCE-WQM4	Cloudy	Moderate	10:36	3.7	Surface	1.0	1	23.9	8.3	33.0	8.0	115.2	2.4	6.8	8.0	1.4	6.6					
									2	23.9	8.3	33.0	8.0	115.1	2.5	6.1								
							Bottom	2.7	1	23.9	8.3	33.0	7.9	113.6	0.4	6.5								
									2	23.9	8.3	33.0	7.9	113.6	0.4	7.0								
		11-11-20	Mid-Flood	TCE-C1	Cloudy	Moderate	14:45	8.0	Surface	1.0	1	23.6	8.4	33.7	8.6	123.1	1.2	4.1	8.4	1.4	4.8			
											2	23.6	8.4	33.7	8.6	123.1	1.2	3.1						
									Middle	4.0	1	23.5	8.3	33.9	8.2	117.5	1.4	4.9						
											2	23.5	8.3	33.9	8.2	117.5	1.4	4.2						
						Bottom	7.0	1	23.5	8.3	34.0	8.1	115.5	1.7	5.8	8.1								
								2	23.5	8.3	34.0	8.1	115.5	1.7	6.7									
				TCE-C2	Cloudy	Moderate	16:56	13.0	Surface	1.0	1	24.2	8.3	33.6	8.0				115.1	0.2	4.5	7.7	2.0	4.3
											2	24.2	8.3	33.6	8.0				115.1	0.2	4.9			
									Middle	6.5	1	24.2	8.2	33.7	7.4	106.9	2.4	4.2						
											2	24.2	8.2	33.7	7.4	106.9	2.4	4.2						
				Bottom	12.0	1	24.2	8.2	33.7	7.4	106.6	3.5	3.7	7.4										
						2	24.2	8.2	33.7	7.4	106.6	3.5	4.1											
TCE-WQM1	Cloudy			Moderate	15:32	8.6	Surface	1.0	1	24.5	8.4	33.1	8.8				127.2	3.0	6.6	8.7	4.1	4.0		
									2	24.5	8.4	33.1	8.8				127.2	3.0	5.7					
							Middle	4.3	1	23.9	8.4	33.5	8.7	124.9	4.8	3.0								
									2	23.9	8.4	33.5	8.7	124.9	4.8	3.1								
				Bottom	7.6	1	23.9	8.4	33.6	8.7	125.1	4.6	2.7	8.7										
						2	23.9	8.4	33.6	8.7	125.1	4.6	2.8											
TCE-WQM2a	Cloudy			Moderate	16:11	7.9	Surface	1.0	1	24.4	8.3	33.4	8.4				122.1	3.7	6.0	8.4	7.1	7.0		
									2	24.4	8.3	33.4	8.4				122.1	3.7	5.4					
							Middle	4.0	1	24.3	8.3	33.4	8.4	121.2	6.9	7.6								
									2	24.3	8.3	33.4	8.4	121.1	7.1	7.7								
				Bottom	6.9	1	24.3	8.3	33.4	8.3	120.5	10.5	7.2	8.3										
						2	24.3	8.3	33.4	8.4	120.8	10.4	8.1											
TCE-WQM2b	Cloudy			Moderate	16:23	11.5	Surface	1.0	1	24.3	8.3	33.4	8.7				125.4	0.9	6.0	8.6	2.1	5.0		
									2	24.3	8.3	33.4	8.7				125.4	0.9	5.6					
							Middle	5.8	1	24.3	8.3	33.4	8.5	123.1	2.0	4.7								
									2	24.3	8.3	33.4	8.5	123.1	2.0	5.0								
				Bottom	10.5	1	24.3	8.3	33.5	8.5	122.1	3.5	4.2	8.5										
						2	24.3	8.3	33.5	8.5	122.1	3.5	4.3											
TCE-WQM3A	Cloudy			Moderate	15:59	4.4	Surface	1.0	1	24.6	8.4	33.1	8.7				125.7	2.9	4.9	8.7	3.5	6.2		
									2	24.6	8.4	33.1	8.7				125.6	3.0	5.7					
							Bottom	3.4	1	24.5	8.4	33.1	8.5	122.9	4.1	7.4								
									2	24.5	8.4	33.1	8.5	122.9	4.1	6.9								
TCE-WQM4	Cloudy			Moderate	15:45	3.4	Surface	1.0	1	24.3	8.4	33.2	8.8	127.1	4.8	8.0	8.8	6.0	7.2					
									2	24.3	8.4	33.2	8.8	126.9	4.8	7.3								
							Bottom	2.4	1	24.3	8.4	33.2	8.6	123.8	7.1	6.4								
									2	24.3	8.4	33.2	8.6	123.8	7.1	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)					
13-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:26	8.0	Surface	1.0	1	23.4	8.3	32.6	7.7	109.4	6.6	10.4	7.7	9.8	11.2					
									2	23.4	8.3	32.6	7.7	109.3	6.7	11.2								
							Middle	4.0	1	23.4	8.3	32.6	7.7	108.6	9.9	11.4								
									2	23.4	8.3	32.6	7.7	108.6	9.7	11.4								
				Bottom	7.0	1	23.4	8.3	32.6	7.6	108.0	13.1	11.3	7.6										
						2	23.4	8.3	32.6	7.6	108.0	13.0	11.4											
		TCE-C2	Fine	Moderate	10:05	14.6	Surface	1.0	1	24.0	8.2	32.5	7.1				101.7	2.4	9.1	7.1	2.8	7.6		
									2	24.0	8.2	32.5	7.1				101.5	2.4	8.3					
							Middle	7.3	1	24.0	8.2	32.5	7.0	100.6	2.0	6.9								
									2	24.0	8.2	32.5	7.0	100.6	2.0	7.3								
				Bottom	13.6	1	24.0	8.2	32.5	7.0	100.3	4.1	7.2	7.0										
						2	24.0	8.2	32.5	7.0	100.3	4.0	6.9											
		TCE-WQM1	Cloudy	Moderate	11:33	8.2	Surface	1.0	1	23.4	8.4	32.5	8.3				116.9	3.6	8.0	8.2	3.7	9.0		
									2	23.4	8.4	32.5	8.3				116.8	3.7	8.4					
							Middle	4.1	1	23.4	8.4	32.5	8.2	116.5	3.9	9.3								
									2	23.4	8.4	32.5	8.2	116.5	4.0	8.7								
				Bottom	7.2	1	23.4	8.4	32.5	8.2	116.0	3.4	10.0	8.2										
						2	23.4	8.4	32.5	8.2	115.9	3.5	9.6											
		TCE-WQM2a	Cloudy	Moderate	10:52	7.4	Surface	1.0	1	23.9	8.4	32.2	8.2				117.2	2.4	6.0	8.1	2.9	5.7		
									2	23.9	8.4	32.2	8.2				117.2	2.4	6.3					
