

Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 November 2018

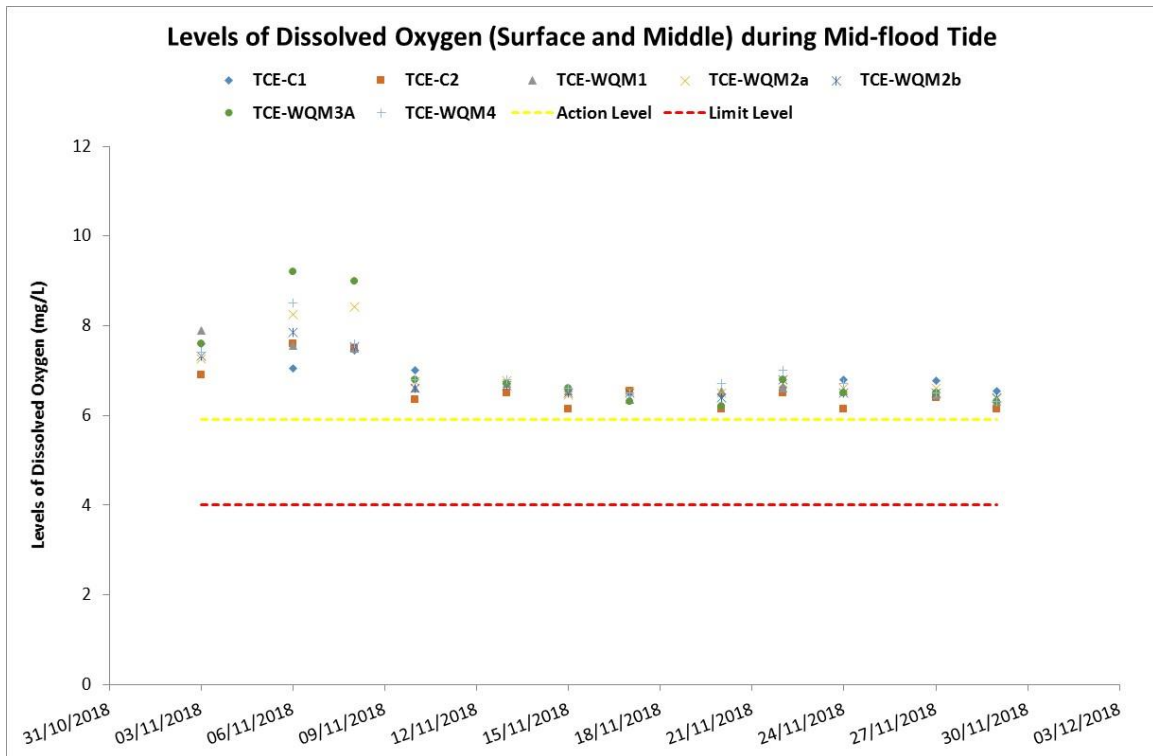


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 November 2018

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

Date: November 2018

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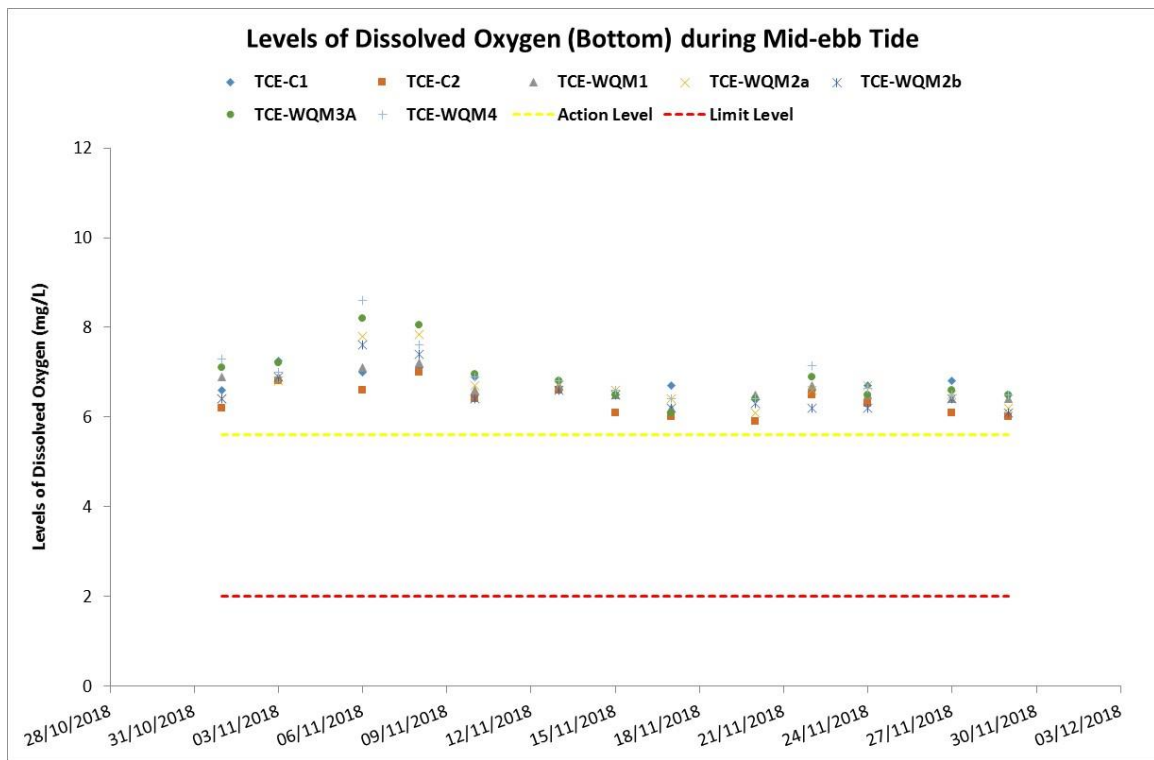


