

Annex G3

Monitoring Results for Water Quality

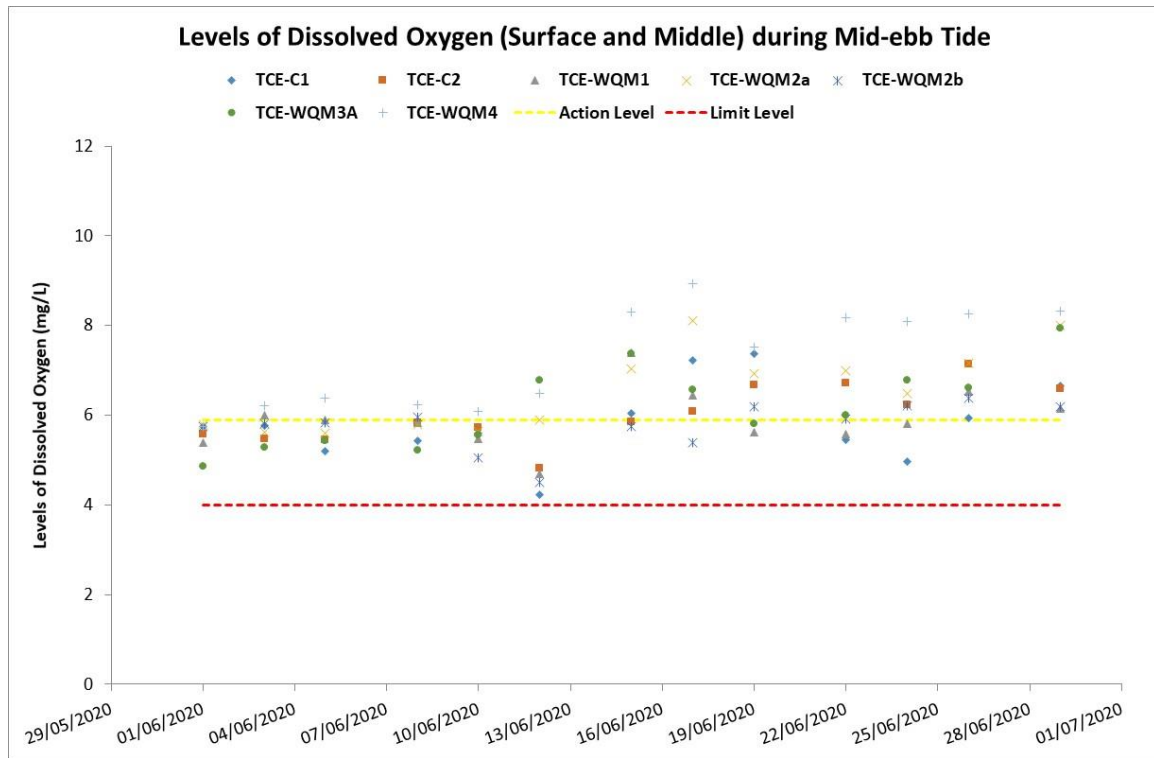


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 June 2020

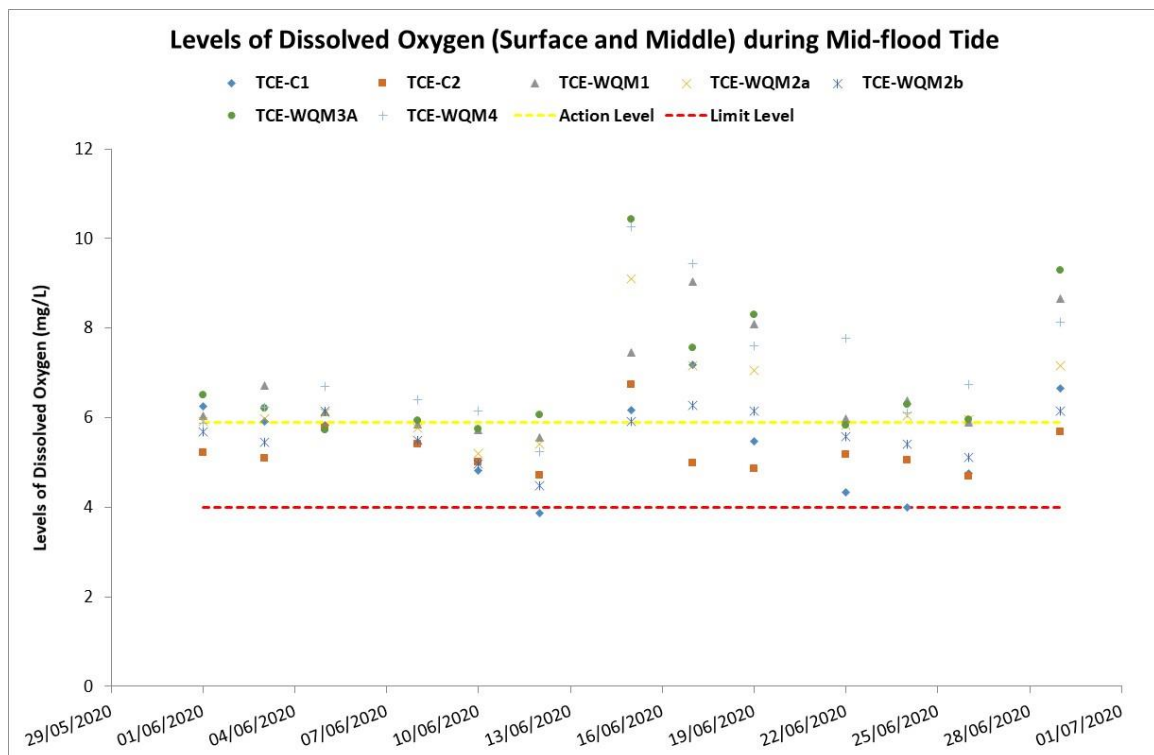


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 June 2020

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

Environmental Resources Management