							Middle	3.7	1	23.8	8.3	32.2	7.9	112.8	2.4	5.9								
									2	23.8	8.3	32.2	7.9	112.6	2.4	5.6								
				Bottom	6.4	1	23.8	8.3	32.2	7.7	109.8	3.9	5.3	7.7										
						2	23.8	8.3	32.2	7.7	109.8	3.9	5.0											
		TCE-WQM2b	Cloudy	Moderate	10:38	12.3	Surface	1.0	1	24.0	8.3	32.4	7.4				106.5	1.1	6.1	7.4	1.8	6.1		
									2	24.0	8.3	32.4	7.4				106.4	1.1	5.0					
							Middle	6.2	1	24.0	8.3	32.4	7.3	104.8	1.5	5.4								
									2	24.0	8.3	32.4	7.3	104.8	1.7	6.3								
				Bottom	11.3	1	23.9	8.3	32.4	7.3	104.4	2.6	6.5	7.3										
						2	23.9	8.3	32.4	7.3	104.4	2.5	7.0											
		TCE-WQM3A	Cloudy	Calm	11:06	4.1	Surface	1.0	1	23.8	8.4	32.1	7.8				111.5	3.7	8.9	7.8	3.9	9.6		
									2	23.8	8.4	32.1	7.8				111.5	3.7	9.3					
							Bottom	3.1	1	23.8	8.4	32.1	7.8	111.1	4.1	10.4								
									2	23.8	8.4	32.1	7.8	111.1	4.0	9.7								
		TCE-WQM4	Cloudy	Moderate	11:18	3.5	Surface	1.0	1	23.8	8.4	32.2	8.0	114.1	1.9	5.1	8.0	2.1	6.9					
									2	23.8	8.4	32.2	8.0	114.1	1.9	5.8								
							Bottom	2.5	1	23.7	8.4	32.2	8.0	113.7	2.3	8.6								
									2	23.7	8.4	32.2	8.0	113.6	2.2	8.2								
		13-11-20	Mid-Flood	TCE-C1	Cloudy	Moderate	15:45	7.8	Surface	1.0	1	23.4	8.4	32.4	8.4	119.3	3.5	9.9	8.3	6.0	7.9			
											2	23.4	8.4	32.4	8.4	119.1	3.6	8.9						
									Middle	3.9	1	23.4	8.4	32.4	8.2	115.6	5.0	8.4						
											2	23.4	8.4	32.4	8.2	115.5	5.1	7.5						
						Bottom	6.8	1	23.4	8.4	32.4	8.1	114.4	9.3	6.6	8.1								
								2	23.4	8.4	32.4	8.1	114.3	9.4	6.0									
				TCE-C2	Cloudy	Moderate	18:00	13.5	Surface	1.0	1	24.1	8.3	32.5	7.3				103.8	2.3	7.0	7.1	3.8	7.8
											2	24.1	8.3	32.5	7.3				103.9	2.4	7.3			
									Middle	6.8	1	24.1	8.3	32.5	7.0	100.9	3.0	7.5						
											2	24.1	8.3	32.5	7.1	100.9	3.1	7.8						
				Bottom	12.5	1	24.1	8.3	32.5	7.1	102.2	5.9	8.2	7.1										
						2	24.1	8.3	32.5	7.1	102.2	6.0	9.0											
TCE-WQM1	Cloudy			Calm	16:30	8.5	Surface	1.0	1	23.9	8.4	32.2	8.3				118.6	3.7	8.9	8.5	5.8	9.1		
									2	23.9	8.4	32.2	8.3				118.7	3.7	8.7					
							Middle	4.3	1	23.8	8.4	32.3	8.8	124.7	5.2	8.9								
									2	23.8	8.4	32.3	8.8	124.6	5.5	8.7								
				Bottom	7.5	1	23.8	8.4	32.3	8.7	123.3	8.4	9.4	8.7										
						2	23.8	8.4	32.3	8.7	123.2	8.6	9.7											
TCE-WQM2a	Cloudy			Moderate	17:13	7.6	Surface	1.0	1	23.7	8.4	32.1	8.6				121.6	3.5	8.1	8.6	5.3	9.4		
									2	23.7	8.4	32.1	8.6				121.6	3.5	8.7					
							Middle	3.8	1	23.7	8.4	32.1	8.6	121.4	4.0	8.8								
									2	23.7	8.4	32.1	8.6	121.3	3.9	9.6								
				Bottom	6.6	1	23.7	8.4	32.1	8.5	120.6	7.8	10.7	8.5										
						2	23.7	8.4	32.1	8.5	120.5	8.8	10.2											
TCE-WQM2b	Cloudy			Moderate	17:26	12.4	Surface	1.0	1	23.9	8.3	32.2	7.9				112.9	5.2	13.6	7.9	7.0	13.0		
									2	23.9	8.3	32.2	7.9				112.9	5.4	12.7					
							Middle	6.2	1	23.9	8.3	32.2	7.9	112.7	7.0	13.2								
									2	23.9	8.3	32.2	7.9	112.7	6.8	12.9								
				Bottom	11.4	1	23.9	8.3	32.2	7.9	112.1	8.8	12.9	7.9										
						2	23.9	8.3	32.3	7.9	112.1	8.7	12.4											
TCE-WQM3A	Cloudy			Calm	16:59	4.3	Surface	1.0	1	24.0	8.4	32.2	8.3				118.8	5.9	12.9	8.3	6.2	15.2		
									2	24.0	8.4	32.2	8.3				118.8	6.0	13.1					
							Bottom	3.3	1	24.0	8.4	32.2	8.3	118.1	6.4	17.0								
									2	24.0	8.4	32.2	8.3	118.0	6.4	17.6								
TCE-WQM4	Cloudy			Calm	16:46	3.4	Surface	1.0	1	23.9	8.4	32.2	8.2	116.6	6.1	15.8	8.2	7.9	14.9					
									2	23.9	8.4	32.2	8.2	116.5	6.3	15.0								
							Bottom	2.4	1	23.9	8.4	32.2	8.1	115.8	9.5	14.4								
									2	23.9	8.4	32.2	8.1	115.8	9.8	14.4								

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)					
16-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	2:57	8.1	Surface	1.0	1	23.2	8.1	31.5	7.1	99.1	9.7	7.1	7.0	11.4	7.8					
									2	23.2	8.1	31.4	7.1	99.1	9.7	8.0								
							Middle	4.1	1	23.1	8.1	32.0	6.9	97.5	11.9	7.3								
									2	23.1	8.1	32.0	6.9	97.3	11.9	8.0								
				Bottom	7.1	1	23.1	8.1	32.3	6.9	97.4	12.4	8.7	6.9										
						2	23.1	8.1	32.3	6.9	97.4	12.5	7.9											
		TCE-C2	Cloudy	Moderate	0:59	12.9	Surface	1.0	1	23.6	8.1	33.0	6.8				96.4	3.0	6.4	6.7	3.6	5.6		