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 November 2018

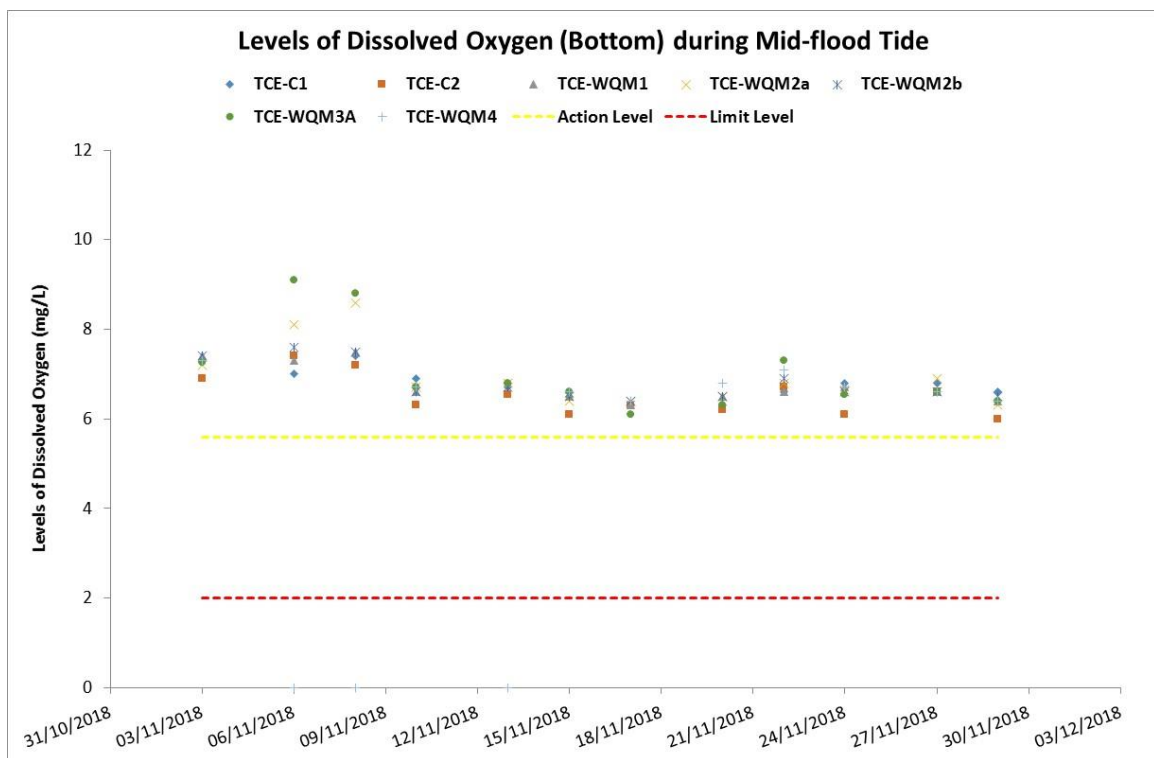


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 November 2018

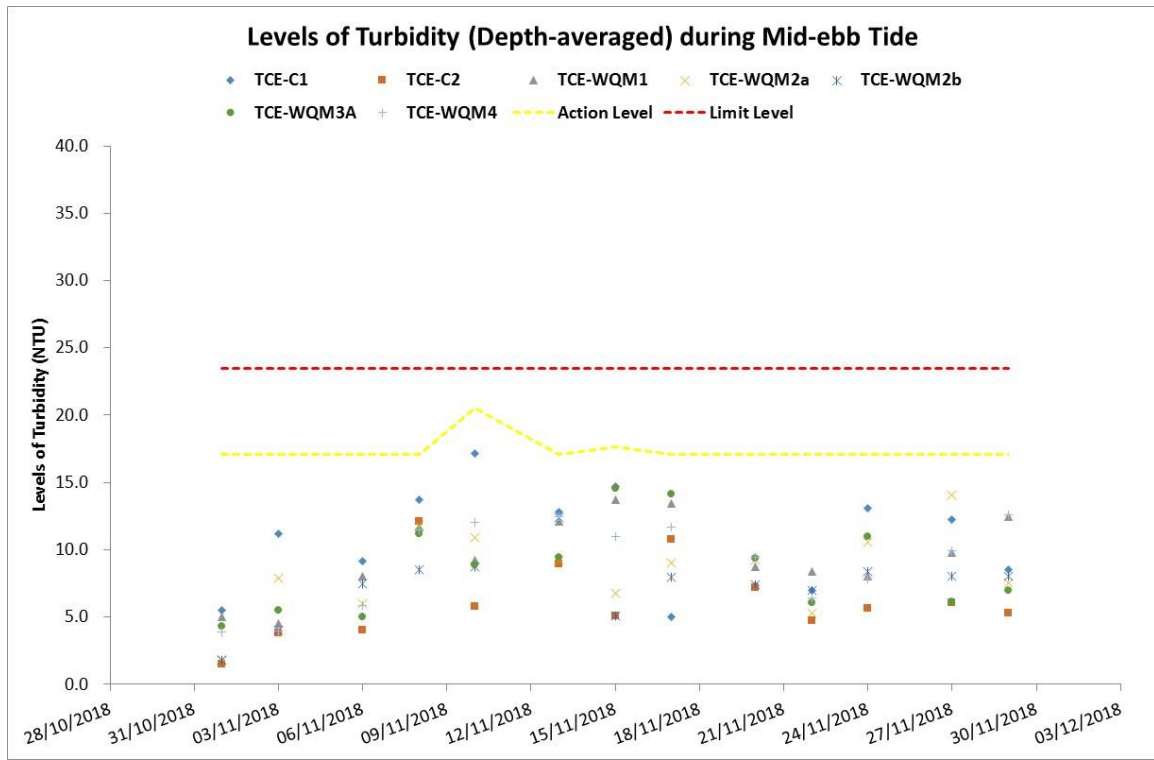


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 November 2018

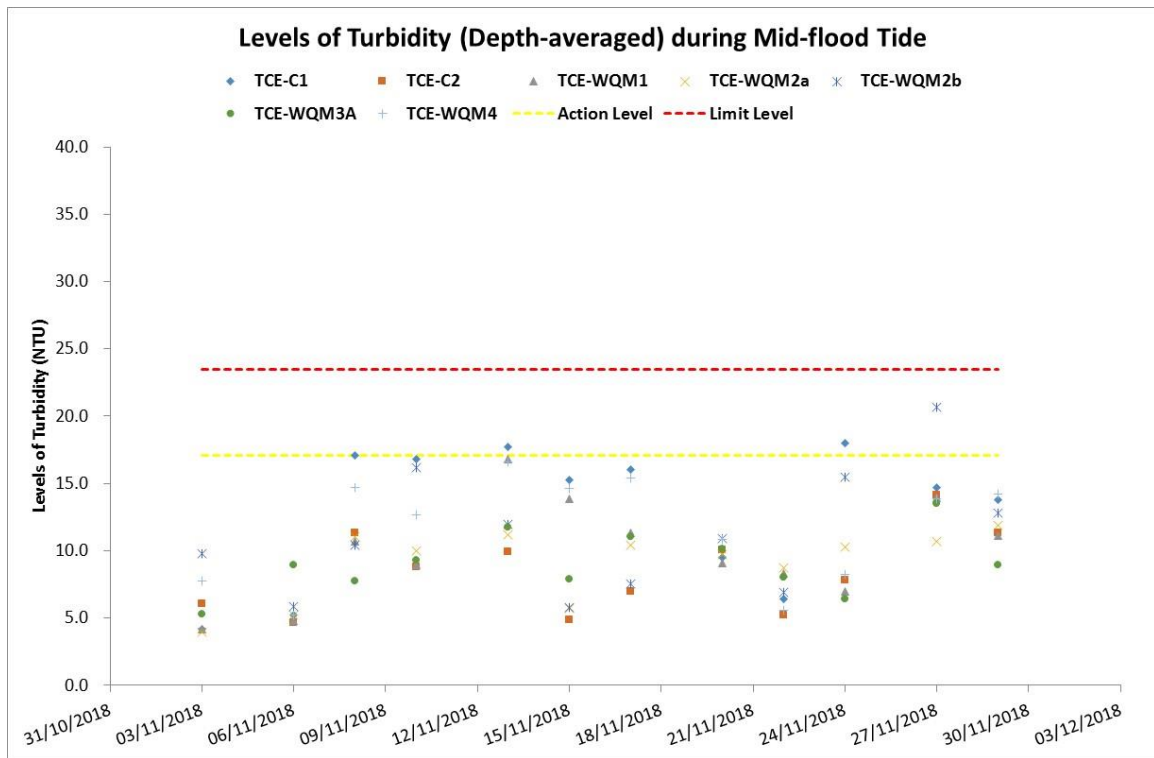


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 November 2018

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

Date: November 2018

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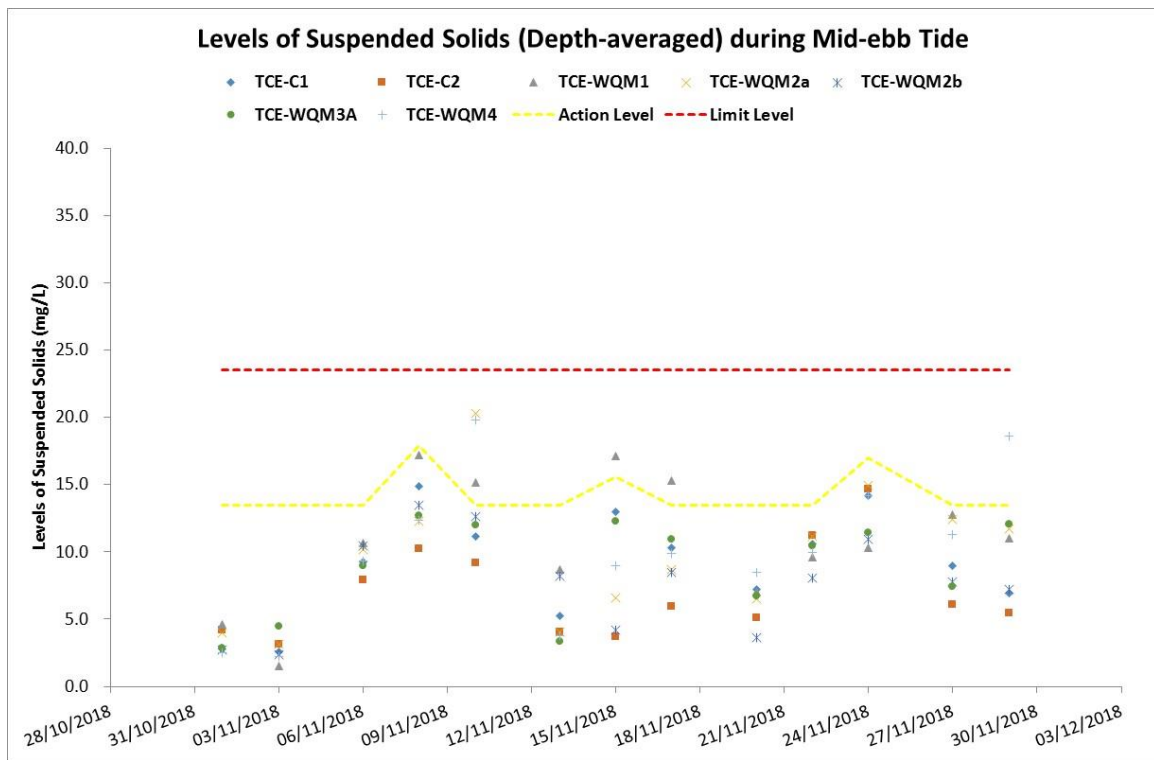