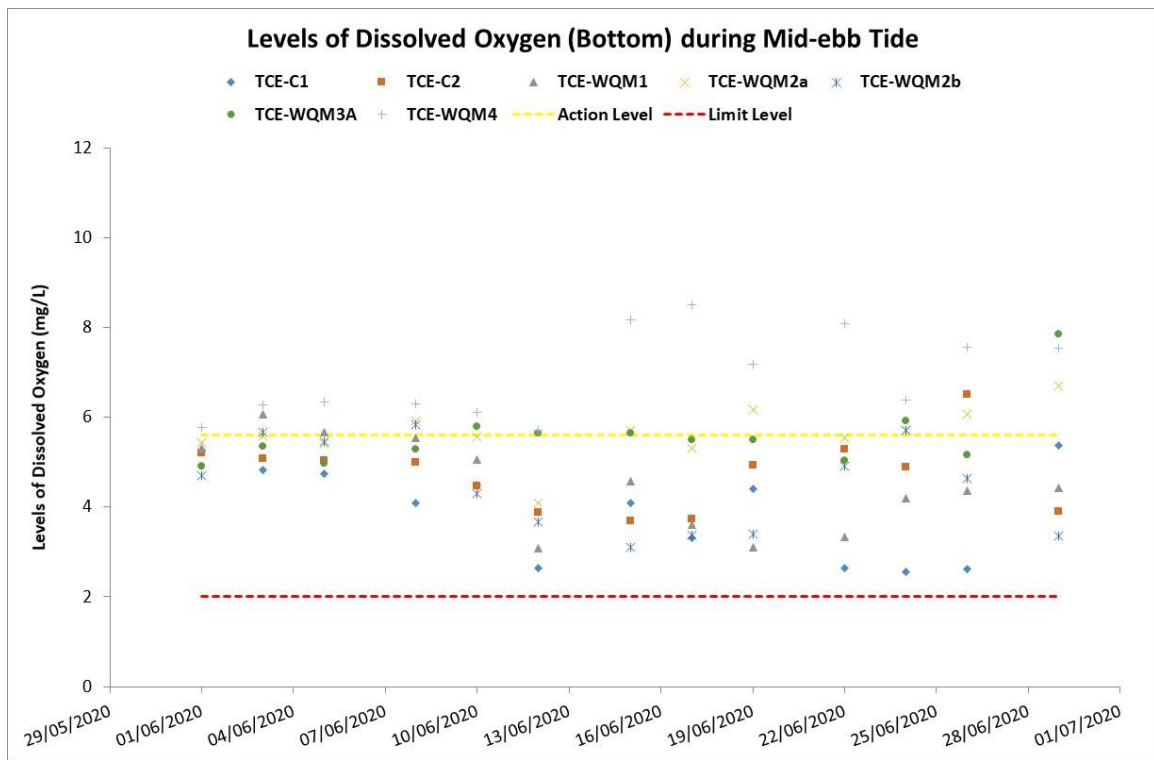


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 June 2020

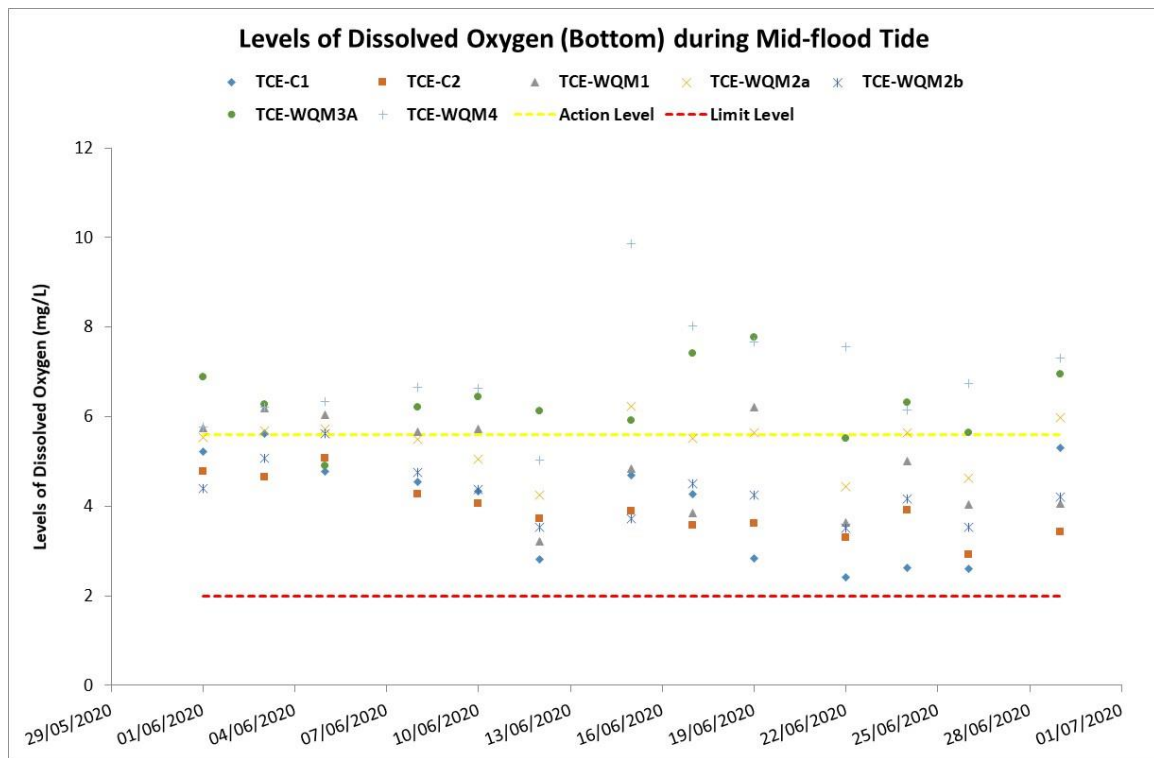


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 June 2020

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

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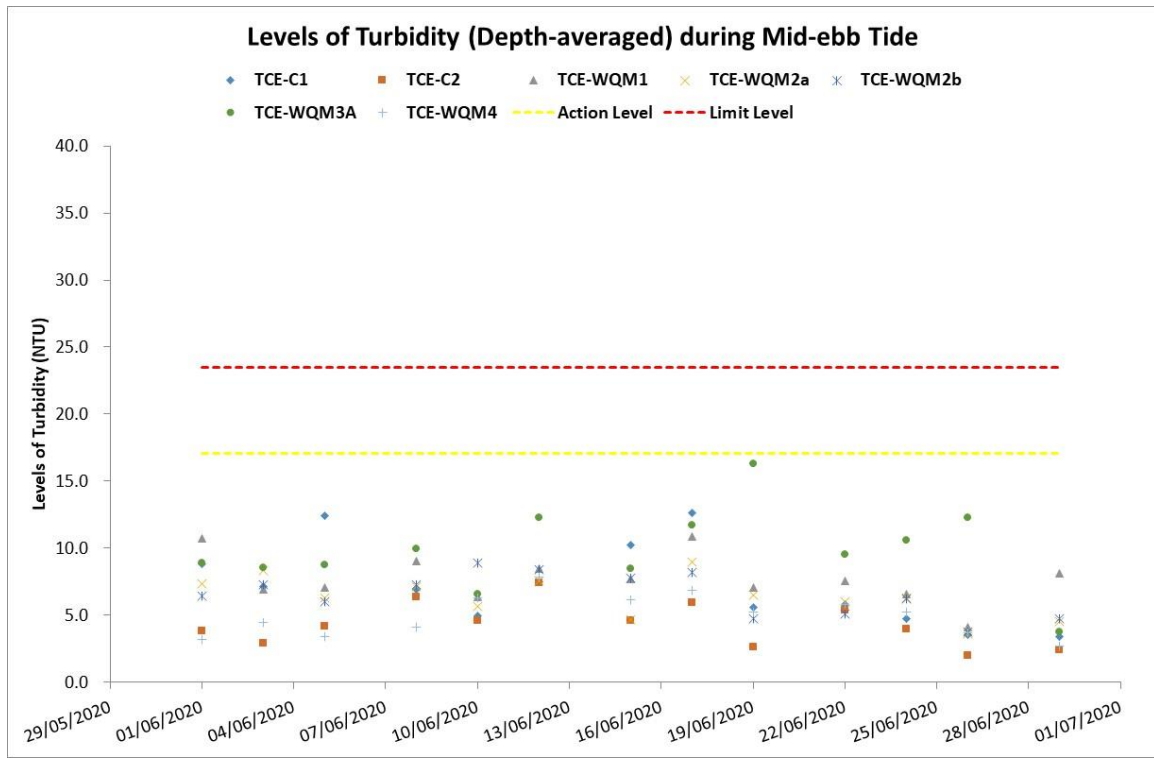