									2	23.6	8.1	33.0	6.8				96.4	3.1	7.5					
							Middle	6.5	1	23.6	8.1	33.0	6.7	95.3	3.4	4.6								
									2	23.6	8.1	33.0	6.7	95.3	3.4	5.4								
				Bottom	11.9	1	23.6	8.1	33.0	6.8	96.8	4.3	5.1	6.8										
						2	23.6	8.1	33.0	6.8	96.9	4.4	4.5											
		TCE-WQM1	Cloudy	Calm	2:30	7.9	Surface	1.0	1	23.2	8.2	32.8	6.8				96.6	8.8	9.8	6.8	8.7	9.0		
									2	23.2	8.2	32.8	6.8				96.5	8.9	9.1					
							Middle	4.0	1	23.2	8.2	32.8	6.8	96.7	8.4	8.2								
									2	23.2	8.2	32.8	6.8	96.6	8.6	9.1								
				Bottom	6.9	1	23.2	8.2	32.8	6.9	97.0	8.7	8.6	6.9										
						2	23.2	8.2	32.8	6.9	97.0	9.0	8.9											
		TCE-WQM2a	Cloudy	Moderate	1:52	7.4	Surface	1.0	1	23.4	8.1	32.6	7.2				101.6	6.6	10.0	7.2	6.5	8.8		
									2	23.4	8.1	32.6	7.2				101.6	6.6	9.3					
							Middle	3.7	1	23.4	8.1	32.7	7.1	101.0	6.3	8.1								
									2	23.4	8.1	32.7	7.1	101.0	6.3	9.0								
				Bottom	6.4	1	23.4	8.1	32.7	7.1	100.8	6.7	8.2	7.1										
						2	23.4	8.1	32.7	7.1	100.8	6.5	8.3											
		TCE-WQM2b	Cloudy	Moderate	1:40	10.9	Surface	1.0	1	23.6	8.1	32.7	7.2				102.1	4.9	8.0	7.2	6.1	6.4		
									2	23.6	8.1	32.7	7.2				101.9	5.0	7.1					
							Middle	5.5	1	23.6	8.1	32.7	7.2	101.6	5.8	6.4								
									2	23.6	8.1	32.7	7.1	101.5	5.8	5.7								
				Bottom	9.9	1	23.5	8.1	32.7	7.1	101.1	7.6	5.9	7.1										
						2	23.5	8.1	32.7	7.1	101.0	7.7	5.4											
		TCE-WQM3A	Cloudy	Calm	2:05	4.2	Surface	1.0	1	23.6	8.1	32.7	7.2				101.8	6.0	5.9	7.1	7.0	7.0		
									2	23.6	8.1	32.7	7.1				101.7	6.0	5.5					
							Bottom	3.2	1	23.6	8.1	32.8	7.1	100.5	8.0	8.4								
									2	23.6	8.1	32.8	7.1	100.6	8.1	8.2								
		TCE-WQM4	Cloudy	Calm	2:17	3.9	Surface	1.0	1	23.4	8.2	32.7	7.1	100.6	7.9	8.8	7.1	7.8	7.9					
									2	23.4	8.2	32.7	7.1	100.6	7.9	8.0								
							Bottom	2.9	1	23.4	8.2	32.9	7.1	100.2	7.6	7.4								
									2	23.4	8.2	32.9	7.1	100.2	7.6	7.5								
		16-11-20	Mid-Flood	TCE-C1	Fine	Moderate	6:52	7.1	Surface	1.0	1	23.1	8.1	31.7	7.0	98.2	10.1	9.4	7.0	11.9	7.7			
											2	23.1	8.1	31.6	7.0	98.2	10.2	8.8						
									Middle	3.6	1	23.1	8.1	32.1	6.9	97.5	12.1	8.1						
											2	23.1	8.1	32.1	6.9	97.5	12.4	7.5						
						Bottom	6.1	1	23.0	8.1	32.4	6.9	97.4	13.2	6.6	6.9								
								2	23.0	8.1	32.4	6.9	97.4	13.1	5.9									
				TCE-C2	Fine	Moderate	9:00	12.8	Surface	1.0	1	23.4	8.0	32.8	7.1				100.6	5.9	5.2	7.1	8.0	6.4
											2	23.4	8.0	32.8	7.1				100.5	5.8	4.7			
									Middle	6.4	1	23.4	8.0	32.9	7.1	100.1	7.7	6.5						
											2	23.4	8.0	32.9	7.1	100.1	7.8	7.3						
				Bottom	11.8	1	23.4	8.0	32.9	7.1	100.3	10.4	6.9	7.1										
						2	23.4	8.0	32.9	7.1	100.5	10.4	7.8											
TCE-WQM1	Fine			Calm	7:16	8.1	Surface	1.0	1	23.1	8.1	32.9	6.9				97.1	13.7	7.7	6.9	13.8	12.7		
									2	23.1	8.1	32.9	6.9				97.3	13.6	8.3					
							Middle	4.1	1	23.1	8.1	32.9	6.9	97.5	13.5	13.4								
									2	23.1	8.1	32.9	6.9	97.6	13.6	14.6								
				Bottom	7.1	1	23.1	8.1	32.9	6.9	97.2	14.1	16.4	6.9										
						2	23.1	8.1	32.9	6.9	97.2	14.2	15.6											
TCE-WQM2a	Fine			Moderate	7:53	6.6	Surface	1.0	1	23.2	8.1	32.6	7.1				100.8	11.3	7.9	7.1	12.8	9.4		
									2	23.2	8.1	32.6	7.1				100.8	11.3	8.7					
							Middle	3.3	1	23.2	8.1	32.6	7.1	100.5	12.3	8.8								
									2	23.2	8.1	32.6	7.1	100.5	12.5	9.0								
				Bottom	5.6	1	23.2	8.1	32.6	7.1	100.0	14.7	11.4	7.1										
						2	23.2	8.1	32.6	7.1	100.2	14.4	10.8											
TCE-WQM2b	Fine			Moderate	8:08	11.0	Surface	1.0	1	23.2	8.1	32.6	7.1				100.5	11.5	9.6	7.1	13.7	10.9		
									2	23.2	8.1	32.6	7.1				100.5	11.5	10.2					
							Middle	5.5	1	23.2	8.1	32.6	7.1	100.0	13.8	10.6								
									2	23.2	8.1	32.6	7.1	100.0	13.8	11.1								
				Bottom	10.0	1	23.2	8.1	32.6	7.1	100.0	15.8	11.8	7.1										
						2	23.2	8.1	32.6	7.1	100.0	15.8	12.3											
TCE-WQM3A	Fine			Calm	7:43	4.2	Surface	1.0	1	23.3	8.1	32.8	6.9				98.3	9.3	9.8	6.9	9.8	8.9		
									2	23.3	8.1	32.8	6.9				98.3	9.4	9.8					
							Bottom	3.2	1	23.3	8.1	32.9	6.9	98.1	10.3	7.5								