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 November 2018

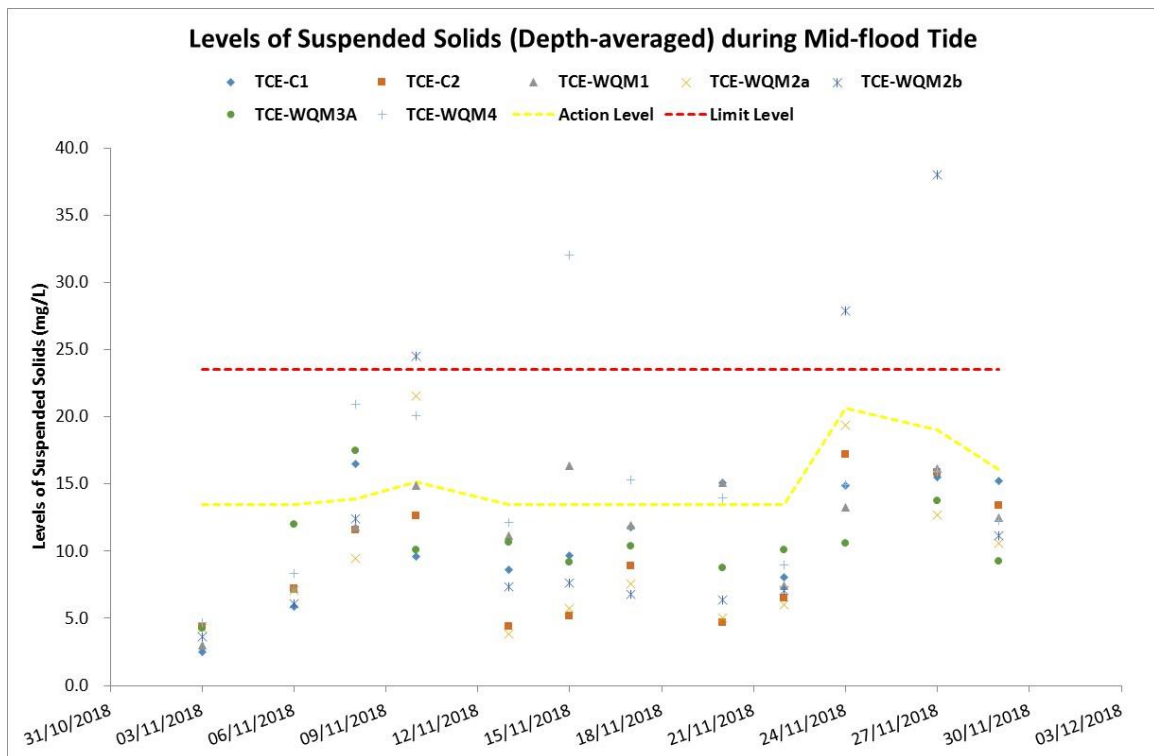


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 November 2018

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: November 2018

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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)
01-11-2018	Mid-Ebb	TCE-C1	Fine	Rough	5:55	8.3	Surface	1.0	1	24.3	8.2	30.8	6.7	94.6	4.6	3.3	6.7	5.5	2.8
								2	24.3	8.2	30.8	6.7	94.6	4.5	3.4				
							Middle	4.2	1	24.3	8.2	30.8	6.6	94.2	4.9	2.4			
								2	24.3	8.2	30.8	6.6	94.2	4.9	2.2				
							Bottom	7.3	1	24.3	8.2	30.8	6.6	93.7	7.2	2.9			
								2	24.3	8.2	30.8	6.6	93.7	6.9	2.4				
		TCE-C2	Fine	Rough	6:12	12.4	Surface	1.0	1	24.7	8.1	30.6	6.6	94.9	0.8	3.0	6.4	1.5	4.2
								2	24.7	8.1	30.6	6.6	95.1	0.8	2.6				
							Middle	6.2	1	25.2	8.0	31.2	6.2	90.0	1.9	4.5			
								2	25.2	8.0	31.2	6.2	90.1	1.8	3.8				
							Bottom	11.4	1	25.4	8.0	31.5	6.2	89.9	1.8	5.9			
								2	25.4	8.0	31.5	6.2	89.9	1.9	5.2				
		TCE-WQM1	Fine	Moderate	7:32	6.8	Surface	1.0	1	24.1	8.1	29.9	7.2	101.8	2.2	2.9	7.1	5.0	4.6
								2	24.1	8.1	29.9	7.2	102.0	2.2	2.9				
							Middle	3.4	1	24.4	8.1	30.3	7.0	98.9	6.1	3.5			
								2	24.3	8.1	30.3	7.0	99.1	5.7	3.2				
							Bottom	5.8	1	24.5	8.2	30.7	6.9	98.5	7.2	7.7			
								2	24.5	8.2	30.6	6.9	98.5	6.7	7.5				
		TCE-WQM2a	Fine	Rough	6:52	7.6	Surface	1.0	1	24.4	8.2	29.8	7.2	101.4	1.5	5.0	7.0	1.9	4.0
								2	24.4	8.2	29.8	7.2	101.4	1.5	4.7				
							Middle	3.8	1	24.7	8.2	30.3	6.7	96.5	2.2	4.3			
								2	24.7	8.2	30.2	6.7	96.3	2.3	4.3				
							Bottom	6.6	1	25.1	8.1	31.0	6.4	92.4	2.0	2.6			
								2	25.1	8.1	31.0	6.4	92.3	1.8	2.9				
		TCE-WQM2b	Fine	Rough	6:42	11.5	Surface	1.0	1	24.9	8.0	31.0	6.7	96.1	1.9	1.7	6.6	1.8	2.7
								2	24.9	8.0	31.0	6.7	95.9	1.9	1.9				
							Middle	5.8	1	25.1	8.2	31.0	6.4	92.8	1.6	1.9			
								2	25.1	8.2	31.0	6.4	92.8	1.6	2.7				
							Bottom	10.5	1	25.1	8.2	31.0	6.4	92.5	2.0	3.6			
								2	25.1	8.2	31.0	6.4	92.5	1.9	4.3				
		TCE-WQM3A	Fine	Moderate	7:11	3.4	Surface	1.0	1	24.5	8.2	29.7	7.1	100.4	2.4	2.3	7.1	4.3	2.9
								2	24.5	8.2	29.7	7.1	100.4	2.4	1.9				
							Middle	2.4	1	24.5	8.2	29.7	7.1	101.3	6.4	3.6			
								2	24.5	8.2	29.7	7.1	101.2	6.0	3.7				
							Bottom	1.0	1	24.3	8.2	29.9	7.3	103.3	4.0	3.1			
								2	24.3	8.2	29.9	7.3	103.2	4.0	3.5				
		TCE-WQM4	Fine	Moderate	7:20	3.3	Surface	1.0	1	24.3	8.2	29.9	7.3	104.0	3.9	1.8	7.3	3.9	2.5
								2	24.3	8.1	29.9	7.3	104.0	3.9	1.8				
							Middle	2.3	1	24.3	8.1	29.9	7.3	104.0	3.9	1.8			
								2	24.3	8.1	29.9	7.3	103.9	3.8	1.5				
							Bottom	1.0	1	24.3	8.2	29.9	7.3	103.3	4.0	3.1			
								2	24.3	8.2	29.9	7.3	103.2	4.0	3.5				

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Depth-averaged	
																DO (mg/L)	Turbidity (NTU)
03-11-2018	Mid-Ebb	TCE-C1	Cloudy	Moderate	8:58	8.4	Surface	1.0	1	24.2	8.2	31.5	7.0	100.5	3.1	7.1	2.6
									2	24.2	8.2	31.5	7.1	100.7	4.6		
							Middle	4.2	1	24.2	8.2	31.5	7.1	101.0	2.3		
									2	24.2	8.2	31.5	7.1	100.9	2.8		
				1	24.2	8.2	31.5	7.3	103.8	1.2	7.3						
				2	24.2	8.2	31.5	7.2	103.0	1.5							
				1	24.0	8.2	32.1	7.2	102.5	2.3	7.1	3.2					
				2	24.0	8.2	32.1	7.2	102.6	3.4							
		Middle	7.3	1	24.2	8.2	32.3	6.9	99.2	3.4							
				2	24.2	8.2	32.3	6.9	99.4	4.1							
				1	24.5	8.2	32.9	6.8	98.0	2.4	6.8						
				2	24.5	8.2	32.9	6.8	97.9	3.3							
	TCE-WQM1	Cloudy	Calm	10:52	8.3	Surface	1.0	1	23.6	8.2	31.3	7.1	100.5	1.0	7.0	1.5	
							2	23.6	8.2	31.3	7.2	100.8	1.7				
	Middle					4.2	1	23.6	8.2	32.0	6.9	98.1	1.3				
							2	23.6	8.2	32.0	6.9	98.1	2.0				
			1	23.5	8.2	32.4	6.9	97.9	1.8	6.9							
			2	23.5	8.2	32.4	6.9	97.8	1.4								
	TCE-WQM2a	Cloudy	Moderate	10:19	7.0	Surface	1.0	1	24.1	8.2	31.7	7.1	101.3	2.9	7.1	3.2	
							2	24.1	8.2	31.7	7.1	101.5	2.7				
	Middle					3.5	1	24.3	8.2	32.0	7.0	99.8	2.3				
							2	24.3	8.2	32.0	7.0	100.1	2.6				
			1	24.5	8.2	32.6	6.8	97.5	4.4	6.8							
			2	24.5	8.2	32.5	6.8	97.5	4.1								
	TCE-WQM2b	Cloudy	Moderate	10:09	9.4	Surface	1.0	1	24.1	8.2	31.7	7.1	101.3	3.0	7.0	2.4	
							2	24.1	8.2	31.7	7.1	101.6	2.6				
	Middle					4.7	1	24.3	8.2	32.2	6.9	99.0	2.1				
							2	24.3	8.2	32.1	6.9	99.1	2.5				
			1	24.5	8.2	32.5	6.9	99.9	1.7	6.9							
			2	24.5	8.2	32.6	6.9	99.5	2.2								
	TCE-WQM3A	Cloudy	Calm	10:51	4.2	Surface	1.0	1	24.0	8.2	31.0	7.3	102.9	3.1	7.3	4.5	
							2	24.0	8.2	31.0	7.3	102.9	3.6				
	Bottom					3.2	1	24.0	8.2	31.4	7.2	102.4	5.3				
							2	24.0	8.2	31.4	7.2	102.4	5.9				
	TCE-WQM4	Cloudy	Calm	10:41	3.9	Surface	1.0	1	23.6	8.2	31.5	7.1	100.1	1.7	7.1	2.2	
							2	23.6	8.2	31.4	7.1	100.3	2.6				
	Bottom					2.9	1	23.6	8.2	31.9	7.0	99.0	2.9				
							2	23.6	8.2	31.9	7.0	98.9	1.6				
	Mid-Flood	TCE-C1	Cloudy	Moderate	15:24	7.6	Surface	1.0	1	24.0	8.2	31.8	7.9	112.4	1.8	7.6	2.5
									2	24.0	8.2	31.8	7.9	112.6	2.0		
							Middle	3.8	1	24.2	8.2	32.3	7.3	104.5	2.1		
									2	24.2	8.2	32.3	7.3	104.5	2.6		
					1	24.2	8.2	32.3	7.3	104.3	3.7	7.3					
					2	24.2	8.2	32.3	7.3	104.3	2.7						
					1	24.5	8.2	32.9	6.9	99.9	5.0	6.9	4.4				
					2	24.5	8.2	32.9	6.9	99.9	4.5						
			Middle	7.4	1	24.5	8.2	32.9	6.9	99.3	4.3						
					2	24.5	8.2	32.9	6.9	99.3	4.6						
					1	24.5	8.2	32.9	6.9	99.3	3.9	6.9					
					2	24.5	8.2	32.9	6.9	99.2	4.0						
TCE-WQM1		Cloudy	Calm	14:45	8.3	Surface	1.0	1	24.0	8.2	31.4	8.0	113.2	3.0	7.9	3.0	
							2	24.0	8.2	31.4	8.0	113.4	2.6				
Middle						4.2	1	23.8	8.2	31.5	7.8	110.1	2.4				
							2	23.8	8.2	31.5	7.8	110.2	3.1				
			1	23.6	8.2	31.6	7.4	104.5	3.4	7.4							
			2	23.6	8.2	31.6	7.4	104.4	3.5								
TCE-WQM2a		Cloudy	Moderate	15:57	7.0	Surface	1.0	1	24.2	8.2	32.5	7.3	105.0	2.6	7.3	4.3	
							2	24.3	8.2	32.5	7.3	105.0	2.9				
Middle						3.5	1	24.3	8.2	32.5	7.2	103.9	2.7				
							2	24.3	8.2	32.5	7.2	104.0	3.2				
			1	24.3	8.2	32.5	7.2	103.5	6.9	7.2							
			2	24.3	8.2	32.5	7.2	103.5	7.3								
TCE-WQM2b		Cloudy	Moderate	15:46	8.6	Surface	1.0	1	24.0	8.2	31.3	7.3	104.3	4.0	7.3	3.7	
							2	24.0	8.2	31.3	7.4	104.5	3.6				
Middle						4.3	1	24.0	8.1	31.4	7.3	104.1	3.8				
							2	24.0	8.1	31.3	7.3	104.2	3.3				
			1	24.0	8.2	31.4	7.4	105.1	3.8	7.4							
			2	24.0	8.2	31.4	7.4	105.1	3.4								
TCE-WQM3A		Cloudy	Calm	15:12	4.7	Surface	1.0	1	24.1	8.2	31.7	7.6	108.0	4.3	7.6	4.3	
							2	24.1	8.2	31.7	7.6	108.2	3.2				
Bottom						3.7	1	24.3	8.2	32.1	7.2	104.0	4.5				
							2	24.3	8.2	32.1	7.3	104.1	5.0				
TCE-WQM4		Cloudy	Calm	15:01	4.4	Surface	1.0	1	24.1	8.2	31.7	7.4	105.2	5.0	7.4	4.7	
							2	24.1	8.2	31.7	7.4	105.1	5.1				
Bottom						3.4	1	24.2	8.2	31.8	7.3	104.2	3.8				
							2	24.2	8.2	31.8	7.3	103.9	4.8				







Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged					
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)			
10-11-2018	Mid-Ebb	TCE-C1	Cloudy	Moderate	14:13	8.9	Surface	1	1	24.8	8.3	31.2	7.3	104.9	12.2	8.7	7.2	17.1	11.1			
							Middle	4.45	1	24.8	8.3	32.3	7.0	100.8	19.1	11.8						
							Bottom	7.9	1	24.7	8.3	32.5	6.9	100.4	20.7	13.4						
		TCE-C2	Cloudy	Moderate	14:13	12.1	12.1	12.1	Surface	1	1	24.9	8.2	30.5	6.6	94.3	5.9	10.0	6.6	5.8	9.2	
									Middle	6.05	1	24.9	8.2	30.7	6.4	92.2	5.6	8.9				
									Bottom	11.1	1	24.9	8.2	30.8	6.4	91.7	5.9	7.5				
		TCE-WQM1	Cloudy	Moderate	13:00	8.9	8.9	8.9	Surface	1	1	24.7	8.2	30.1	6.6	94.1	8.7	14.0	6.6	9.2	15.2	
									Middle	4.45	1	24.7	8.2	30.1	6.6	93.9	9.5	14.4				
									Bottom	7.9	1	24.7	8.2	30.1	6.6	93.9	9.4	15.4				
		TCE-WQM2a	Cloudy	Moderate	13:34	7.6	7.6	7.6	Surface	1	1	24.9	8.2	29.8	6.8	97.7	11.1	20.3	6.8	10.9	20.3	
									Middle	3.8	1	24.9	8.2	29.9	6.7	95.2	10.3	20.6				
									Bottom	6.6	1	24.8	8.2	29.9	6.7	95.4	10.4	20.7				
	TCE-WQM2b	Cloudy	Moderate	13:48	10.8	10.8	10.8	Surface	1	1	24.9	8.2	30.3	6.4	92.0	8.1	10.9	6.7	8.7	12.7		
								Middle	5.4	1	24.9	8.2	30.7	6.3	90.6	9.3	12.0					
								Bottom	9.8	1	24.9	8.2	30.7	6.4	92.0	8.8	16.0					
	TCE-WQM3A	Cloudy	Moderate	13:23	4.5	4.5	4.5	Surface	1	1	24.8	8.2	29.9	7.0	99.6	8.8	10.1	7.0	8.9	12.0		
								Middle	3.5	1	24.8	8.2	29.9	6.9	99.3	8.9	13.5					
								Bottom	2	2	24.8	8.2	29.9	7.0	99.3	8.8	13.3					
	TCE-WQM4	Cloudy	Moderate	13:12	3.5	3.5	3.5	Surface	1	1	24.8	8.2	30.0	7.0	100.1	11.6	19.0	7.0	12.1	19.8		
								Middle	2.5	1	24.8	8.2	30.0	6.9	99.1	12.5	20.8					
								Bottom	1	1	24.8	8.2	30.0	6.9	99.2	12.5	20.8					
	Mid-Flood	Mid-Flood	TCE-C1	Cloudy	Moderate	9:14	8.3	8.3	Surface	1	1	24.7	8.2	30.6	7.1	101.8	14.6	9.5	7.0	16.8	9.6	
									Middle	4.15	1	24.7	8.2	31.8	6.9	99.8	15.6	10.4				
									Bottom	7.3	1	24.7	8.2	32.1	6.9	99.8	20.1	9.4				
			TCE-C2	Cloudy	Moderate	9:26	12.3	12.3	12.3	Surface	1	1	24.8	8.2	30.5	6.4	92.2	7.9	9.6	6.9	8.8	12.7
										Middle	6.15	1	24.9	8.2	30.8	6.3	90.7	8.8	13.3			
										Bottom	11.3	1	24.9	8.2	30.8	6.3	90.7	9.8	15.4			
			TCE-WQM1	Cloudy	Moderate	10:57	8.6	8.6	8.6	Surface	1	1	24.7	8.2	30.2	6.6	94.4	9.0	15.0	6.3	9.0	14.9
										Middle	4.3	1	24.7	8.2	30.2	6.6	94.3	8.8	15.0			
										Bottom	7.6	1	24.7	8.2	30.2	6.6	93.9	9.0	15.8			
			TCE-WQM2a	Cloudy	Moderate	10:25	7.2	7.2	7.2	Surface	1	1	24.8	8.2	29.9	6.8	96.4	10.1	23.6	6.6	10.0	21.5
										Middle	3.6	1	24.8	8.2	29.9	6.7	96.2	9.7	22.5			
										Bottom	6.2	1	24.8	8.2	29.9	6.7	96.2	9.7	23.0			
		TCE-WQM2b	Cloudy	Moderate	9:49	10.2	10.2	10.2	Surface	1	1	24.8	8.2	29.9	6.6	94.6	16.4	25.5	6.7	16.2	24.5	
									Middle	5.1	1	24.8	8.2	29.9	6.6	94.2	16.6	23.9				
									Bottom	9.2	1	24.8	8.2	29.9	6.6	94.2	16.8	24.0				
		TCE-WQM3A	Cloudy	Moderate	10:36	4.3	4.3	4.3	Surface	1	1	24.8	8.2	29.9	6.6	94.3	16.0	24.9	6.6	9.3	10.1	
									Middle	3.3	1	24.7	8.2	29.9	6.8	96.6	9.1	10.2				
									Bottom	2.3	1	24.7	8.2	29.9	6.7	95.1	9.5	10.9				
		TCE-WQM4	Cloudy	Moderate	10:46	3.3	3.3	3.3	Surface	1	1	24.7	8.2	29.9	6.8	97.0	12.7	23.7	6.7	12.7	20.1	
									Middle	2.3	1	24.7	8.2	29.9	6.7	96.1	12.6	17.9				
									Bottom	2.3	1	24.7	8.2	29.9	6.7	96.1	12.6	17.9				

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)
13-11-2018	Mid-Ebb	TCE-C1	Fine	Moderate	4:21	7.5	Surface	1.0	1	24.8	8.2	29.8	6.6	94.7	12.4	4.2	6.6	12.8	5.2
									2	24.8	8.2	29.8	6.6	94.6	12.2	3.5			
							Middle	3.8	1	24.8	8.2	30.1	6.6	95.0	13.1	5.9			
									2	24.8	8.2	30.0	6.6	95.0	13.4	6.0			
							Bottom	6.5	1	24.8	8.2	30.1	6.6	94.9	13.0	5.7			
									2	24.8	8.2	30.1	6.6	94.9	12.8	6.0			
		TCE-C2	Fine	Calm	3:00	11.2	Surface	1.0	1	24.9	8.0	29.2	6.6	94.7	8.6	3.3	6.6	9.0	4.1
									2	24.9	8.0	29.1	6.6	94.7	8.6	4.0			
							Middle	5.6	1	24.9	8.0	29.2	6.6	94.8	9.2	4.4			
									2	24.9	8.0	29.2	6.6	94.8	9.1	4.2			
							Bottom	10.2	1	24.9	8.0	29.3	6.6	94.8	9.2	3.7			
									2	24.9	8.0	29.3	6.6	94.8	9.1	4.7			
		TCE-WQM1	Fine	Calm	4:21	8.3	Surface	1.0	1	24.8	8.2	29.8	6.6	94.7	11.5	8.0	6.6	12.1	8.7
									2	24.8	8.2	29.7	6.6	94.5	11.4	8.6			
							Middle	4.2	1	24.8	8.2	30.3	6.6	95.2	12.8	9.2			
									2	24.8	8.2	30.2	6.6	95.2	12.7	8.2			
							Bottom	7.3	1	24.7	8.2	30.3	6.7	96.0	12.0	9.1			
									2	24.8	8.2	30.3	6.7	95.8	12.1	9.0			
		TCE-WQM2a	Fine	Calm	3:50	6.3	Surface	1.0	1	24.8	8.2	29.3	6.8	96.6	8.9	4.2	6.8	9.3	4.1
									2	24.8	8.2	29.3	6.8	96.6	8.8	3.7			
							Middle	3.2	1	24.8	8.2	29.5	6.7	95.7	8.6	3.7			
									2	24.8	8.2	29.4	6.7	96.0	10.1	3.8			
							Bottom	5.3	1	24.8	8.2	29.5	6.7	95.9	10.5	4.4			
									2	24.8	8.2	29.9	6.7	95.7	10.3	4.5			
	TCE-WQM2b	Fine	Calm	3:37	10.0	Surface	1.0	1	24.9	8.1	29.0	6.6	93.4	11.8	7.7	6.6	12.4	8.2	
								2	24.9	8.1	29.0	6.6	93.4	11.6	7.6				
						Middle	5.0	1	24.9	8.1	29.0	6.6	93.6	12.8	8.4				
								2	24.9	8.1	29.0	6.6	93.5	12.9	8.7				
						Bottom	9.0	1	24.9	8.2	29.0	6.6	94.5	12.5	8.6				
								2	24.9	8.1	29.0	6.6	94.1	12.5	8.3				
	TCE-WQM3A	Fine	Calm	4:01	3.4	Surface	1.0	1	24.8	8.2	30.2	6.7	96.4	8.6	3.4	6.7	9.5	3.4	
								2	24.9	8.2	30.1	6.7	96.1	8.3	3.5				
						Middle	2.4	1	24.4	8.2	30.4	6.8	96.3	10.1	3.1				
								2	24.5	8.2	30.4	6.8	96.4	10.8	3.4				
						Bottom	1.0	1	24.8	8.2	29.9	6.7	95.7	10.3	4.5				
								2	24.8	8.2	29.9	6.7	95.6	13.3	4.7				
	TCE-WQM4	Fine	Calm	4:09	3.5	Surface	1.0	1	24.8	8.2	30.2	6.7	95.6	13.3	4.7	6.7	12.5	3.8	
								2	24.8	8.2	30.2	6.7	95.5	13.1	4.9				
						Middle	2.5	1	24.3	8.2	30.5	6.8	96.1	11.8	2.7				
								2	24.7	8.2	30.3	6.8	96.5	11.7	2.8				
						Bottom	1.0	1	24.8	8.2	30.0	6.7	95.2	16.5	6.7				
								2	24.8	8.2	29.9	6.7	95.1	15.7	7.0				
	Mid-Flood	TCE-C1	Sunny	Moderate	11:56	7.5	Surface	1.0	1	24.8	8.2	30.0	6.7	95.2	16.5	6.7	6.7	17.7	8.7
									2	24.8	8.2	29.9	6.7	95.1	15.7	7.0			
							Middle	3.8	1	24.8	8.2	30.2	6.7	95.8	19.2	8.9			
									2	24.8	8.2	30.2	6.7	95.7	18.5	8.7			
							Bottom	6.5	1	24.8	8.2	30.3	6.7	96.3	18.1	9.9			
									2	24.8	8.2	30.3	6.7	96.2	18.2	10.7			
TCE-C2			Sunny	Calm	11:09	11.1	Surface	1.0	1	25.0	8.2	29.8	6.5	93.5	8.4	4.6	6.5	9.9	4.4
									2	25.0	8.2	29.8	6.5	93.5	8.4	4.2			
							Middle	5.6	1	25.0	8.2	30.1	6.5	92.8	9.7	4.3			
									2	25.0	8.2	30.1	6.5	92.8	9.0	4.9			
							Bottom	10.1	1	25.0	8.2	30.2	6.6	94.3	11.9	3.7			
									2	24.9	8.2	30.3	6.5	93.7	12.1	4.7			
TCE-WQM1		Sunny	Calm	10:01	8.1	Surface	1.0	1	24.8	8.2	30.0	6.7	95.6	14.9	10.6	6.7	16.8	11.1	
								2	24.8	8.2	29.9	6.7	95.5	14.1	10.6				
						Middle	4.1	1	24.8	8.2	30.2	6.7	96.1	17.8	9.5				
								2	24.8	8.2	30.2	6.7	96.0	17.3	10.7				
						Bottom	7.1	1	24.7	8.2	30.2	6.8	96.8	18.2	13.3				
								2	24.7	8.2	30.2	6.8	96.7	18.4	12.3				
TCE-WQM2a		Sunny	Calm	10:31	6.1	Surface	1.0	1	25.0	8.2	29.0	6.8	96.9	9.2	5.0	6.8	11.2	3.9	
								2	25.0	8.2	28.9	6.8	97.1	8.8	4.1				
						Middle	3.1	1	24.9	8.2	29.4	6.8	96.5	11.7	4.2				
								2	24.9	8.2	29.3	6.7	96.3	11.4	4.3				
						Bottom	5.1	1	24.9	8.2	29.5	6.8	97.5	13.1	3.0				
								2	24.9	8.2	29.5	6.8	97.2	12.9	2.6				
TCE-WQM2b	Sunny	Calm	10:41	9.9	Surface	1.0	1	25.0	8.2	29.3	6.7	95.4	10.9	7.8	6.7	11.9	7.4		
							2	25.0	8.2	29.3	6.7	95.5	11.1	8.3					
					Middle	5.0	1	25.0	8.2	29.3	6.6	95.0	12.4	7.4					
							2	25.0	8.2	29.3	6.7	95.0	11.9	8.2					
					Bottom	8.9	1	25.0	8.2	29.3	6.7	95.6	12.5	6.3					
							2	25.0	8.2	29.3	6.7	95.4	12.8	6.3					
TCE-WQM3A	Sunny	Calm	10:20	3.1	Surface	1.0	1	25.0	8.2	29.8	6.7	95.6	11.9	9.4	6.7	11.8	10.6		
							2	25.0	8.2	29.7	6.7	95.4	11.8	9.5					
					Middle	2.1	1	24.9	8.2	29.8	6.8	96.8	11.7	11.9					
							2	24.9	8.2	29.8	6.8	96.6	11.7	11.7					
					Bottom	1.4	1	24.8	8.2	29.9	6.8	97.7	16.5	12.6					
							2	24.9	8.2	29.9	6.8	97.7	16.7	11.6					