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 June 2020

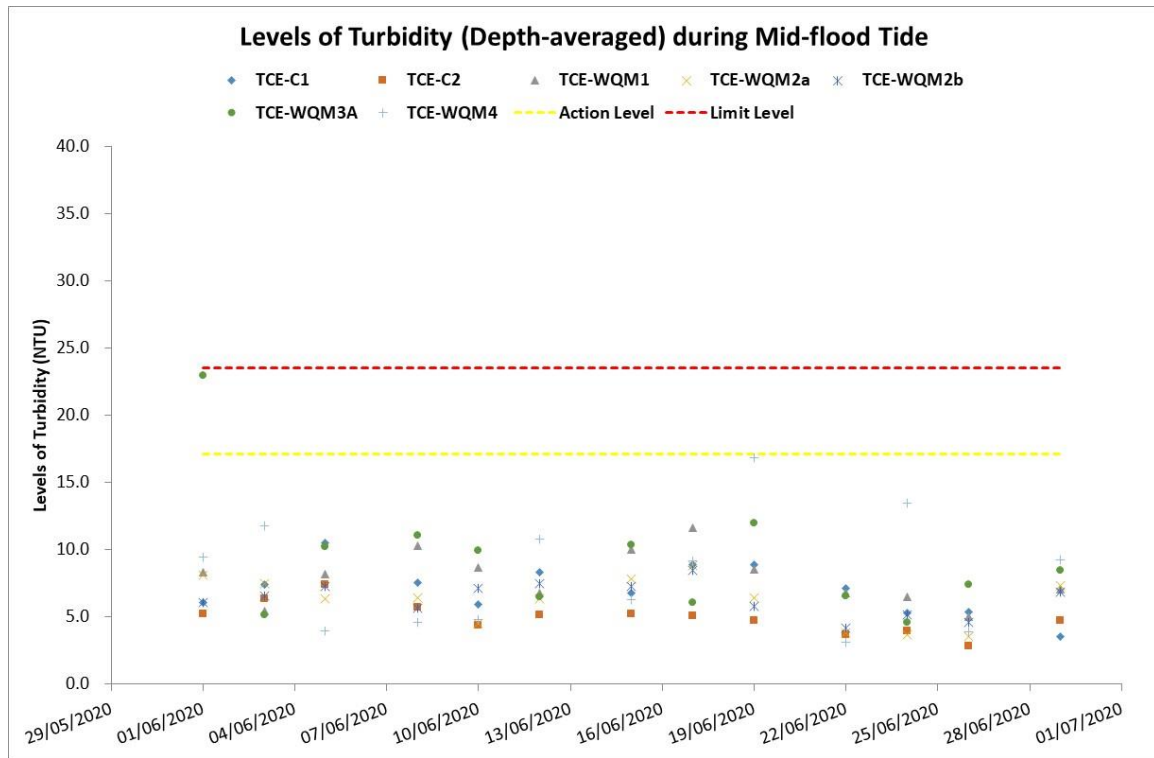


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 June 2020

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

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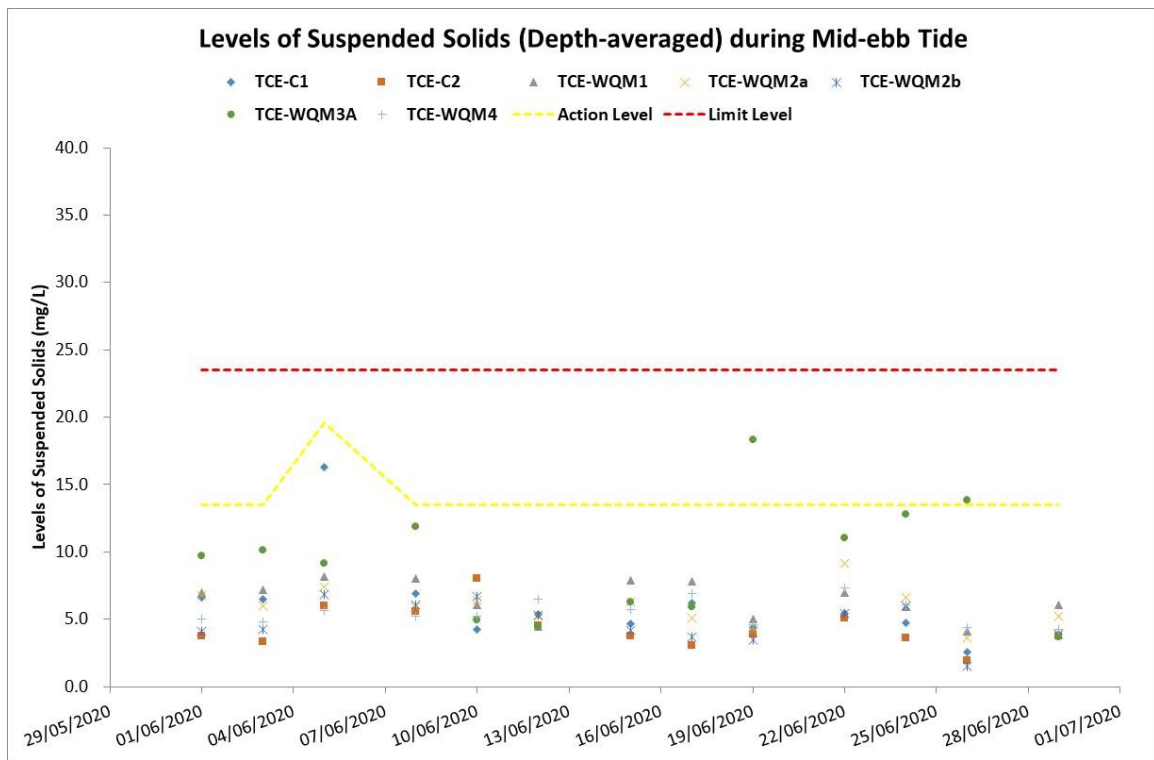