									2	23.3	8.1	32.9	6.9	98.1	10.2	8.4								
TCE-WQM4	Fine			Calm	7:30	3.4	Surface	1.0	1	23.3	8.1	32.7	7.0	99.4	10.6	9.1	7.0	11.8	8.3					
									2	23.3	8.1	32.7	7.0	99.2	10.7	8.6								
							Bottom	2.4	1	23.3	8.1	32.7	7.0	98.3	12.8	7.3								
									2	23.3	8.1	32.7	6.9	98.2	12.9	8.2								

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)					
18-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	4:20	8.0	Surface	1.0	1	23.6	8.1	31.6	6.9	96.8	13.6	27.1	6.8	15.0	23.4					
									2	23.6	8.1	31.6	6.9	96.8	13.6	28.3								
							Middle	4.0	1	23.6	8.1	31.6	6.8	96.3	13.5	21.7								
									2	23.6	8.1	31.6	6.8	96.3	13.5	23.1								
				Bottom	7.0	1	23.5	8.1	31.6	6.8	96.0	17.8	20.6	6.8										
						2	23.5	8.1	31.6	6.8	96.0	17.8	19.6											
		TCE-C2	Cloudy	Moderate	2:21	12.8	Surface	1.0	1	23.7	8.1	32.1	6.9				97.4	7.3	5.3	6.9	8.7	6.5		
									2	23.7	8.1	32.1	6.9				97.4	7.4	6.0					
							Middle	6.4	1	23.7	8.1	32.1	6.9	97.2	8.6	6.5								
									2	23.7	8.1	32.1	6.9	97.3	8.7	6.9								
				Bottom	11.8	1	23.7	8.1	32.2	6.8	97.1	10.0	7.8	6.8										
						2	23.7	8.1	32.2	6.9	97.2	9.9	6.7											
		TCE-WQM1	Cloudy	Moderate	3:41	7.5	Surface	1.0	1	23.5	8.0	32.1	6.8				96.9	7.9	16.1	6.8	7.8	15.6		
									2	23.5	8.0	32.1	6.8				96.8	7.9	16.4					
							Middle	3.8	1	23.5	8.0	32.1	6.8	96.6	7.7	15.4								
									2	23.5	8.0	32.1	6.8	96.5	7.7	15.5								
				Bottom	6.5	1	23.5	8.0	32.2	6.8	96.0	7.7	15.2	6.8										
						2	23.5	8.0	32.2	6.8	96.0	7.7	14.9											
		TCE-WQM2a	Cloudy	Moderate	3:04	6.3	Surface	1.0	1	23.6	8.1	32.2	6.8				96.6	5.7	6.2	6.8	5.9	6.1		
									2	23.6	8.1	32.2	6.8				96.6	5.7	6.8					
							Middle	3.2	1	23.6	8.1	32.2	6.8	96.5	5.8	6.4								
									2	23.6	8.1	32.2	6.8	96.5	5.8	6.0								
				Bottom	5.3	1	23.6	8.1	32.2	6.8	96.4	6.1	5.6	6.8										
						2	23.6	8.1	32.2	6.8	96.4	6.1	5.8											
		TCE-WQM2b	Cloudy	Moderate	2:50	11.2	Surface	1.0	1	23.6	8.1	32.2	6.8				96.1	6.6	11.2	6.8	8.3	10.3		
									2	23.6	8.1	32.2	6.8				96.1	6.6	11.8					
							Middle	5.6	1	23.6	8.1	32.2	6.8	96.3	9.5	10.0								
									2	23.6	8.1	32.2	6.8	96.3	9.5	9.5								
				Bottom	10.2	1	23.6	8.1	32.2	6.8	96.7	8.8	9.7	6.8										
						2	23.6	8.1	32.2	6.8	96.7	8.8	9.5											
		TCE-WQM3A	Cloudy	Moderate	3:18	3.9	Surface	1.0	1	23.6	8.1	32.2	6.6				94.1	13.1	8.3	6.6	14.4	9.6		
									2	23.6	8.1	32.2	6.6				94.1	13.1	9.2					
							Bottom	2.9	1	23.6	8.2	32.2	6.6	94.1	15.7	11.0								
									2	23.6	8.2	32.2	6.6	94.1	15.7	10.0								
		TCE-WQM4	Cloudy	Moderate	3:28	3.1	Surface	1.0	1	23.6	8.1	32.2	6.8	96.3	8.6	19.5	6.8	8.6	19.2					
									2	23.6	8.1	32.2	6.8	96.4	8.5	19.5								
							Bottom	2.1	1	23.6	8.1	32.2	6.8	96.0	8.6	19.0								
									2	23.6	8.1	32.2	6.8	96.0	8.6	18.8								
		18-11-20	Mid-Flood	TCE-C1	Cloudy	Moderate	8:16	7.9	Surface	1.0	1	23.6	8.1	31.6	6.6	92.9	15.4	9.4	6.5	16.6	10.5			
											2	23.6	8.1	31.6	6.6	92.9	15.4	8.6						
									Middle	4.0	1	23.6	8.1	31.6	6.4	90.1	16.6	10.3						
											2	23.6	8.1	31.6	6.4	90.1	16.6	11.8						
						Bottom	6.9	1	23.6	8.1	31.2	6.8	96.1	17.8	11.8	6.8								
								2	23.6	8.1	31.2	6.8	96.1	17.8	10.9									
				TCE-C2	Cloudy	Moderate	10:27	12.8	Surface	1.0	1	23.8	8.1	32.1	6.7				95.3	6.4	10.8	6.6	9.5	10.8
											2	23.8	8.1	32.1	6.7				95.3	6.4	11.6			
									Middle	6.4	1	23.7	8.1	32.3	6.6	93.8	10.5	10.4						
											2	23.7	8.1	32.3	6.6	93.8	10.5	11.2						
				Bottom	11.8	1	23.7	8.1	32.5	6.6	94.1	11.6	10.5	6.6										
						2	23.7	8.1	32.5	6.6	94.1	11.6	10.5											
TCE-WQM1	Cloudy			Moderate	9:01	7.0	Surface	1.0	1	23.5	8.1	32.2	6.7				95.4	16.7	30.1	6.7	16.9	21.4		
									2	23.5	8.1	32.2	6.7				95.4	16.7	31.3					
							Middle	3.5	1	23.5	8.1	32.2	6.8	95.7	17.1	25.5								
									2	23.5	8.1	32.2	6.8	95.7	17.1	24.0								
				Bottom	6.0	1	23.5	8.1	32.2	6.8	96.0	16.9	8.7	6.8										
						2	23.5	8.1	32.2	6.8	96.0	16.9	9.0											
TCE-WQM2a	Cloudy			Moderate	9:42	7.4	Surface	1.0	1	23.7	8.0	31.7	6.8				95.7	8.4	7.8	6.6	13.2	8.3		