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)
15-11-2018	Mid-Ebb	TCE-C1	Cloudy	Moderate	4:51	8.7	Surface	1.0	1	24.7	8.0	29.9	6.6	93.8	9.3	8.2	6.6	14.7	13.0
							2	24.7	8.0	29.9	6.6	93.8	9.2	9.0					
							Middle	4.4	1	24.7	8.0	30.5	6.5	92.4	18.3	9.2			
							2	24.7	8.0	30.5	6.5	92.5	18.0	9.5					
							Bottom	7.7	1	24.7	8.0	30.6	6.5	92.8	16.4	21.2			
							2	24.7	8.0	30.6	6.5	92.9	17.1	20.7					
		TCE-C2	Cloudy	Moderate	3:45	15.4	Surface	1.0	1	24.4	8.1	30.4	6.6	93.7	4.2	3.7	6.5	5.1	3.7
							2	24.4	8.1	30.4	6.6	93.8	4.2	4.7					
							Middle	7.7	1	24.3	8.1	30.5	6.4	90.3	5.3	3.3			
							2	24.3	8.1	30.5	6.4	90.5	5.3	3.5					
							Bottom	14.4	1	24.4	8.1	31.2	6.1	87.3	5.8	3.8			
							2	24.4	8.1	31.2	6.1	87.1	5.9	3.3					
		TCE-WQM1	Cloudy	Calm	4:58	8.5	Surface	1.0	1	24.1	8.1	30.1	6.4	90.9	13.1	16.2	6.1	13.7	17.2
							2	24.1	8.1	30.1	6.4	91.0	13.1	17.7					
							Middle	4.3	1	24.1	8.1	30.1	6.5	91.3	14.0	16.5			
							2	24.1	8.1	30.1	6.5	91.2	13.9	17.1					
							Bottom	7.5	1	24.1	8.1	30.4	6.5	92.2	14.2	17.6			
							2	24.1	8.1	30.4	6.5	92.1	13.8	17.8					
		TCE-WQM2a	Cloudy	Moderate	4:22	7.0	Surface	1.0	1	24.3	8.1	30.1	6.6	93.6	6.6	6.3	6.6	6.8	6.6
							2	24.3	8.1	30.1	6.6	93.6	6.6	6.2					
							Middle	3.5	1	24.3	8.1	30.1	6.6	93.4	6.8	6.6			
							2	24.3	8.1	30.1	6.6	93.4	6.7	5.7					
							Bottom	6.0	1	24.3	8.1	30.1	6.6	93.5	7.1	7.2			
							2	24.3	8.1	30.1	6.6	93.5	6.9	7.5					
	TCE-WQM2b	Cloudy	Moderate	4:09	11.0	Surface	1.0	1	24.5	8.1	29.7	6.7	94.6	4.5	4.7	6.7	5.1	4.2	
						2	24.5	8.1	29.7	6.7	94.6	4.5	4.3						
						Middle	5.5	1	24.5	8.1	29.9	6.6	93.8	4.9	4.4				
						2	24.5	8.1	29.9	6.6	93.8	4.9	3.8						
						Bottom	10.0	1	24.4	8.1	30.3	6.5	92.9	5.8	4.0				
						2	24.4	8.1	30.3	6.5	92.8	5.8	4.0						
	TCE-WQM3A	Cloudy	Calm	4:34	4.2	Surface	1.0	1	24.2	8.1	29.9	6.6	92.8	11.2	12.8	6.6	14.5	12.3	
						2	24.2	8.1	29.9	6.6	92.8	10.6	12.0						
						Middle	3.2	1	24.2	8.1	30.0	6.5	91.9	17.9	12.3				
						2	24.2	8.1	30.0	6.5	92.0	18.4	11.9						
						Bottom	1.0	1	24.2	8.1	30.1	6.6	93.5	10.6	8.5				
						2	24.2	8.1	30.1	6.6	93.5	10.5	8.6						
	TCE-WQM4	Cloudy	Calm	4:46	3.9	Surface	1.0	1	24.2	8.1	30.1	6.6	93.5	10.6	8.5	6.6	11.0	9.0	
						2	24.2	8.1	30.1	6.6	93.5	10.5	8.6						
						Middle	2.9	1	24.2	8.1	30.1	6.6	93.7	11.4	9.6				
						2	24.2	8.1	30.1	6.6	93.6	11.5	9.2						
						Bottom	1.0	1	24.8	8.0	30.3	6.6	94.0	9.4	9.3				
						2	24.8	8.0	30.3	6.6	94.1	9.1	10.6						
	Mid-Flood	TCE-C1	Cloudy	Moderate	17:37	8.8	Surface	1.0	1	24.8	8.0	30.3	6.6	93.7	13.8	12.4	6.6	15.3	9.7
							2	24.8	8.0	30.6	6.5	93.7	13.5	12.7					
							Middle	4.4	1	24.8	8.0	30.6	6.5	93.7	13.8	12.4			
							2	24.8	8.0	30.6	6.5	93.7	13.5	12.7					
							Bottom	7.8	1	24.8	8.0	30.9	6.5	93.5	23.0	6.7			
							2	24.8	8.0	30.9	6.5	93.5	22.8	6.2					
TCE-C2			Cloudy	Moderate	17:31	14.7	Surface	1.0	1	24.3	8.1	31.3	6.2	89.1	4.4	5.6	6.2	4.9	5.2
							2	24.3	8.1	31.3	6.2	89.2	4.4	4.6					
							Middle	7.4	1	24.4	8.1	31.6	6.1	87.9	4.6	4.6			
							2	24.4	8.1	31.6	6.1	87.9	4.6	4.2					
							Bottom	13.7	1	24.4	8.1	31.7	6.1	87.8	5.7	6.3			
							2	24.4	8.1	31.7	6.1	87.8	5.6	5.9					
TCE-WQM1		Cloudy	Calm	16:12	8.3	Surface	1.0	1	24.1	8.1	30.2	6.6	92.8	13.8	17.0	6.6	13.9	16.3	
						2	24.1	8.1	30.2	6.6	92.8	13.9	16.5						
						Middle	4.2	1	24.1	8.1	30.2	6.5	92.5	13.9	16.8				
						2	24.1	8.1	30.2	6.5	92.5	13.8	16.4						
						Bottom	7.3	1	24.1	8.1	30.3	6.5	92.5	13.8	15.1				
						2	24.1	8.1	30.3	6.5	92.4	13.9	16.1						
TCE-WQM2a		Cloudy	Moderate	16:50	7.0	Surface	1.0	1	24.3	8.1	30.2	6.5	92.1	5.5	4.2	6.5	5.7	5.7	
						2	24.3	8.1	30.2	6.5	92.1	5.5	4.8						
						Middle	3.5	1	24.3	8.1	30.2	6.4	91.2	5.2	5.4				
						2	24.3	8.1	30.2	6.4	91.3	5.2	5.8						
						Bottom	6.0	1	24.4	8.1	30.5	6.4	90.6	6.4	7.2				
						2	24.4	8.1	30.5	6.4	90.6	6.5	6.9						
TCE-WQM2b	Cloudy	Moderate	17:01	12.2	Surface	1.0	1	24.4	8.1	30.2	6.5	92.0	6.4	9.6	6.5	5.8	7.6		
					2	24.4	8.1	30.2	6.5	92.0	6.3	9.1							
					Middle	6.1	1	24.4	8.1	30.3	6.5	92.2	5.8	6.7					
					2	24.4	8.1	30.3	6.5	92.2	5.9	6.8							
					Bottom	11.2	1	24.4	8.1	30.4	6.5	92.7	5.1	6.7					
					2	24.4	8.1	30.4	6.5	92.6	5.1	6.7							
TCE-WQM3A	Cloudy	Calm	16:49	4.7	Surface	1.0	1	24.1	8.1	30.0	6.6	93.8	7.9	9.6	6.6	7.9	9.2		
					2	24.1	8.1	30.0	6.6	93.8	7.9	9.3							
					Middle	3.7	1	24.1	8.1	30.0	6.6	93.7	7.8	9.3					
					2	24.1	8.1	30.0	6.6	93.7	8.0	8.6							
					Bottom	1.0	1	24.1	8.1	30.1	6.6	93.0	13.6	31.4					
					2	24.1	8.1	30.1	6.6	93.0	13.7	30.2							
TCE-WQM4	Cloudy	Calm	16:26	4.4	Surface	1.0	1	24.1	8.1	30.1	6.6	93.0	13.6	31.4	6.6	14.6	32.0		
					2	24.1	8.1	30.1	6.6	93.0	13.7	30.2							
					Middle	3.4	1	24.1	8.1	30.1	6.6	92.9	15.4	33.5					
					2	24.1	8.1	30.1	6.6	92.9	15.7	33.0							
					Bottom	1.0	1	24.1	8.1	30.1	6.6	92.9	15.7	33.5					
					2	24.1	8.1	30.1	6.6	92.9	15.7	33.0							