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 30 June 2020

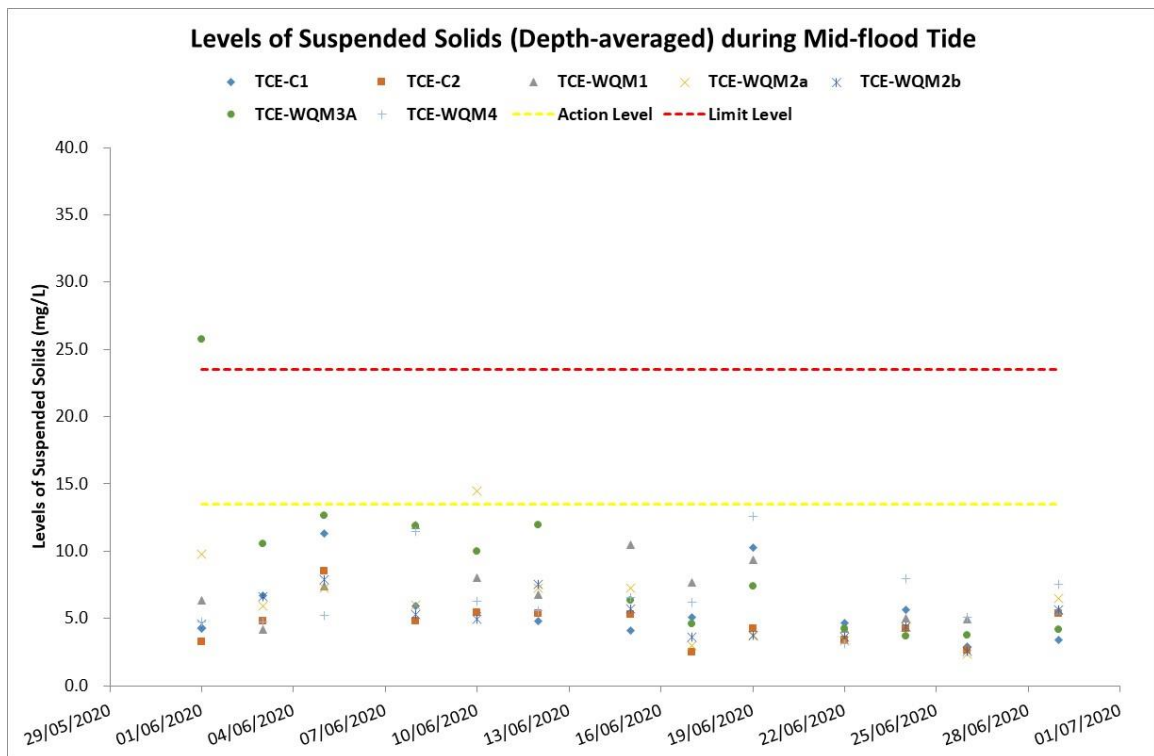


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 30 June 2020

Source: P:\Projects\0445700 CEDD ET for Tung Chung, JT\02_Deliverable\10 Monthly EM&A Report\
 Date: June 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)										
01-06-20	Mid-Ebb	TCE-C1	Fine	Moderate	10:06	8.2	Surface	1.0	1	28.2	7.8	19.1	5.8	82.2	5.9	7.0	5.7	8.8	6.6										
									2	28.2	7.8	19.1	5.8	82.2	6.0	6.8													
							Middle	4.1	1	27.4	7.8	20.0	5.7	80.7	8.7	6.5													
									2	27.2	7.8	20.1	5.7	80.5	9.4	6.7													
							Bottom	7.2	1	26.8	7.8	26.3	5.2	75.8	11.7	6.3													
									2	26.8	7.8	26.3	5.3	76.4	11.3	6.4													
		TCE-C2	Fine	Moderate	8:07	12.9	Surface	1.0	1	28.2	7.7	18.1	5.9	83.4	3.5	4.8	5.6	3.8	3.8										
									2	28.2	7.7	18.1	5.9	83.4	3.5	4.4													
							Middle	6.5	1	27.3	7.7	21.6	5.3	75.0	5.2	3.8													
									2	27.2	7.7	21.7	5.3	74.8	4.6	3.5													
							Bottom	11.9	1	27.0	7.7	24.7	5.2	74.9	2.8	3.0													
									2	27.0	7.7	24.7	5.2	75.0	3.3	3.2													
		TCE-WQM1	Fine	Calm	9:25	8.1	Surface	1.0	1	27.8	7.8	20.4	5.5	78.5	7.5	6.0	5.4	10.8	7.0										
									2	27.7	7.8	20.6	5.5	78.1	7.9	6.1													
							Middle	4.1	1	27.6	7.8	21.6	5.3	76.0	11.3	6.5													
									2	27.5	7.8	21.7	5.3	75.9	11.9	6.3													
							Bottom	7.1	1	27.5	7.8	21.9	5.3	75.9	13.0	8.3													
									2	27.5	7.8	21.9	5.3	76.1	13.0	8.8													
		TCE-WQM2a	Fine	Moderate	8:52	6.8	Surface	1.0	1	28.4	7.8	20.6	5.8	84.1	4.2	8.8	5.8	7.3	6.8										
									2	28.4	7.8	20.6	5.8	84.1	4.2	8.3													
							Middle	3.4	1	28.1	7.8	21.3	5.8	82.9	6.7	7.4													
									2	28.0	7.8	21.4	5.8	82.7	7.1	6.9													
							Bottom	5.8	1	27.6	7.8	21.9	5.4	77.9	10.7	4.8													
									2	27.6	7.8	21.9	5.4	77.9	11.1	4.3													
		TCE-WQM2b	Fine	Moderate	8:40	11.2	Surface	1.0	1	28.7	7.8	15.9	6.2	87.4	3.7	4.6	5.8	6.4	4.1										
									2	28.7	7.8	15.9	6.2	87.1	3.8	4.3													
							Middle	5.6	1	27.7	7.8	19.9	5.3	75.7	6.1	4.0													
									2	27.7	7.8	19.9	5.3	75.6	6.1	4.2													
							Bottom	10.2	1	26.3	7.8	27.9	4.7	67.9	9.6	3.7													
									2	26.3	7.8	27.9	4.7	68.4	9.5	3.6													
		TCE-WQM3A	Fine	Calm	9:04	4.0	Surface	1.0	1	27.5	7.7	21.9	4.9	69.7	8.8	9.3	4.9	8.9	9.7										
									2	27.5	7.7	22.0	4.9	69.6	8.7	9.5													
							Bottom	3.0	1	27.3	7.7	22.9	4.9	70.2	9.0	9.8													
									2	27.3	7.7	22.8	4.9	70.7	9.1	10.2													
							TCE-WQM4	Fine	Calm	9:14	3.7	Surface	1.0	1	28.1	7.8				20.5	5.8	82.6	3.0	5.9	5.8	3.2	5.0		
														2	28.0	7.8				20.6	5.8	82.5	3.0	5.7					
		Bottom	2.7	1	27.9	7.8						21.0	5.8	82.5	3.3	4.2													
				2	27.9	7.8						21.0	5.8	82.5	3.4	4.3													
		01-06-20	Mid-Flood	TCE-C1	Cloudy	Moderate						13:29	8.0	Surface	1.0	1	28.5	7.8	17.4	6.4	91.0	5.0	3.7	6.3				6.1	4.2
																2	28.5	a	17.4	6.4	90.9	5.1	3.6						
							Middle	4.0	1	28.3	7.8			18.0	6.1	86.9	5.0	3.8											
									2	28.3	7.8			18.0	6.1	86.7	5.1	3.9											
							Bottom	7.0	1	27.4	7.8			23.1	5.2	75.5	8.0	5.3											
									2	27.5	7.8			24.9	5.2	75.6	8.2	5.1											
				TCE-C2	Cloudy	Moderate	15:28	12.7	Surface	1.0	1	28.2	7.8	19.9	5.8	83.6	3.7	2.8	5.2	5.2	3.3								
											2	28.2	7.8	19.8	5.8	83.3	3.9	2.7											
									Middle	6.4	1	26.1	7.8	28.9	4.6	67.1	3.7	3.3											
											2	26.1	7.8	29.1	4.6	67.1	4.1	3.1											
Bottom	11.7								1	26.0	7.8	29.9	4.8	69.6	8.0	3.8													
									2	26.0	7.8	29.9	4.8	69.9	8.0	3.8													
TCE-WQM1	Cloudy			Calm	14:06	8.2	Surface	1.0	1	28.5	7.8	20.5	6.1	87.3	5.9	6.7	6.0	8.3	6.3										
									2	28.5	7.8	20.5	6.0	87.2	6.0	7.0													
							Middle	4.1	1	28.3	7.8	20.7	6.0	86.8	7.6	6.3													
									2	28.2	7.8	20.8	6.0	86.7	8.1	6.0													
							Bottom	7.2	1	27.9	7.8	21.2	5.7	82.4	11.2	6.0													
									2	27.9	7.8	21.2	5.8	82.7	11.3	6.0													
TCE-WQM2a	Rainy			Moderate	14:47	6.9	Surface	1.0	1	28.7	7.8	19.5	6.1	88.3	3.9	6.2	5.9	8.1	9.8										
									2	28.7	7.8	19.5	6.1	88.3	3.9	6.3													
							Middle	3.5	1	28.1	7.8	20.3	5.7	81.7	14.3	6.2													
									2	28.1	7.8	20.3	5.7	81.0	13.1	6.4													
							Bottom	5.9	1	27.6	7.8	21.9	5.5	79.2	6.2	17.4													
									2	27.6	7.8	21.8	5.6	79.6	7.1	16.2													
TCE-WQM2b	Cloudy			Moderate	14:59	11.1	Surface	1.0	1	28.6	7.8	19.1	6.0	86.4	3.6	3.7	5.7	6.1	4.6										
									2	28.5	7.8	19.1	6.0	86.3	3.7	4.0													
							Middle	5.6	1	27.8	7.8	20.9	5.3	76.4	6.1	4.9													
									2	27.8	7.8	21.0	5.3	76.2	6.2	4.4													
							Bottom	10.1	1	26.3	7.8	27.7	4.4	63.7	8.4	5.1													
									2	26.3	7.8	27.7	4.4	63.9	8.4	5.5													
TCE-WQM3A	Rainy			Calm	14:35	4.1	Surface	1.0	1	28.9	7.8	19.5	6.5	93.9	18.5	22.3	6.5	22.9	25.7										
									2	28.8	7.8	19.5	6.5	94.1	18.3	22.4													
							Bottom	3.1	1	28.8	7.9	19.5	6.9	99.3	27.5	29.4													
									2	29.1	7.9	19.4	6.9	100.3	27.5	28.8													
							TCE-WQM4	Cloudy	Calm	14:21	3.6	Surface	1.0	1	28.3	7.8				19.5	5.9	84.1	8.0	5.4	5.9	9.4	4.8		
														2	28.3	7.8				19.6	5.9	83.8	8.3	5.9					
Bottom	2.6			1	28.1	7.8						20.4	5.8	82.7	10.6	3.8													
				2	28.1	7.8						20.4	5.8	82.8	10.7	3.9													