									2	23.7	8.0	31.7	6.8				95.7	8.4	8.4					
							Middle	3.7	1	23.6	8.0	31.8	6.5	91.9	15.6	7.8								
									2	23.6	8.0	31.8	6.5	91.9	15.6	8.6								
				Bottom	6.4	1	23.6	8.0	31.8	5.4	77.0	15.7	8.9	5.4										
						2	23.6	8.0	31.8	5.4	77.0	15.7	8.0											
TCE-WQM2b	Cloudy			Moderate	9:54	11.0	Surface	1.0	1	23.8	8.1	31.7	6.8				96.9	13.9	11.4	6.8	14.6	10.0		
									2	23.8	8.1	31.7	6.8				96.9	13.9	10.6					
							Middle	5.5	1	23.7	8.1	31.7	6.9	97.0	14.2	10.5								
									2	23.7	8.1	31.7	6.9	97.0	14.2	10.0								
				Bottom	10.0	1	23.7	8.1	31.7	6.8	96.7	15.8	8.5	6.8										
						2	23.7	8.1	31.7	6.8	96.7	15.8	9.2											
TCE-WQM3A	Cloudy			Moderate	9:29	3.7	Surface	1.0	1	23.7	8.0	32.1	6.8				96.0	8.9	14.0	6.8	9.3	11.0		
									2	23.7	8.0	32.1	6.8				96.0	8.9	13.6					
							Bottom	2.7	1	23.7	8.0	32.1	6.8	96.5	9.6	8.5								
									2	23.7	8.0	32.1	6.8	96.5	9.6	8.5								
TCE-WQM4	Cloudy			Moderate	9:17	3.3	Surface	1.0	1	23.6	8.1	32.0	6.8	95.9	14.5	5.0	6.8	16.5	6.0					
									2	23.6	8.1	32.0	6.8	95.9	14.5	6.1								
							Bottom	2.3	1	23.6	8.1	32.0	6.8	95.7	18.4	6.2								
									2	23.6	8.1	32.0	6.8	95.7	18.4	6.0								





Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
25-11-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	10:39	8.2	Surface	1.0	1	24.3	7.8	30.9	6.9	98.6	1.9	5.2	6.9	3.8	5.8					
									2	24.3	7.8	30.9	6.9	98.8	1.9	5.4								
							Middle	4.1	1	24.1	7.8	32.0	6.9	97.9	3.6	6.2								
									2	24.1	7.8	32.0	6.8	97.7	3.9	5.6								
				Bottom	7.2	1	24.0	7.8	32.3	6.8	97.7	5.6	5.9	6.8										
						2	24.0	7.8	32.3	6.8	97.7	5.6	6.6											
		TCE-C2	Cloudy	Moderate	8:36	12.9	Surface	1.0	1	24.4	7.9	30.4	6.4				90.3	1.3	5.0	6.2	3.4	5.0		
									2	24.4	7.9	30.4	6.3				90.2	1.3	5.9					
							Middle	6.5	1	24.2	7.9	30.6	6.1	87.2	1.6	5.7								
									2	24.2	7.9	30.6	6.1	87.2	1.6	5.0								
				Bottom	11.9	1	24.2	7.9	31.2	6.0	85.0	7.1	4.6	6.0										
						2	24.2	7.9	31.3	6.0	85.1	7.2	3.9											
		TCE-WQM1	Cloudy	Calm	10:00	7.7	Surface	1.0	1	25.0	7.7	30.5	6.7				96.2	9.7	6.0	6.7	10.4	4.5		
									2	24.9	7.7	30.5	6.7				96.1	9.8	6.5					
							Middle	3.9	1	24.5	7.7	30.8	6.6	94.8	10.3	4.0								
									2	24.5	7.7	30.8	6.6	94.9	10.1	4.0								
				Bottom	6.7	1	24.4	7.8	30.9	6.7	95.9	11.1	2.9	6.7										
						2	24.4	7.8	30.9	6.7	96.0	11.2	3.7											
		TCE-WQM2a	Cloudy	Moderate	9:22	6.6	Surface	1.0	1	24.5	7.8	30.4	6.2				89.0	10.3	3.2	6.1	11.7	5.1		
									2	24.5	7.8	30.4	6.2				89.0	10.3	4.2					
							Middle	3.3	1	24.3	7.8	30.7	5.9	84.5	11.2	4.7								
									2	24.3	7.8	30.7	5.9	84.4	11.1	5.6								
				Bottom	5.6	1	24.2	7.8	31.0	5.9	83.6	13.7	5.9	5.9										
						2	24.2	7.8	31.0	5.9	83.6	13.8	6.7											
		TCE-WQM2b	Cloudy	Moderate	9:08	10.7	Surface	1.0	1	24.7	8.2	30.0	6.5				93.1	1.1	4.9	6.5	2.8	3.8		
									2	24.7	8.2	30.0	6.5				93.0	1.1	4.1					
							Middle	5.4	1	24.4	8.3	30.2	6.5	92.2	3.6	3.6								
									2	24.4	8.3	30.2	6.4	91.7	3.4	3.4								
				Bottom	9.7	1	24.4	8.3	30.4	6.5	91.8	3.8	3.2	6.5										
						2	24.4	8.3	30.4	6.5	91.8	3.7	3.5											
		TCE-WQM3A	Cloudy	Calm	9:36	4.2	Surface	1.0	1	24.7	7.9	29.8	6.1				87.2	11.4	9.5	6.1	11.2	10.9		
									2	24.7	7.9	29.8	6.1				87.3	11.5	10.2					
							Bottom	3.2	1	24.4	7.9	30.2	6.2	88.5	10.9	12.4								
									2	24.4	7.9	30.2	6.2	88.6	11.1	11.6								
		TCE-WQM4	Cloudy	Calm	9:47	3.5	Surface	1.0	1	24.5	7.8	30.2	6.5	92.2	8.4	10.8	6.5	9.9	7.9					
									2	24.5	7.8	30.2	6.5	92.3	8.4	9.8								
							Bottom	2.5	1	24.5	7.8	30.4	6.9	98.3	11.4	5.7								
									2	24.5	7.8	30.4	6.9	98.5	11.4	5.1								
		25-11-20	Mid-Flood	TCE-C1	Cloudy	Moderate	14:50	8.3	Surface	1.0	1	24.4	7.9	31.0	7.0	99.3	2.7	4.0	6.9	3.8	4.8			
											2	24.4	7.9	31.0	6.9	99.1	2.7	3.9						
									Middle	4.2	1	24.1	7.9	32.0	6.9	98.0	3.3	4.2						
											2	24.1	7.9	32.0	6.9	97.9	3.4	5.1						
						Bottom	7.3	1	24.0	7.9	32.3	6.8	97.8	5.5	6.4	6.8								
								2	24.0	7.8	32.3	6.8	97.6	4.9	5.4									
				TCE-C2	Cloudy	Moderate	17:00	12.9	Surface	1.0	1	24.4	7.8	30.8	6.3				90.1	2.8	3.3	6.2	6.3	2.7