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)	
20-11-2018	Mid-Ebb	TCE-C1	Fine	Rough	11:04	8.8	Surface	1.0	1	24.3	8.0	31.4	6.6	93.8	4.6	7.4	6.5	7.4	7.2	
							2	24.3	8.0	31.1	6.6	94.4	4.5	7.2						
							Middle	4.4	1	24.4	8.0	32.1	6.4	92.3	7.3	7.8				
							2	24.4	8.0	31.9	6.5	92.6	6.6	7.3						
							Bottom	7.8	1	24.4	8.0	32.3	6.4	92.2	10.6	6.7				
							2	24.4	8.0	31.7	5.9	84.4	7.5	5.7						
		TCE-C2	Cloudy	Moderate	10:02	13.4	Surface	1.0	1	24.6	7.9	30.6	6.2	88.0	6.8	4.9	6.1	7.2	5.1	
		2					24.6	7.9	30.6	6.2	88.1	6.8	5.5							
		Middle					6.7	1	24.6	7.9	31.7	5.9	84.2	7.3	5.1					
		2					24.6	7.9	31.6	5.9	84.2	7.3	4.7							
		Bottom					12.4	1	24.6	7.8	31.7	5.9	84.7	7.4	4.9					
		2					24.6	7.8	31.7	5.9	84.4	7.5	5.7							
		TCE-WQM1	Cloudy	Calm	11:14	7.3	Surface	1.0	1	24.5	8.1	29.6	6.4	90.2	7.0	7.5	5.9	6.4	8.8	
		2					24.5	8.1	29.6	6.4	90.2	6.9	7.5							
		Middle					3.7	1	24.5	8.0	29.8	6.4	91.0	8.1	7.2					
		2					24.5	8.0	29.8	6.4	90.8	8.9	6.7							
		Bottom					6.3	1	24.5	8.0	29.9	6.5	92.1	10.9	6.9					
		2					24.5	8.0	29.9	6.5	92.0	10.8	6.3							
		TCE-WQM2a	Cloudy	Moderate	10:41	7.6	Surface	1.0	1	24.5	8.0	29.0	6.4	91.1	9.1	6.5	6.3	9.2	6.5	
		2					24.5	8.0	29.0	6.4	91.2	8.9	6.1							
		Middle					3.8	1	24.6	8.0	29.6	6.1	87.2	9.1	6.2					
		2					24.6	8.0	29.5	6.1	87.3	9.0	6.2							
		Bottom					6.6	1	24.6	8.0	30.7	6.1	86.8	9.1	6.8					
		2					24.6	8.0	30.7	6.1	86.6	10.0	7.1							
	TCE-WQM2b	Cloudy	Moderate	10:29	10.5	Surface	1.0	1	24.5	8.0	29.7	6.4	90.3	7.2	3.6	6.3	7.4	3.6		
	2					24.5	8.0	29.7	6.4	90.4	7.2	3.6								
	Middle					5.3	1	24.6	8.0	29.9	6.2	88.4	7.2	3.7						
	2					24.6	8.0	29.9	6.2	88.4	7.2	3.3								
	Bottom					9.5	1	24.6	8.0	30.1	6.3	89.6	7.8	3.4						
	2					24.6	8.0	30.1	6.3	89.5	7.8	4.2								
	TCE-WQM3A	Cloudy	Calm	10:53	4.0	Surface	1.0	1	24.5	8.0	28.9	6.4	90.0	9.0	5.9	6.4	9.4	6.8		
	2					24.5	8.0	28.9	6.4	89.9	9.0	5.5								
	Middle					3.0	1	24.5	8.0	29.0	6.4	91.2	9.7	7.6						
	2					24.5	8.0	29.0	6.4	91.1	9.7	8.0								
	Bottom					1.0	1	24.5	8.1	29.0	6.4	90.9	8.6	8.2						
	2					24.5	8.1	29.0	6.4	90.9	8.4	8.3								
	TCE-WQM4	Cloudy	Calm	11:02	3.2	Surface	1.0	1	24.5	8.1	29.0	6.4	90.9	8.4	8.3	6.4	9.4	8.5		
	2					24.5	8.1	29.0	6.4	90.8	10.4	8.6								
	Middle					2.2	1	24.5	8.1	29.0	6.4	90.8	10.3	8.7						
	2					24.5	8.1	29.0	6.4	90.8	10.3	8.7								
	Bottom					1.0	1	24.5	7.9	31.3	6.5	93.4	6.5	13.2						
	2					24.5	7.9	31.3	6.5	93.6	6.4	13.8								
	Mid-Flood	Mid-Flood	TCE-C1	Fine	Rough	16:39	8.5	Surface	1.0	1	24.5	7.9	31.3	6.5	93.4	6.5	13.2	6.5	9.5	15.1
								2	24.5	7.9	31.3	6.5	93.6	6.4	13.8					
								Middle	4.3	1	24.4	7.8	31.7	6.4	91.6	8.7	15.8			
								2	24.4	7.8	31.6	6.4	91.9	8.7	16.6					
								Bottom	7.5	1	24.4	7.9	32.0	6.3	91.1	13.3	15.1			
								2	24.4	7.9	32.0	6.3	91.0	13.3	16.0					
TCE-C2			Cloudy	Moderate	16:33	13.6	Surface	1.0	1	24.6	8.1	30.5	6.2	88.0	7.9	4.2	6.2	10.0	4.7	
2							24.6	8.1	30.5	6.2	88.2	7.9	4.7							
Middle							6.8	1	24.6	8.1	31.0	6.1	87.6	10.2	4.4					
2							24.6	8.1	31.0	6.1	87.4	10.1	4.6							
Bottom							12.6	1	24.6	8.0	31.0	6.2	88.5	12.1	4.6					
2							24.6	8.0	31.0	6.2	88.3	12.0	5.4							
TCE-WQM1			Cloudy	Calm	15:22	7.5	Surface	1.0	1	24.9	8.0	29.3	6.6	93.4	7.3	14.3	6.6	9.1	15.1	
2							24.9	8.0	29.3	6.6	93.6	7.5	14.6							
Middle							3.8	1	24.9	8.0	29.5	6.5	92.6	8.1	15.0					
2							24.9	8.0	29.5	6.5	92.7	8.3	14.3							
Bottom							6.5	1	24.8	8.0	29.5	6.5	92.6	11.8	16.3					
2							24.8	8.0	29.5	6.5	92.6	11.6	16.2							
TCE-WQM2a			Cloudy	Moderate	15:55	7.3	Surface	1.0	1	24.7	8.1	29.6	6.5	92.0	8.7	5.5	6.5	9.7	5.0	
2							24.7	8.1	29.6	6.5	92.0	8.4	5.5							
Middle							3.7	1	24.7	8.1	29.6	6.5	92.2	10.0	4.4					
2							24.7	8.1	29.6	6.5	92.2	9.9	4.7							
Bottom							6.3	1	24.7	8.1	29.6	6.5	92.5	10.6	5.3					
2							24.7	8.1	29.6	6.5	92.4	10.6	4.6							
TCE-WQM2b		Cloudy	Moderate	16:06	10.7	Surface	1.0	1	24.7	8.1	29.8	6.4	91.7	9.9	6.4	6.4	10.9	6.4		
2						24.7	8.1	29.7	6.4	91.8	9.6	6.3								
Middle						5.4	1	24.7	8.1	30.0	6.4	91.7	10.5	6.9						
2						24.7	8.1	30.0	6.4	91.6	10.5	6.3								
Bottom						9.7	1	24.7	8.1	30.0	6.5	92.2	12.3	6.2						
2						24.7	8.1	30.0	6.5	92.1	12.5	6.0								
TCE-WQM3A		Cloudy	Calm	15:43	3.5	Surface	1.0	1	24.8	8.1	29.2	6.2	88.5	8.8	8.3	6.2	10.2	8.8		
2						24.8	8.1	29.2	6.2	88.5	8.8	8.4								
Middle						2.5	1	24.8	8.1	29.3	6.3	89.5	11.5	8.9						
2						24.8	8.1	29.3	6.3	89.5	11.5	9.4								
Bottom						1.0	1	24.8	8.1	29.2	6.7	95.5	9.2	13.6						
2						24.8	8.1	29.2	6.7	95.5	9.1	13.5								
TCE-WQM4		Cloudy	Calm	15:33	3.3	Surface	1.0	1	24.8	8.1	29.2	6.7	95.5	9.2	13.6	6.7	10.8	14.0		
2						24.8	8.1	29.2	6.7	95.5	9.1	13.5								
Middle						2.3	1	24.8	8.1	29.2	6.8	96.7	12.5	14.6						
2						24.8	8.1	29.2	6.8	96.5	12.5	14.1								