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)			
03-06-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	12:04	7.8	Surface	1.0	1	28.2	7.8	17.4	6.4	90.2	3.9	6.8	5.8	7.2	6.5			
									2	28.2	7.8	17.4	6.4	89.8	4.2	7.2						
							Middle	3.9	1	27.3	7.8	22.5	5.1	73.6	8.0	6.1						
									2	27.3	7.8	22.5	5.1	73.6	8.1	6.5						
							Bottom	6.8	1	26.4	7.8	28.1	4.8	70.1	9.9	6.0						
									2	26.4	7.8	28.1	4.8	70.2	8.9	6.5						
		TCE-C2	Cloudy	Moderate	9:59	12.1	Surface	1.0	1	27.6	7.7	20.5	5.5	78.5	2.5	2.5	5.5	2.9	3.3			
									2	27.6	7.7	20.5	5.5	78.3	2.5	3.2						
							Middle	6.1	1	27.5	7.7	22.1	5.4	77.7	2.4	3.4						
									2	27.5	7.7	22.2	5.4	77.7	2.4	2.8						
							Bottom	11.1	1	27.0	7.7	24.9	5.1	73.3	3.9	4.1						
									2	27.0	7.7	24.9	5.1	73.4	3.9	3.8						
		TCE-WQM1	Cloudy	Moderate	11:22	8.3	Surface	1.0	1	28.1	7.8	17.4	6.1	85.7	5.4	6.8	6.0	6.9	7.2			
									2	28.0	7.8	17.4	6.1	85.4	5.5	6.0						
							Middle	4.2	1	28.0	7.8	18.3	5.9	83.7	7.3	6.6						
									2	28.0	7.8	18.3	5.9	83.8	7.5	7.4						
							Bottom	7.3	1	28.0	7.8	18.7	6.1	85.8	7.9	8.7						
									2	28.0	7.8	18.7	6.1	86.0	8.1	7.7						
		TCE-WQM2a	Cloudy	Moderate	10:48	7.3	Surface	1.0	1	27.9	7.8	20.2	5.7	81.3	5.5	4.9	5.6	8.4	6.0			
									2	27.9	7.8	20.2	5.7	81.3	5.5	4.5						
							Middle	3.7	1	27.7	7.8	21.1	5.6	79.5	10.5	5.2						
									2	27.7	7.8	21.1	5.6	79.4	11.1	4.7						
							Bottom	6.3	1	27.6	7.8	21.7	5.6	79.7	8.9	8.0						
									2	27.6	7.8	21.7	5.6	80.0	8.7	8.6						
		TCE-WQM2b	Cloudy	Moderate	10:36	11.6	Surface	1.0	1	28.2	7.7	16.8	6.0	84.9	3.5	3.1	5.8	7.3	4.2			
									2	28.2	7.7	16.8	6.0	84.9	3.5	2.4						
							Middle	5.8	1	27.8	7.7	19.2	5.6	79.4	5.3	3.9						
									2	27.8	7.7	19.2	5.6	79.5	5.3	4.2						
							Bottom	10.6	1	27.7	7.8	19.6	5.7	80.2	13.2	5.4						
									2	27.7	7.8	19.6	5.7	80.4	13.1	6.3						
		TCE-WQM3A	Cloudy	Moderate	11:00	4.3	Surface	1.0	1	27.5	7.8	21.3	5.3	75.2	8.4	10.3	5.3	8.6	10.1			
									2	27.5	7.8	21.1	5.3	75.3	8.5	9.5						
							Bottom	3.3	1	27.4	7.8	22.8	5.2	74.8	8.8	10.8						
									2	27.4	7.8	22.7	5.5	78.5	8.6	9.9						
							Surface	1.0	1	28.3	7.8	18.0	6.2	88.1	4.3	5.2				6.2	4.4	4.8
									2	28.3	7.8	18.1	6.2	88.1	4.3	4.2						
		Bottom	2.6	1	28.2	7.8	18.3	6.3	88.9	4.6	5.3											
				2	28.1	7.8	18.4	6.3	89.0	4.6	4.6											
		Surface	1.0	1	29.1	7.8	16.0	6.3	89.4	6.0	5.9	5.9	7.4	6.7								
				2	29.1	7.8	16.0	6.3	89.2	6.1	6.5											
		Middle	3.8	1	27.8	7.8	20.3	5.5	78.9	7.9	6.3											
				2	27.8	7.8	20.3	5.5	78.9	7.9	7.3											
		Bottom	6.5	1	27.7	7.8	20.8	5.6	80.1	8.3	7.6											
				2	27.7	7.8	20.8	5.6	80.3	8.3	6.7											
		TCE-C2	Cloudy	Moderate	18:05	12.7	Surface	1.0	1	27.5	7.8	21.8	5.6	79.6	4.0	4.9	5.1	6.3	4.8			
									2	27.4	7.8	21.8	5.6	79.4	4.2	5.4						
							Middle	6.4	1	26.5	7.8	27.4	4.6	67.2	6.4	4.5						
									2	26.4	7.8	27.6	4.6	67.0	6.6	5.4						
Bottom	11.7						1	26.3	7.8	28.7	4.6	67.6	8.6	4.6								
							2	26.3	7.8	28.7	4.7	67.7	8.2	4.2								
TCE-WQM1	Cloudy	Moderate	16:28	7.8	Surface	1.0	1	29.5	7.9	18.4	6.8	98.7	3.1	3.4	6.7	5.4	4.2					
							2	29.5	7.9	18.5	6.8	98.4	3.2	3.9								
					Middle	3.9	1	29.4	7.9	18.7	6.7	96.4	3.9	3.4								
							2	29.3	7.9	18.8	6.7	96.4	4.3	4.4								
					Bottom	6.8	1	28.7	7.9	19.6	6.2	89.3	9.0	5.1								
							2	28.7	7.9	19.6	6.2	89.3	9.2	4.8								
TCE-WQM2a	Cloudy	Moderate	17:27	6.8	Surface	1.0	1	28.4	7.8	19.9	6.2	89.4	8.6	6.0	6.0	7.4	6.0					
							2	28.4	7.8	19.9	6.2	89.4	8.6	6.5								
					Middle	3.4	1	28.0	7.8	20.7	5.7	82.1	7.4	6.5								
							2	27.9	7.8	20.8	5.7	81.9	7.3	6.4								
					Bottom	5.8	1	27.8	7.8	21.2	5.7	81.4	6.4	5.0								
							2	27.8	7.8	21.3	5.7	81.5	6.4	5.3								
TCE-WQM2b	Cloudy	Moderate	17:37	11.2	Surface	1.0	1	27.8	7.8	20.7	5.5	78.4	6.0	6.4	5.5	6.6	6.6					
							2	27.8	7.8	20.8	5.5	78.1	6.3	5.6								
					Middle	5.6	1	27.7	7.8	20.9	5.4	77.6	6.9	5.9								
							2	27.6	7.8	21.0	5.4	77.5	6.8	6.3								
					Bottom	10.2	1	27.1	7.8	24.4	5.1	73.0	6.8	7.9								
							2	27.1	7.8	24.5	5.1	73.4	6.7	7.6								
TCE-WQM3A	Cloudy	Moderate	17:16	3.9	Surface	1.0	1	28.6	7.8	19.8	6.2	89.3	4.7	10.0	6.2	5.1	10.6					
							2	28.6	7.8	19.8	6.2	89.4	4.3	10.7								
					Bottom	2.9	1	28.5	7.8	19.9	6.3	90.2	5.9	10.0								
							2	28.5	7.9	19.9	6.3	90.5	5.6	11.5								
					Surface	1.0	1	28.5	7.8	19.8	6.3	90.0	10.0	4.9				6.2	11.7	4.7		
							2	28.5	7.8	19.9	6.2	89.8	10.5	4.8								
Bottom	2.6	1	28.8	7.8	19.9	6.2	89.9	12.9	4.4													
		2	28.9	7.8	19.8	6.2	90.2	13.5	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)					
05-06-20	Mid-Ebb	TCE-C1	Fine	Rough	13:44	8.0	Surface	1.0	1	28.0	7.8	22.0	5.5	79.1	11.6	15.0	5.2	12.5	16.3					