											2	24.4	7.8	30.8	6.3				90.1	2.8	2.4			
									Middle	6.5	1	24.2	7.8	31.4	6.2	87.8	7.8	2.6						
											2	24.2	7.8	31.4	6.2	87.8	8.0	3.0						
				Bottom	11.9	1	24.1	7.7	31.5	6.3	89.9	8.3	2.3	6.3										
						2	24.1	7.7	31.4	6.3	90.0	8.1	2.6											
TCE-WQM1	Cloudy			Moderate	15:36	7.9	Surface	1.0	1	25.2	7.8	30.1	6.7				96.8	5.6	6.0	6.7	9.8	7.2		
									2	25.2	7.8	30.1	6.7				96.7	5.7	6.2					
							Middle	4.0	1	24.8	7.8	30.4	6.7	95.6	11.4	7.4								
									2	24.8	7.8	30.4	6.7	95.5	11.4	6.5								
				Bottom	6.9	1	24.6	7.8	30.6	6.7	96.1	12.4	8.2	6.7										
						2	24.6	7.8	30.6	6.7	96.3	12.4	9.0											
TCE-WQM2a	Cloudy			Moderate	16:16	6.8	Surface	1.0	1	24.5	7.7	30.5	6.2				88.9	6.0	5.2	6.2	9.8	6.2		
									2	24.5	7.7	30.5	6.2				88.9	6.0	5.9					
							Middle	3.4	1	24.5	7.7	30.6	6.2	88.9	10.2	5.5								
									2	24.5	7.7	30.6	6.2	89.0	10.3	6.3								
				Bottom	5.8	1	24.5	7.7	30.6	6.4	91.9	13.1	6.9	6.4										
						2	24.5	7.7	30.6	6.4	92.0	13.1	7.1											
TCE-WQM2b	Cloudy			Moderate	16:28	10.9	Surface	1.0	1	24.8	7.7	30.5	6.5				93.2	1.8	6.2	6.4	4.0	4.6		
									2	24.8	7.7	30.5	6.5				93.0	1.9	5.3					
							Middle	5.5	1	24.5	7.7	30.6	6.3	90.6	4.7	5.1								
									2	24.5	7.7	30.6	6.3	90.5	4.7	4.2								
				Bottom	9.9	1	24.4	7.7	30.7	6.5	92.5	5.3	3.5	6.5										
						2	24.4	7.7	30.7	6.5	92.6	5.4	3.2											
TCE-WQM3A	Cloudy			Moderate	16:03	4.2	Surface	1.0	1	24.9	7.8	30.2	6.3				90.1	10.1	7.8	6.3	11.1	7.0		
									2	24.9	7.8	30.2	6.3				89.7	10.0	7.2					
							Bottom	3.2	1	24.8	7.8	30.3	6.4	90.8	12.2	6.1								
									2	24.8	7.8	30.3	6.4	91.3	12.1	6.7								
TCE-WQM4	Cloudy			Calm	15:51	3.6	Surface	1.0	1	24.7	7.8	30.4	6.4	91.7	11.8	8.9	6.4	12.5	8.0					
									2	24.7	7.8	30.4	6.4	91.7	11.8	8.0								
							Bottom	2.6	1	24.7	7.8	30.4	6.5	93.5	13.1	7.1								
									2	24.7	7.8	30.4	6.6	93.7	13.1	7.8								



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)								
27-11-20	Mid-Ebb	TCE-C1	Fine	Rough	12:25	8.3	Surface	1.0	1	23.9	8.0	31.1	7.4	104.3	2.6	4.8	7.3	3.8	4.5								
									2	23.9	8.0	31.1	7.4	104.1	2.7	5.6											
							Middle	4.2	1	23.9	8.0	31.3	7.2	102.3	3.4	4.5											
									2	23.9	8.0	31.3	7.2	102.2	3.4	4.7											
				Bottom	7.3	1	23.7	8.0	32.2	7.0	99.0	5.2	4.0	7.0													
						2	23.7	8.0	32.2	7.0	99.1	5.2	3.6														
		TCE-C2	Fine	Moderate	10:08	14.2	Surface	1.0	1	24.1	7.9	31.3	6.2				88.3	1.9	4.8	6.1	2.3	4.5					
									2	24.1	7.9	31.3	6.2				88.2	1.9	4.0								
							Middle	7.1	1	24.0	7.9	31.9	6.0	85.7	2.2	4.9											
						2	24.0	7.9	31.9	6.0	85.6	2.1	4.2	6.0													
				Bottom	13.2	1	24.0	7.9	31.9	6.0	86.1	2.8	4.5														
						2	24.0	7.9	31.9	6.0	86.0	2.7	4.6														
		TCE-WQM1	Fine	Calm	11:33	8.7	Surface	1.0	1	24.6	8.0	31.3	6.8	97.7	3.5	6.7	6.8	4.6	6.4								
									2	24.6	8.0	31.3	6.8	97.6	3.5	5.9											
							Middle	4.4	1	24.6	8.0	31.3	6.8	97.4	4.3	6.9											
									2	24.6	8.0	31.3	6.8	97.5	4.4	5.9											
									Bottom	7.7	1	24.6	8.0	31.3	6.8	97.4				5.8	6.8	6.8					
											2	24.6	8.0	31.3	6.8	97.5				5.9	5.9						
							TCE-WQM2a	Fine	Moderate	10:54	7.5	Surface	1.0	1	24.4	7.9				30.8	6.4				90.5	4.3	5.5
														2	24.4	7.9				30.8	6.4	90.5	4.3	5.5			
												Middle	3.8	1	24.4	7.9				30.8	6.3	89.5	5.0	5.9			
						2	24.4	7.9	30.8	6.3	89.6	5.1	5.6	6.3													
				Bottom	6.5	1	24.3	8.0	31.1	6.3	90.3	7.1	6.0														
						2	24.3	8.0	31.1	6.3	90.4	7.0	6.4														
		TCE-WQM2b	Fine	Moderate	10:41	12.1	Surface	1.0	1	24.4	7.9	30.7	6.3	89.8	5.7	5.5	6.2	6.8	5.6								
									2	24.4	7.9	30.7	6.3	89.9	5.8	5.5											
							Middle	6.1	1	24.3	7.9	30.9	6.2	88.2	6.3	5.6											
									2	24.3	7.9	30.9	6.2	88.2	6.4	4.9											
									Bottom	11.1	1	24.2	8.0	31.5	6.1	86.4				8.3	6.4	6.1					
											2	24.2	8.0	31.5	6.1	86.4				8.5	5.4						
		TCE-WQM3A	Fine	Calm	11:07	4.0	Surface	1.0	1	24.5	8.1	30.5	6.3	87.7	6.7	4.7	6.3	8.1	5.3								