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)	
22-11-2018	Mid-Ebb	TCE-C1	Sunny	Rough	13:00	7.5	Surface	1.0	1	24.3	8.2	30.0	6.6	93.5	6.5	11.7	6.6	7.0	10.6	
							Middle	3.8	1	24.2	8.1	30.1	6.6	93.3	7.4	9.9				
							Bottom	6.5	2	24.3	8.1	30.1	6.6	93.5	7.2	10.3				
		TCE-C2	Sunny	Rough	11:12	11.6	11.6	Surface	1.0	1	24.3	8.1	30.6	6.3	89.8	4.7	13.2	6.3	4.7	11.2
								Middle	5.8	1	24.4	8.0	31.0	6.4	90.9	4.8	10.0			
								Bottom	10.6	2	24.4	8.0	31.0	6.5	93.4	4.8	10.0			
		TCE-WQM1	Cloudy	Moderate	13:00	8.5	8.5	Surface	1.0	1	24.3	8.1	29.9	6.6	94.0	6.4	9.8	6.5	8.4	9.6
								Middle	4.3	1	24.2	8.2	30.3	6.6	94.0	8.3	10.8			
								Bottom	7.5	2	24.1	8.2	30.4	6.7	94.3	10.2	9.1			
		TCE-WQM2a	Sunny	Rough	12:30	7.0	7.0	Surface	1.0	1	24.4	8.2	29.8	6.5	92.9	5.6	10.1	6.6	5.3	11.1
								Middle	3.5	1	24.5	8.2	29.9	6.6	93.4	5.1	10.7			
								Bottom	6.0	1	24.4	8.2	29.9	6.6	93.2	5.1	11.7			
	TCE-WQM2b	Sunny	Rough	11:42	10.0	10.0	Surface	1.0	1	24.4	8.2	29.7	6.4	91.4	7.1	7.7	6.6	7.0	8.1	
							Middle	5.0	1	24.4	8.1	30.5	6.2	87.7	7.2	7.3				
							Bottom	9.0	1	24.4	8.1	30.6	6.2	88.9	6.5	7.0				
	TCE-WQM3A	Cloudy	Moderate	12:40	3.3	3.3	Surface	1.0	1	24.3	8.2	29.3	6.8	96.3	6.1	11.0	6.8	6.1	10.5	
							Middle	2.3	1	24.3	8.2	29.3	6.9	97.5	6.1	10.1				
							Bottom	2.3	2	24.3	8.2	29.3	6.9	97.1	6.0	9.5				
	TCE-WQM4	Cloudy	Moderate	12:49	3.4	3.4	Surface	1.0	1	24.2	8.2	29.4	7.0	98.7	6.5	9.5	7.0	6.4	9.9	
							Middle	2.4	2	24.2	8.2	29.4	7.2	101.3	6.4	9.2				
							Bottom	2.4	2	24.2	8.2	29.4	7.1	100.2	6.5	10.2				
	Mid-Flood	TCE-C1	Fine	Moderate	17:12	7.5	Surface	1.0	1	24.3	8.1	29.7	6.6	94.0	5.1	10.0	6.6	6.5	8.1	
							Middle	3.8	1	24.2	8.1	30.1	6.6	93.4	6.6	8.2				
							Bottom	6.5	1	24.2	8.1	30.0	6.6	93.4	6.3	7.9				
TCE-C2			Fine	Moderate	17:17	11.4	11.4	Surface	1.0	1	24.2	8.1	30.3	6.6	93.3	7.9	7.1	6.6	5.2	6.5
								Middle	5.7	1	24.3	8.2	30.5	6.5	93.0	5.2	7.1			
								Bottom	10.4	1	24.3	8.2	30.5	6.7	95.8	5.5	7.8			
TCE-WQM1			Fine	Moderate	16:13	8.2	8.2	Surface	1.0	1	24.2	8.1	30.0	6.6	93.2	6.6	6.9	6.6	8.3	7.5
								Middle	4.1	1	24.1	8.1	30.6	6.6	93.2	9.0	7.3			
								Bottom	7.2	1	24.1	8.1	30.7	6.6	93.2	9.4	6.6			
TCE-WQM2a			Fine	Moderate	16:42	6.5	6.5	Surface	1.0	1	24.3	8.1	29.5	6.7	94.0	8.9	7.5	6.7	8.8	6.0
								Middle	3.3	1	24.2	8.2	29.6	6.7	95.1	8.8	6.0			
								Bottom	5.5	1	24.2	8.2	29.6	6.7	95.1	8.8	4.7			
TCE-WQM2b		Fine	Moderate	16:54	10.0	10.0	Surface	1.0	1	24.2	8.2	29.4	6.8	96.0	5.4	7.4	6.8	6.9	7.1	
							Middle	5.0	1	24.2	8.2	29.6	6.8	95.8	6.8	7.1				
							Bottom	9.0	1	24.2	8.2	29.6	6.8	95.7	6.6	7.2				
TCE-WQM3A		Fine	Moderate	16:31	3.2	3.2	Surface	1.0	1	24.2	8.2	29.8	6.9	97.1	8.6	7.3	6.9	8.1	10.1	
							Middle	2.2	2	24.2	8.2	29.4	7.3	103.0	8.3	10.4				
							Bottom	2.2	1	24.2	8.2	29.4	7.1	99.8	5.6	10.1				
TCE-WQM4		Fine	Moderate	16:22	3.2	3.2	Surface	1.0	1	24.2	8.2	29.4	7.0	98.8	5.6	9.8	7.0	5.6	9.0	
							Middle	2.2	2	24.2	8.2	29.4	7.1	99.8	5.6	8.3				
							Bottom	2.2	2	24.2	8.2	29.4	7.1	99.8	5.6	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)	
24-11-2018	Mid-Ebb	TCE-C1	Fine	Rough	13:35	7.9	Surface	1.0	1.0	23.7	8.1	31.0	6.9	97.5	9.8	15.1	6.9	13.1	14.2	
							Middle	4.0	1.0	23.5	8.1	32.1	6.8	95.7	13.6	14.6				
							Bottom	6.9	1.0	23.4	8.1	32.5	6.7	95.2	16.2	14.3				
		TCE-C2	Fine	Moderate	13:02	12.9	Surface	1.0	1.0	23.9	8.1	31.0	6.3	88.5	5.8	12.8	6.3	5.6	14.7	
							Middle	6.5	1.0	24.0	8.1	31.3	6.2	87.6	5.5	15.2				
							Bottom	11.9	1.0	24.0	8.1	31.2	6.3	89.1	5.6	15.8				
		TCE-WQM1	Fine	Calm	11:52	8.1	Surface	1.0	1.0	23.5	8.1	30.4	6.5	90.8	7.7	11.2	6.3	8.1	10.3	
							Middle	4.1	1.0	23.5	8.1	30.4	6.5	90.8	8.2	10.6				
							Bottom	7.1	1.0	23.5	8.1	30.4	6.5	90.8	8.2	9.5				
		TCE-WQM2a	Fine	Moderate	12:24	7.7	Surface	1.0	1.0	23.8	8.2	30.7	6.7	93.9	9.3	14.0	6.7	10.5	14.9	
							Middle	3.9	1.0	23.7	8.2	30.7	6.6	93.5	10.7	15.4				
							Bottom	6.7	1.0	23.7	8.2	30.7	6.7	93.8	11.8	15.6				
	TCE-WQM2b	Cloudy	Moderate	12:38	10.9	Surface	1.0	1.0	23.9	8.1	30.8	6.3	88.7	6.9	10.2	6.2	8.4	11.0		
						Middle	5.5	1.0	24.0	8.1	31.2	6.1	87.0	9.1	9.6					
						Bottom	9.9	1.0	24.0	8.1	31.3	6.2	87.8	9.1	12.5					
	TCE-WQM3A	Fine	Calm	12:14	4.3	Surface	1.0	1.0	23.8	8.1	30.4	6.5	91.1	9.8	8.7	6.5	11.0	11.4		
						Middle	2.0	23.8	8.1	30.4	6.5	91.0	9.7	8.3						
						Bottom	3.3	1.0	23.8	8.1	30.4	6.5	91.3	12.3	14.2					
	TCE-WQM4	Fine	Calm	12:03	3.4	Surface	1.0	1.0	23.9	8.1	30.2	6.7	93.7	6.9	12.7	6.7	7.9	14.2		
						Middle	2.0	23.9	8.1	30.2	6.7	93.7	7.0	12.9						
						Bottom	2.4	1.0	23.8	8.1	30.3	6.7	93.6	8.8	15.5					
	Mid-Flood	TCE-C1	Fine	Rough	8:08	8.1	Surface	1.0	1.0	23.5	8.0	30.6	6.8	95.0	16.5	12.4	6.8	18.0	14.9	
							Middle	4.1	1.0	23.5	8.1	30.5	6.8	95.1	18.5	15.2				
							Bottom	7.1	1.0	23.5	8.1	30.5	6.8	95.1	19.1	16.1				
			TCE-C2	Fine	Moderate	8:44	12.6	Surface	1.0	1.0	23.9	8.1	31.0	6.2	88.0	7.6	14.9	6.2	7.8	17.2
								Middle	6.3	1.0	23.9	8.1	31.2	6.1	86.9	6.6	17.6			
								Bottom	11.6	1.0	23.9	8.0	31.3	6.1	87.0	9.2	18.8			
			TCE-WQM1	Fine	Calm	9:46	7.6	Surface	1.0	1.0	23.5	8.1	30.2	6.5	91.4	6.9	12.5	6.6	7.0	13.3
								Middle	3.8	1.0	23.5	8.1	30.2	6.6	92.5	7.1	12.6			
								Bottom	6.6	1.0	23.5	8.1	30.2	6.7	93.5	7.0	14.4			
			TCE-WQM2a	Fine	Moderate	9:22	7.5	Surface	1.0	1.0	23.6	8.2	30.8	6.6	92.4	9.5	16.1	6.6	10.3	19.4
								Middle	3.8	1.0	23.6	8.2	30.8	6.6	92.6	10.5	20.4			
								Bottom	6.5	1.0	23.6	8.2	30.8	6.6	92.6	10.4	19.0			
		TCE-WQM2b	Fine	Moderate	9:10	10.5	Surface	1.0	1.0	23.7	8.2	30.7	6.5	91.4	16.7	29.1	6.5	15.5	27.9	
							Middle	5.3	1.0	23.7	8.1	30.7	6.5	91.5	12.2	28.5				
							Bottom	9.5	1.0	23.7	8.1	30.7	6.5	91.5	12.1	27.0				
		TCE-WQM3A	Fine	Calm	9:34	4.2	Surface	1.0	1.0	23.6	8.1	30.3	6.5	90.9	6.6	9.0	6.5	6.5	10.6	
							Middle	2.0	23.6	8.1	30.3	6.5	90.8	6.5	9.9					
							Bottom	3.2	1.0	23.7	8.1	30.5	6.6	92.1	6.3	12.5				
		TCE-WQM4	Fine	Calm	9:39	3.1	Surface	1.0	1.0	23.6	8.1	30.6	6.7	94.0	8.5	15.2	6.7	8.3	14.9	
							Middle	2.0	23.6	8.1	30.6	6.7	93.9	8.4	15.1					
							Bottom	2.1	1.0	23.6	8.1	30.6	6.7	94.7	8.1	14.7				