									2	28.0	7.8	22.0	5.5	79.1	11.6	15.3								
							Middle	4.0	1	27.2	7.8	23.9	4.9	70.7	12.6	16.4								
									2	27.2	7.8	23.9	4.9	70.7	12.6	16.2								
				Bottom	7.0	1	26.8	7.8	25.7	4.7	68.4	13.3	17.4	4.7										
						2	26.8	7.8	25.8	4.7	68.4	13.1	17.6											
		TCE-C2	Fine	Moderate	11:23	13.2	Surface	1.0	1	28.3	7.7	20.2	5.7				81.1	4.0	4.8	5.4	4.2	6.0		
									2	28.3	7.7	20.2	5.6				81.1	4.0	5.0					
							Middle	6.6	1	27.7	7.7	22.5	5.2	75.4	4.5	6.1								
									2	27.6	7.7	22.6	5.2	75.4	4.5	6.4								
				Bottom	12.2	1	27.1	7.7	24.7	5.0	72.6	4.1	6.7	5.0										
						2	27.1	7.7	24.7	5.0	72.8	4.1	6.8											
		TCE-WQM1	Fine	Calm	12:51	8.6	Surface	1.0	1	28.4	7.8	18.1	6.0				85.2	6.1	7.4	5.9	7.0	8.2		
									2	28.4	7.8	18.1	6.0				85.2	6.1	7.5					
							Middle	4.3	1	28.4	7.8	18.6	5.8	83.1	6.9	8.2								
									2	28.4	7.8	18.6	5.8	83.1	7.0	8.4								
				Bottom	7.6	1	28.4	7.8	19.4	5.7	81.0	8.2	8.6	5.7										
						2	28.4	7.8	19.4	5.7	81.2	7.9	8.9											
		TCE-WQM2a	Fine	Moderate	12:14	7.6	Surface	1.0	1	28.3	7.8	20.6	5.7				81.4	5.6	6.6	5.6	6.3	7.4		
									2	28.3	7.8	20.6	5.7				81.4	5.6	7.2					
							Middle	3.8	1	28.2	7.8	21.0	5.6	80.1	5.9	7.0								
									2	28.2	7.8	21.0	5.6	80.0	5.9	7.5								
				Bottom	6.6	1	27.9	7.8	22.1	5.4	77.9	7.3	7.9	5.4										
						2	27.9	7.8	22.1	5.4	78.0	7.3	8.1											
		TCE-WQM2b	Fine	Moderate	11:59	12.5	Surface	1.0	1	28.6	7.8	17.5	6.2				87.8	4.0	4.8	5.8	6.0	6.8		
									2	28.6	7.8	17.5	6.2				87.7	4.0	5.0					
							Middle	6.3	1	27.9	7.8	19.9	5.5	78.2	6.4	5.0								
									2	27.9	7.8	19.9	5.5	78.2	6.2	5.4								
				Bottom	11.5	1	27.9	7.8	20.0	5.5	77.6	7.8	10.6	5.5										
						2	27.9	7.8	20.0	5.5	77.6	7.6	10.1											
		TCE-WQM3A	Fine	Calm	12:27	4.1	Surface	1.0	1	28.3	7.8	19.8	5.4				77.7	7.1	8.2	5.4	8.8	9.2		
									2	28.3	7.8	19.8	5.4				77.7	7.1	8.4					
							Bottom	3.1	1	27.7	7.8	21.7	5.0	71.3	10.4	10.1								
									2	27.7	7.8	21.8	5.0	71.3	10.5	9.9								
		TCE-WQM4	Fine	Calm	12:38	3.5	Surface	1.0	1	28.8	7.9	18.8	6.4	91.6	3.6	5.4	6.4	3.4	5.7					
									2	28.8	7.9	18.8	6.4	91.7	3.6	5.5								
							Bottom	2.5	1	28.8	7.9	18.9	6.4	91.3	3.2	6.0								
									2	28.8	7.9	18.9	6.3	91.2	3.2	5.7								
		05-06-20	Mid-Flood	TCE-C1	Fine	Moderate	17:55	7.8	Surface	1.0	1	28.4	7.9	20.6	6.0	85.7	7.9	12.3	5.8	10.5	11.3			
											2	28.4	7.9	20.6	5.9	85.7	7.9	12.4						
									Middle	3.9	1	28.3	7.8	20.6	5.7	82.6	10.8	11.3						
											2	28.3	7.8	20.6	5.7	82.4	10.7	11.0						
						Bottom	6.8	1	26.8	7.8	25.7	4.8	68.9	12.9	10.3	4.8								
								2	26.8	7.8	25.7	4.8	69.1	12.9	10.5									
				TCE-C2	Cloudy	Moderate	19:55	12.8	Surface	1.0	1	28.6	7.8	18.7	5.9				84.7	7.0	9.2	5.8	7.4	8.5
											2	28.6	7.8	18.7	5.9				84.5	7.2	8.8			
									Middle	6.4	1	28.2	7.8	20.2	5.6	80.2	7.9	8.4						
											2	28.2	7.8	20.2	5.6	80.2	7.9	8.6						
				Bottom	11.8	1	27.3	7.8	24.1	5.1	73.3	7.0	8.2	5.1										
						2	27.4	7.8	24.1	5.1	73.5	7.2	8.0											
TCE-WQM1	Cloudy			Calm	18:42	8.3	Surface	1.0	1	28.7	7.8	18.8	6.3				90.1	6.1	6.3	6.1	8.1	7.4		
									2	28.7	7.8	18.8	6.3				90.0	6.0	6.0					
							Middle	4.2	1	28.5	7.8	19.4	6.0	86.0	8.3	6.8								
									2	28.5	7.8	19.3	6.0	86.1	8.3	7.3								
				Bottom	7.3	1	28.5	7.9	20.0	6.0	86.9	10.1	8.8	6.0										
						2	28.5	7.9	20.0	6.0	87.0	10.1	9.2											
TCE-WQM2a	Cloudy			Moderate	19:20	7.4	Surface	1.0	1	28.8	7.8	19.8	6.2				89.4	4.6	6.0	6.1	6.3	7.3		
									2	28.8	7.8	19.8	6.2				89.4	4.6	6.1					
							Middle	3.7	1	28.6	7.8	19.9	6.0	86.7	6.3	6.8								
									2	28.6	7.8	19.9	6.0	86.9	6.4	7.2								
				Bottom	6.4	1	28.4	7.8	20.3	5.7	82.4	8.1	8.6	5.7										
						2	28.4	7.8	20.3	5.7	82.4	8.0	8.8											
TCE-WQM2b	Cloudy			Moderate	19:32	12.0	Surface	1.0	1	29.1	7.8	14.1	6.2				87.7	5.8	9.1	6.1	7.3	7.9		
									2	29.1	7.8	14.0	6.2				87.6	5.8	8.9					
							Middle	6.0	1	28.8	7.8	15.6	6.1	85.5	6.9	7.5								
									2	28.8	7.8	15.6	6.1	85.4	6.9	7.9								
				Bottom	11.0	1	28.0	7.8	18.2	5.7	79.9	9.1	7.0	5.6										
						2	28.0	7.8	18.3	5.6	79.3	9.3	7.0											
TCE-WQM3A	Cloudy			Calm	19:07	3.8	Surface	1.0	1	28.7	7.8	19.9	5.7				82.7	8.5	12.2	5.7	10.2	12.6		
									2	28.6	7.8	20.0	5.7				82.5	8.5	11.7					
							Bottom	2.8	1	27.7	7.8	22.3	4.9	70.4	11.9	13.5								
									2	27.7	7.8	22.3	4.9	70.6	12.0	13.1								
TCE-WQM4	Cloudy			Calm	18:55	3.1	Surface	1.0	1	29.0	7.9	18.7	6.7	96.6	3.5	4.3	6.7	3.9	5.2					
									2	29.0	7.9	18.7	6.7	96.5	3.5	4.7								
							Bottom	2.1	1	28.7	7.9	19.7	6.3	91.4	4.2	5.8								
									2	28.7	7.9	19.7	6.4	91.5	4.4	6.1								