									2	24.5	8.1	30.5	6.3	87.8	6.6	5.6											
							Bottom	3.0	1	24.5	8.1	30.5	6.3	88.4	9.4	6.0											
						2	24.5	8.1	30.5	6.3	88.5	9.6	5.0	6.3													
		TCE-WQM4	Fine	Calm	11:20	3.6	Surface	1.0	1	24.6	8.0	30.8	6.5				93.3	7.5	4.7	6.5	8.8	5.3					
									2	24.6	8.0	30.8	6.5				93.3	7.5	5.2								
							Bottom	2.6	1	24.4	8.0	30.8	6.7	95.0	9.9	6.1											
						2	24.4	8.0	30.8	6.7	95.1	10.1	5.2	6.7													
		27-11-20	Mid-Flood	TCE-C1	Fine	Rough	15:34	8.0	Surface	1.0	1	24.0	8.1				31.3	7.4	105.0	2.4	4.6	7.3	4.4	4.4			
											2	24.0	8.1				31.4	7.4	105.0	2.5	4.5						
									Middle	4.0	1	23.9	8.1	31.5	7.2	102.2	4.0	3.8									
						2	23.9	8.1	31.5	7.2	102.2	4.1	4.7	7.0													
				Bottom	7.0	1	23.8	8.0	32.1	7.0	99.4	6.8	4.2														
						2	23.8	8.0	32.1	7.0	99.4	6.7	4.3														
		TCE-C2	Fine	Moderate	17:40	13.9	Surface	1.0	1	24.7	8.0	30.7	6.6	93.9	3.1	4.9	6.5	4.3	4.9								
									2	24.7	8.0	30.7	6.6	93.9	3.1	4.2											
							Middle	7.0	1	24.5	8.0	31.2	6.4	91.0	3.6	5.5											
									2	24.5	8.0	31.2	6.4	90.9	3.7	4.9											
							Bottom	12.9	1	24.2	8.0	31.3	6.3	89.4	6.1	4.6				6.3							
									2	24.2	8.0	31.3	6.3	89.5	6.1	5.5											
TCE-WQM1	Fine						Calm	16:20	8.4	Surface	1.0	1	24.9	8.0	31.2	6.9							98.7	5.9	3.0	6.8	6.3
												2	24.9	8.0	31.2	6.9				98.8	5.9	4.0					
										Middle	4.2	1	24.7	8.0	31.2	6.8				98.1	6.0	5.4					
				2	24.7	8.0	31.2	6.8	98.1	6.0	6.3	6.9															
		Bottom	7.4	1	24.5	8.0	31.5	6.9	98.6	7.0	7.4																
				2	24.5	8.0	31.5	6.9	98.6	6.9	6.4																
TCE-WQM2a	Fine	Moderate	16:56	7.2	Surface	1.0	1	24.8	7.9	30.8	6.6	94.2	3.2	6.3	6.5	5.6	6.2										
							2	24.8	7.9	30.8	6.6	94.2	3.2	6.0													
					Middle	3.6	1	24.6	7.9	30.8	6.5	92.6	5.4	6.2													
							2	24.6	7.9	30.8	6.5	92.4	5.3	6.6													
							Bottom	6.2	1	24.5	7.9	30.8	6.5	92.4				8.0	6.1	6.5							
									2	24.5	7.9	30.8	6.5	92.5				8.2	6.0								
TCE-WQM2b	Fine	Moderate	17:11	12.3	Surface	1.0	1	24.7	8.0	30.3	6.7	95.7	3.2	5.0	6.6	4.2	5.6										
							2	24.7	8.0	30.3	6.7	95.7	3.2	5.8													
					Middle	6.2	1	24.6	8.0	30.3	6.6	93.6	4.3	4.7													
							2	24.6	8.0	30.3	6.5	93.4	4.4	5.6													
							Bottom	11.3	1	24.3	8.0	31.2	6.4	91.9				5.1	6.6	6.5							
									2	24.3	8.0	31.2	6.5	92.2				5.0	5.8								
TCE-WQM3A	Fine	Moderate	16:45	4.1	Surface	1.0	1	24.9	8.0	30.8	6.7	95.8	4.2	5.6	6.7	5.1	5.9										
							2	24.9	8.0	30.8	6.7	95.9	4.2	5.4													
					Bottom	3.1	1	24.6	8.0	30.8	6.6	94.5	6.0	6.5													
				2	24.6	8.0	30.8	6.6	94.6	6.0	6.0	6.6															
TCE-WQM4	Fine	Moderate	16:33	3.2	Surface	1.0	1	24.9	8.0	30.8	6.7				96.9	5.7	5.4	6.7	6.5	5.1							
							2	24.9	8.0	30.8	6.7				96.8	5.8	5.3										
					Bottom	2.2	1	24.9	8.0	30.8	6.8	98.2	7.1	4.6													
				2	24.9	8.0	30.8	6.8	98.3	7.2	5.1	6.8															

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)										
30-11-20	Mid-Ebb	TCE-C1	Fine	Rough	11:10	8.3	Surface	1.0	1	22.3	8.0	32.6	7.4	102.1	13.7	15.2	7.4	15.1	14.8										
									2	22.3	8.0	32.6	7.4	102.1	13.9	14.9													
							Middle	4.2	1	22.2	8.0	32.6	7.4	102.5	14.5	15.1													
									2	22.2	8.0	32.6	7.4	102.5	14.5	14.9													
							Bottom	7.3	1	22.2	8.0	32.6	7.4	103.0	16.9	14.6													
									2	22.2	8.0	32.6	7.4	103.1	16.9	14.0													
		TCE-C2	Fine	Moderate	13:17	14.6	Surface	1.0	1	23.1	7.8	32.3	6.7	94.4	5.7	5.9	6.6	7.4	5.4										
									2	23.1	7.8	32.3	6.7	94.4	5.6	6.6													
							Middle	7.3	1	23.0	7.8	32.3	6.5	91.5	7.2	4.7													
									2	23.0	7.8	32.3	6.5	91.6	7.2	5.4													
							Bottom	13.6	1	23.0	7.8	32.3	6.6	93.2	9.4	5.1													
									2	23.0	7.8	32.3	6.6	93.3	9.3	4.7													
		TCE-WQM1	Fine	Calm	11:59	8.6	Surface	1.0	1	22.4	7.9	31.5	7.0	96.4	5.7	7.0	7.0	6.2	8.8										
									2	22.4	7.9	31.5	7.0	96.5	5.6	6.6													
							Middle	4.3	1	22.4	7.9	31.5	7.0	97.2	6.6	9.5													
									2	22.4	7.9	31.5	7.0	97.2	6.6	10.0													