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
27-11-2018	Mid-Ebb	TCE-C1	Rainy	Rough	14:17	7.8	Surface	1.0	1	22.9	8.1	29.0	6.8	93.5	7.1	8.2	6.8	12.2	9.0	
							Middle	3.9	1	23.0	8.1	29.0	6.8	92.9	12.9	7.5				
							Bottom	6.8	1	23.1	8.2	31.1	6.8	94.7	16.8	11.4				
		TCE-C2	Cloudy	Moderate	16:28	12.3	Surface	1.0	1	23.1	8.1	29.9	6.5	89.5	5.5	6.6	6.3	6.1	6.1	
							Middle	6.2	1	23.3	8.1	30.6	6.1	85.3	6.3	5.9				
							Bottom	11.3	1	23.3	8.1	30.6	6.1	85.8	6.4	6.1				
		TCE-WQM1	Rainy	Calm	15:16	8.2	Surface	1.0	1	22.8	8.1	29.9	6.4	88.5	10.3	14.2	6.1	9.8	12.8	
							Middle	4.1	1	22.8	8.1	29.9	6.4	88.1	9.8	11.3				
							Bottom	7.2	1	22.8	8.1	29.9	6.4	88.1	9.8	12.9				
		TCE-WQM2a	Rainy	Moderate	15:50	6.7	Surface	1.0	1	23.0	8.1	29.8	6.5	90.1	11.1	11.0	6.5	14.1	12.4	
							Middle	3.4	1	23.0	8.1	29.9	6.5	89.8	15.7	12.5				
							Bottom	5.7	1	23.0	8.1	29.9	6.5	89.8	16.0	13.5				
		TCE-WQM2b	Rainy	Moderate	16:04	10.4	Surface	1.0	1	23.1	8.1	29.9	6.4	88.9	6.8	7.4	6.5	8.0	7.8	
							Middle	5.2	1	23.1	8.1	29.9	6.4	88.2	8.0	8.4				
							Bottom	9.4	1	23.2	8.1	30.2	6.4	89.2	9.3	8.0				
	TCE-WQM3A	Rainy	Calm	15:40	4.0	Surface	1.0	1	23.0	8.1	29.9	6.4	89.1	5.6	6.6	6.4	6.1	7.5		
						Middle	3.0	1	23.0	8.1	29.9	6.6	90.8	6.6	8.9					
						Bottom	3.0	1	23.0	8.1	29.9	6.6	90.7	6.7	8.9					
	TCE-WQM4	Rainy	Moderate	15:30	4.4	Surface	1.0	1	23.0	8.1	29.9	6.4	89.0	9.2	11.4	6.6	9.9	11.3		
						Middle	3.4	1	23.0	8.1	29.9	6.4	89.0	9.2	11.9					
						Bottom	3.4	1	23.0	8.1	29.9	6.5	89.6	10.6	11.1					
	Mid-Flood	TCE-C1	Cloudy	Rough	12:08	7.6	Surface	1.0	1	22.9	8.1	28.7	6.8	92.7	9.7	18.4	6.8	14.7	15.5	
							Middle	3.8	1	22.9	8.1	29.5	6.8	93.1	13.2	16.5				
							Bottom	6.6	1	22.9	8.1	29.5	6.7	93.0	13.2	16.2				
			TCE-C2	Cloudy	Moderate	10:03	12.7	Surface	1.0	1	22.9	8.2	29.9	6.8	94.3	21.2	13.1	6.8	14.2	15.9
								Middle	6.4	1	23.2	8.1	30.1	6.6	91.2	20.1	20.3			
								Bottom	11.7	1	23.2	8.1	30.1	6.6	91.6	20.2	18.8			
			TCE-WQM1	Cloudy	Calm	11:13	7.5	Surface	1.0	1	22.8	8.1	29.9	6.4	88.7	12.9	15.3	6.6	13.9	16.2
								Middle	3.8	1	22.8	8.1	29.9	6.5	89.5	13.7	13.8			
								Bottom	6.5	1	22.8	8.1	29.9	6.6	90.7	15.3	20.0			
TCE-WQM2a			Cloudy	Moderate	10:41	7.6	Surface	1.0	1	23.0	8.1	29.7	6.6	90.6	10.1	11.9	6.6	10.7	12.7	
							Middle	3.8	1	23.0	8.1	29.7	6.6	90.6	10.0	12.6				
							Bottom	6.6	1	22.9	8.1	29.7	6.9	95.1	11.4	13.6				
TCE-WQM2b			Cloudy	Moderate	10:28	10.8	Surface	1.0	1	23.1	8.1	29.8	6.5	90.1	20.0	40.6	6.9	20.7	38.0	
							Middle	5.4	1	23.1	8.1	29.8	6.5	90.6	20.1	38.2				
							Bottom	9.8	1	23.1	8.1	29.8	6.6	90.9	20.1	38.5				
TCE-WQM3A		Cloudy	Calm	10:53	4.1	Surface	1.0	1	23.0	8.1	29.9	6.5	90.4	10.3	13.6	6.6	13.5	13.8		
						Middle	3.1	1	23.0	8.1	29.9	6.6	91.1	16.7	13.3					
						Bottom	3.1	1	23.0	8.1	29.9	6.6	91.0	16.6	14.3					
TCE-WQM4		Cloudy	Calm	11:02	3.2	Surface	1.0	1	23.0	8.1	30.0	6.5	90.6	12.9	15.4	6.5	13.8	15.9		
						Middle	2.2	1	23.0	8.1	30.0	6.5	90.5	12.8	16.8					
						Bottom	2.2	1	23.0	8.1	30.0	6.6	91.4	15.0	16.0					



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)
29-11-2018	Mid-Ebb	TCE-C1	Sunny	Moderate	16:41	8.2	Surface	1.0	1	23.2	8.3	30.0	6.6	92.2	6.9	7.8	6.6	8.5	6.9
								2	23.2	8.3	29.8	6.7	92.4	6.4	7.7				
							Middle	4.1	1	23.1	8.2	31.1	6.5	91.4	8.5	7.4			
								2	23.1	8.2	31.1	6.5	91.4	8.7	7.0				
							Bottom	7.2	1	23.1	8.1	32.1	6.5	90.8	10.3	5.8			
								2	23.1	8.1	32.1	6.5	90.8	10.2	5.8				
			1	23.1	8.2	31.0	6.0	83.5	4.7	3.1	6.5	5.3	5.5						
			2	23.1	8.2	31.0	6.0	83.6	4.8	3.2									
		Middle	6.2	1	23.2	8.1	31.3	5.9	83.1	4.7				5.8					
			2	23.2	8.1	31.3	5.9	83.1	4.7	5.8									
		Bottom	11.3	1	23.2	8.0	31.4	6.0	83.5	6.7				8.1					
			2	23.2	8.0	31.4	6.0	83.4	6.3	7.4									
			1	23.2	8.3	30.4	6.4	88.7	11.5	10.6	6.4	12.5	11.0						
			2	23.2	8.3	30.4	6.4	88.7	11.2	11.2									
		Middle	4.6	1	23.2	8.2	30.4	6.4	88.7	12.3				10.7					
			2	23.2	8.2	30.4	6.4	88.6	12.3	10.2									
		Bottom	8.1	1	23.2	8.1	30.4	6.4	89.1	13.7				11.7					
			2	23.2	8.1	30.4	6.4	89.0	13.8	11.6									
			1	23.0	8.1	30.2	6.4	89.1	7.6	10.0	6.4	7.6	11.7						
			2	23.0	8.1	30.2	6.4	89.2	7.6	9.8									
		Middle	3.5	1	23.0	8.0	30.2	6.3	87.3	7.8				11.0					
			2	23.0	8.0	30.2	6.3	87.5	7.7	11.6									
		Bottom	6.0	1	23.0	8.0	30.4	6.2	86.4	7.3				13.6					
			2	23.0	8.0	30.4	6.2	86.3	7.4	14.1									
		1	22.9	8.2	30.2	6.3	87.5	6.5	6.8	6.2	8.1	7.2							
		2	22.9	8.2	30.2	6.3	87.7	6.5	6.9										
	Middle	5.3	1	23.1	8.2	30.7	6.0	84.1	8.8				7.3						
		2	23.1	8.2	30.6	6.0	84.2	8.9	7.0										
	Bottom	9.6	1	23.2	8.1	31.1	6.1	85.5	8.8				8.0						
		2	23.2	8.1	31.1	6.1	85.3	8.8	7.1										
		1	23.1	8.0	30.3	6.4	89.1	6.6	6.6	6.4	7.0	12.1							
		2	23.1	8.0	30.3	6.4	89.1	6.5	7.4										
	Bottom	3.2	1	22.9	8.1	30.5	6.5	89.7	7.5				17.4						
		2	22.9	8.1	30.4	6.5	89.6	7.4	16.8										
		1	23.0	8.1	30.4	6.4	89.0	10.6	18.1										
		2	23.0	8.1	30.4	6.4	88.9	10.5	18.8										
		1	23.1	8.0	30.3	6.5	90.0	14.8	18.6	6.5	12.6	18.6							
		2	23.1	8.0	30.3	6.5	89.8	14.4	18.9										
	Surface	1.0	1	23.0	8.2	30.0	6.6	91.4	10.5				13.2						
		2	23.0	8.2	29.9	6.6	91.6	9.4	13.5										
	Middle	3.9	1	22.9	8.1	31.0	6.5	90.6	14.4				13.8						
		2	22.9	8.1	30.9	6.5	90.5	14.0	13.5										
		1	22.9	8.1	31.1	6.6	91.5	17.1	19.4	6.6	13.8	15.2							
		2	22.9	8.1	31.1	6.6	91.4	17.4	18.0										
	Surface	1.0	1	23.0	8.2	30.3	6.2	86.4	7.7				13.3						
		2	23.0	8.2	30.3	6.2	86.4	7.7	13.9										
	Middle	5.8	1	22.9	8.2	30.4	6.1	85.0	11.7				12.5						
		2	22.9	8.2	30.4	6.1	85.0	11.5	13.5										
	1	23.1	8.2	30.8	6.0	83.8	14.7	13.7	6.0	11.3	13.4								
	2	23.1	8.2	30.8	6.0	83.7	14.7	13.5											
Bottom	10.6	1	22.9	8.2	30.4	6.1	85.0	11.5				13.5							
	2	22.9	8.2	30.4	6.1	85.0	11.7	12.5											
	1	23.1	8.2	30.3	6.3	87.2	9.8	11.9											
	2	23.1	8.2	30.3	6.3	87.1	9.6	10.9											
	1	22.9	8.1	30.4	6.3	87.3	10.4	10.8	6.3	11.1	12.5								
	2	23.0	8.1	30.4	6.3	87.3	10.6	10.5											
Bottom	7.8	1	22.9	8.1	30.4	6.4	88.2	13.0				15.6							
	2	22.8	8.1	30.4	6.4	87.9	13.4	15.3											
	1	23.0	8.3	30.0	6.4	88.6	8.6	10.1											
	2	23.0	8.3	30.0	6.4	88.8	8.3	10.9											
	1	22.9	8.1	30.1	6.3	87.8	12.3	10.4	6.4	11.9	10.6								
	2	22.9	8.1	30.1	6.4	87.9	11.5	11.1											
Bottom	5.6	1	22.9	8.1	30.3	6.3	87.7	15.1				10.6							
	2	22.9	8.1	30.3	6.3	87.6	15.5	10.4											
	1	23.0	8.2	30.1	6.4	88.6	12.5	11.6											
	2	23.0	8.2	30.1	6.4	88.6	12.5	11.2											
	1	22.9	8.2	30.1	6.4	88.9	12.5	12.5	6.4	12.8	11.2								
	2	23.0	8.2	30.1	6.4	88.8	12.2	11.4											
Bottom	9.5	1	22.9	8.1	30.1	6.5	90.2	13.6				10.5							
	2	22.9	8.1	30.1	6.5	89.9	13.7	9.7											
	1	23.0	8.1	30.3	6.3	87.9	8.8	9.5											
	2	23.0	8.1	30.2	6.3	87.9	8.8	8.8											
	1	23.0	8.0	30.3	6.4	88.9	9.1	9.0	6.4	9.0	9.2								
	2	23.0	8.0	30.3	6.4	88.5	9.2	9.6											
Surface	1.0	1	23.1	8.2	30.4	6.3	87.7	12.1				11.5							
	2	23.1	8.2	30.4	6.3	87.7	12.0	12.4											
Bottom	2.2	1	23.0	8.1	30.4	6.4	89.1	16.5				12.5							
	2	23.0	8.1	30.4	6.4	88.4	16.1	12.6											
	1	23.1	8.2	30.4	6.3	87.7	12.1	11.5	6.4	14.2	12.3								
	2	23.1	8.2	30.4	6.3	87.7	12.0	12.4											
Bottom	2.2	1	23.0	8.1	30.4	6.4	89.1	16.5				12.5							
	2	23.0	8.1	30.4	6.4	88.4	16.1	12.6											
	1	23.0	8.1	30.3	6.3	87.9	8.8	9.5											
	2	23.0	8.1	30.3	6.3	87.9	8.8	8.8											