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged							
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)					
08-06-20	Mid-Ebb	TCE-C1	Rainy	Moderate	13:05	7.9	Surface	1.0	1	27.5	7.8	14.4	6.2	84.5	5.2	5.5	5.4	6.9	6.9					
									2	27.5	7.8	14.4	6.1	84.1	5.2	5.8								
							Middle	4.0	1	26.6	7.8	22.6	4.7	66.8	6.0	6.7								
									2	26.6	7.8	22.6	4.7	66.8	6.0	6.9								
				Bottom	6.9	1	25.6	7.8	29.1	4.1	58.6	9.7	8.1	4.1										
						2	25.6	7.8	29.1	4.1	59.1	9.5	8.5											
		TCE-C2	Rainy	Moderate	15:02	13.0	Surface	1.0	1	27.7	7.7	12.8	6.0				81.6	4.7	4.2	5.8	6.4	5.6		
								2	27.7	7.7	12.8	6.0	81.2				4.8	4.2						
		Middle					6.5	1	27.6	7.7	14.2	5.7	78.5	5.7	5.8									
								2	27.6	7.7	14.2	5.7	78.4	5.7	5.4									
				Bottom	12.0	1	26.9	7.7	22.0	5.0	70.7	8.9	7.2	5.0										
						2	27.0	7.7	22.0	5.0	70.9	8.6	6.8											
		TCE-WQM1	Rainy	Calm	13:51	8.2	Surface	1.0	1	27.4	7.7	14.9	6.1				83.4	7.2	7.6	5.8	9.1	8.1		
								2	27.5	7.7	14.9	6.1	83.2				7.2	7.8						
		Middle					4.1	1	27.4	7.7	16.3	5.6	77.4	9.7	8.1									
								2	27.4	7.7	16.4	5.6	77.2	9.6	8.4									
				Bottom	7.2	1	27.4	7.7	17.0	5.5	77.0	10.3	8.3	5.5										
						2	27.4	7.7	17.0	5.6	77.1	10.3	8.1											
		TCE-WQM2a	Rainy	Moderate	14:26	7.0	Surface	1.0	1	27.4	7.7	16.4	6.0				83.0	11.0	5.4	5.8	7.1	5.9		
								2	27.4	7.7	16.4	6.0	83.0				11.0	5.0						
		Middle					3.5	1	27.4	7.7	17.1	5.6	77.4	5.1	6.0									
								2	27.4	7.7	17.2	5.6	77.6	5.1	6.1									
				Bottom	6.0	1	27.2	7.7	17.4	5.9	82.0	5.3	6.6	5.9										
						2	27.1	7.7	17.4	6.0	82.5	5.3	6.4											
		TCE-WQM2b	Rainy	Moderate	14:39	11.4	Surface	1.0	1	27.8	7.7	11.8	6.1				83.5	5.3	5.1	6.0	7.3	6.1		
								2	27.7	7.7	11.8	6.2	83.5				5.5	5.0						
		Middle					5.7	1	27.6	7.7	14.9	5.8	79.5	8.1	5.8									
								2	27.6	7.7	15.0	5.8	79.5	8.1	5.8									
				Bottom	10.4	1	27.6	7.7	15.1	5.8	80.3	8.4	7.4	5.8										
						2	27.6	7.7	15.0	5.8	80.5	8.4	7.4											
		TCE-WQM3A	Rainy	Calm	14:14	4.3	Surface	1.0	1	27.4	7.7	16.1	5.2				72.1	9.7	11.9	5.2	10.0	11.9		
								2	27.4	7.7	16.1	5.2	72.2				9.8	12.2						
		Bottom					3.3	1	27.3	7.7	18.8	5.3	73.9	10.4	11.8									
								2	27.2	7.7	18.8	5.3	74.2	10.2	11.5									
				TCE-WQM4	Rainy	Calm	14:04	3.7	Surface	1.0	1	27.5	7.7	14.4	6.2	85.7	3.8	5.4	6.2	4.1	5.3			
										2	27.5	7.7	14.4	6.2	85.7	3.9	5.8							
		Bottom	2.7	1					27.5	7.7	14.7	6.3	86.5	4.4	4.9									
				2					27.5	7.7	14.7	6.3	86.6	4.5	4.9									
		08-06-20	Mid-Flood	TCE-C1	Rainy	Moderate	9:15	8.3	Surface	1.0	1	27.5	7.8	14.4	6.1	83.7	5.3	6.6	5.4	7.5	5.9			
											2	27.5	7.8	14.4	6.1	83.5	5.4	6.6						
									Middle	4.2	1	26.0	7.8	23.1	4.9	68.3	8.0	6.0						
											2	26.0	7.8	23.1	4.6	65.0	7.9	5.8						
						Bottom	7.3	1	26.1	7.8	29.2	4.5	65.7	9.2	5.1	4.5								
								2	26.1	7.8	29.2	4.6	66.4	9.3	5.3									
				TCE-C2	Rainy	Moderate	7:10	12.7	Surface	1.0	1	27.3	7.7	15.6	5.9				81.4	3.2	4.9	5.4	5.7	4.8
										2	27.3	7.7	15.6	5.9	81.6				3.2	5.1				
				Middle					6.4	1	26.8	7.7	21.5	4.9	69.0	6.2	4.6							
										2	26.8	7.7	21.5	4.9	68.9	6.2	4.9							
				Bottom	11.7	1	26.1	7.7	28.7	4.3	61.8	7.7	4.5	4.3										
						2	26.1	7.7	28.6	4.3	62.2	7.9	4.7											
TCE-WQM1	Rainy			Calm	8:30	7.8	Surface	1.0	1	27.5	7.7	14.9	6.1				83.3	9.5	11.1	5.9	10.3	12.0		
								2	27.5	7.7	15.0	6.0	83.1				9.2	11.4						
Middle							3.9	1	27.4	7.7	16.1	5.7	78.3	10.3	12.4									
								2	27.4	7.7	16.1	5.7	78.2	10.5	12.4									
				Bottom	6.8	1	27.3	7.7	17.2	5.7	78.7	11.1	12.4	5.7										
						2	27.3	7.7	17.2	5.7	78.8	11.2	12.1											
TCE-WQM2a	Rainy			Moderate	7:54	6.8	Surface	1.0	1	27.5	7.8	15.1	6.1				83.8	6.2	5.5	5.8	6.4	6.0		
								2	27.5	7.8	15.1	6.1	83.8				6.2	5.5						
Middle							3.4	1	27.1	7.8	20.1	5.4	76.4	5.0	6.0									
								2	27.1	7.8	20.1	5.4	76.5	5.2	5.7									
				Bottom	5.8	1	27.3	7.8	20.2	5.5	77.6	8.1	7.0	5.5										
						2	27.4	7.7	20.2	5.5	77.8	7.9	6.7											
TCE-WQM2b	Rainy			Moderate	7:40	11.3	Surface	1.0	1	27.3	7.7	15.8	5.9				81.0	4.6	4.8	5.5	5.6	5.3		
								2	27.2	7.7	15.8	5.9	81.6				4.7	5.0						
Middle							5.7	1	27.2	7.7	19.0	5.1	71.4	6.2	5.4									
								2	27.2	7.7	19.0	5.1	71.2	6.2	5.2									
				Bottom	10.3	1	27.1	7.7	25.2	4.7	68.5	6.3	5.6	4.8										
						2	27.2	7.7	25.1	4.8	69.3	5.8	5.7											
TCE-WQM3A	Rainy			Calm	8:06	4.1	Surface	1.0	1	27.5	7.7	15.0	5.9				81.4	11.1	11.7	5.9	11.1	11.9		
								2	27.4	7.7	15.0	6.0	81.7				11.0	11.3						
Bottom							3.1	1	27.1	7.8	16.2	6.2	85.1	11.5	12.1									
								2	27.1	7.8	16.2	6.3	85.9	10.7	12.3									
				TCE-WQM4	Rainy	Calm	8:17	3.6	Surface	1.0	1	27.6	7.8	14.1	6.4	87.8	4.6	11.7	6.4	4.6	11.5			
										2	27.6	7.8	14.1	6.4	88.0	4.6	12.1							
Bottom	2.6			1					27.3	7.8	14.2	6.6	90.4	4.6	11.1									
				2					27.2	7.8	14.2	6.7	90.9	4.6	11.0									