							Bottom	7.6	1	22.4	7.9	31.5	7.2	99.1	6.2	9.5													
									2	22.4	7.9	31.5	7.2	99.2	6.3	10.4													
		TCE-WQM2a	Fine	Moderate	12:37	7.2	Surface	1.0	1	23.0	7.7	31.7	6.5	91.5	5.7	10.2	6.5	8.5	9.8										
									2	23.0	7.7	31.7	6.5	91.5	5.7	10.6													
							Middle	3.6	1	22.9	7.7	31.7	6.5	90.9	8.1	9.7													
									2	22.9	7.7	31.7	6.5	91.0	8.2	9.5													
							Bottom	6.2	1	23.0	7.7	31.9	6.5	91.4	11.7	9.0													
									2	23.0	7.7	31.9	6.5	91.5	11.6	9.6													
		TCE-WQM2b	Fine	Moderate	12:51	12.8	Surface	1.0	1	23.3	7.7	32.1	6.6	93.4	4.6	4.4	6.6	7.2	6.2										
									2	23.3	7.7	32.1	6.6	93.4	4.6	9.8													
							Middle	6.4	1	23.1	7.8	32.3	6.5	92.0	6.5	5.3													
									2	23.1	7.8	32.3	6.5	92.0	6.5	6.0													
							Bottom	11.8	1	23.1	7.8	32.4	6.7	94.3	10.4	6.2													
									2	23.1	7.8	32.4	6.7	94.4	10.4	5.5													
		TCE-WQM3A	Fine	Calm	12:24	4.6	Surface	1.0	1	22.8	7.8	31.4	6.6	91.9	13.3	12.9	6.6	13.4	11.7										
									2	22.8	7.8	31.4	6.6	91.9	13.3	12.0													
							Bottom	3.6	1	22.8	7.8	31.4	6.8	94.1	13.5	10.5													
									2	22.8	7.8	31.4	6.8	94.1	13.5	11.4													
							TCE-WQM4	Fine	Calm	12:12	3.3	Surface	1.0	1	22.8	7.8				31.3	7.1	98.6	5.0	7.7	7.1	5.3	6.7		
														2	22.8	7.8				31.3	7.1	98.6	5.1	7.2					
		Bottom	2.3	1	22.7	7.9						31.3	7.3	101.0	5.6	6.1													
				2	22.7	7.9						31.3	7.3	101.0	5.4	5.8													
		30-11-20	Mid-Flood	TCE-C1	Cloudy	Rough						8:04	8.1	Surface	1.0	1	22.2	8.0	32.6	7.4	102.3	14.4	11.7	7.4				16.1	12.4
																2	22.2	8.0	32.6	7.4	102.4	14.5	12.2						
							Middle	4.1	1	22.2	8.0			32.6	7.4	102.9	15.8	11.9											
									2	22.2	8.0			32.6	7.4	102.7	15.8	12.5											
							Bottom	7.1	1	22.2	8.0			32.6	7.5	103.6	17.9	12.6											
									2	22.2	8.0			32.6	7.5	103.6	17.9	13.4											
				TCE-C2	Cloudy	Moderate	5:58	13.6	Surface	1.0	1	23.0	7.8	32.4	6.4	90.5	4.4	5.5	6.4	6.5	6.4								
											2	23.0	7.8	32.4	6.4	90.5	4.5	6.4											
									Middle	6.8	1	23.1	7.8	32.4	6.5	90.8	5.6	6.2											
											2	23.1	7.8	32.4	6.5	90.7	5.7	6.5											
Bottom	12.6								1	23.1	7.8	32.4	6.5	91.7	9.2	6.4													
									2	23.1	7.8	32.4	6.5	91.8	9.3	7.2													
TCE-WQM1	Cloudy			Calm	7:17	8.8	Surface	1.0	1	22.5	7.8	31.4	6.7	93.3	5.9	8.0	6.8	6.3	7.2										
									2	22.5	7.8	31.4	6.7	93.3	5.9	9.0													
							Middle	4.4	1	22.5	7.8	31.5	6.8	94.6	6.5	6.7													
									2	22.5	7.8	31.5	6.8	94.6	6.5	7.3													
							Bottom	7.8	1	22.5	7.8	31.4	7.1	97.6	6.4	6.4													
									2	22.5	7.8	31.4	7.1	97.7	6.4	5.9													
TCE-WQM2a	Cloudy			Moderate	6:38	7.3	Surface	1.0	1	22.9	7.8	31.8	6.6	92.3	7.7	10.1	6.7	8.5	10.1										
									2	22.9	7.8	31.8	6.6	92.3	7.7	9.6													
							Middle	3.7	1	22.9	7.8	31.8	6.7	94.0	8.3	9.9													
									2	22.9	7.8	31.8	6.7	94.0	8.3	10.2													
							Bottom	6.3	1	22.9	7.8	31.8	7.0	97.7	9.4	10.2													
									2	22.9	7.8	31.8	7.0	98.1	9.4	10.6													
TCE-WQM2b	Cloudy			Moderate	6:25	12.4	Surface	1.0	1	22.7	7.8	31.8	6.7	93.8	10.8	11.6	6.7	11.9	11.1										
									2	22.7	7.8	31.8	6.7	93.9	10.9	11.7													
							Middle	6.2	1	22.8	7.8	31.9	6.7	93.2	11.6	10.7													
									2	22.8	7.8	31.9	6.7	93.2	11.7	11.2													
							Bottom	11.4	1	22.9	7.8	31.9	6.9	96.3	13.2	11.0													
									2	22.9	7.8	31.9	6.9	96.4	13.2	10.5													
TCE-WQM3A	Cloudy			Calm	6:52	4.5	Surface	1.0	1	22.7	7.8	31.5	6.6	91.1	8.1	9.3	6.6	8.9	10.2										
									2	22.7	7.8	31.5	6.6	91.2	8.1	9.2													
							Bottom	3.5	1	22.7	7.8	31.5	6.7	92.8	9.7	10.9													
									2	22.7	7.8	31.5	6.7	92.9	9.7	11.2													
							TCE-WQM4	Cloudy	Calm	7:04	3.4	Surface	1.0	1	22.7	7.8				31.6	6.7	93.6	7.1	7.1	6.7	7.5	7.7		
														2	22.7	7.8				31.6	6.7	93.6	7.0	7.3					
Bottom	2.4			1	22.8	7.8						31.7	7.0	97.0	8.0	8.5													
				2	22.8	7.8						31.7	7.0	97.2	8.0	8.0													