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
10-06-20	Mid-Ebb	TCE-C1	Fine	Moderate	14:32	8.0	Surface	1.0	1	28.8	8.2	7.2	6.6	89.5	3.9	3.9	5.6	5.0	4.2
									2	28.8	8.2	7.2	6.7	89.6	3.9	4.9			
							Middle	4.0	1	27.5	8.3	15.4	4.6	63.1	4.6	4.6			
									2	27.5	8.3	15.8	4.5	62.7	4.6	3.9			
							Bottom	7.0	1	25.3	8.2	31.2	4.5	65.1	6.5	4.1			
									2	25.3	8.2	31.2	4.5	65.4	6.3	3.9			
		TCE-C2	Fine	Moderate	16:23	12.6	Surface	1.0	1	28.6	8.3	7.9	6.9	92.8	5.3	6.7	5.7	4.6	8.0
									2	27.9	8.3	8.0	7.0	93.7	5.5	7.6			
							Middle	6.3	1	26.7	8.5	18.6	4.5	62.6	4.3	8.2			
									2	26.6	8.5	18.6	4.5	62.4	4.3	7.4			
							Bottom	11.6	1	25.9	8.4	27.2	4.5	64.1	4.2	9.4			
									2	25.9	8.4	27.2	4.5	64.3	4.2	8.8			
		TCE-WQM1	Fine	Moderate	15:11	7.9	Surface	1.0	1	28.8	8.2	10.4	5.9	81.3	4.5	5.4	5.5	6.4	6.1
									2	28.8	8.2	10.4	5.9	81.3	4.5	6.0			
							Middle	4.0	1	27.7	8.3	14.8	5.0	69.1	6.4	5.7			
									2	27.7	8.3	14.7	5.0	69.1	6.5	6.3			
							Bottom	6.9	1	26.5	8.1	23.4	5.0	71.3	8.1	6.2			
									2	26.6	8.1	23.4	5.1	72.0	8.4	6.7			
		TCE-WQM2a	Fine	Moderate	15:49	7.9	Surface	1.0	1	28.9	8.1	10.7	5.8	80.3	4.1	6.4	5.6	5.6	6.4
									2	28.9	8.1	10.7	5.8	80.3	4.1	6.9			
							Middle	4.0	1	27.8	8.2	12.2	5.4	74.0	6.0	6.5			
									2	27.8	8.2	12.2	5.4	74.1	6.1	6.0			
							Bottom	6.9	1	27.4	8.1	19.7	5.5	78.1	6.9	6.5			
									2	27.5	8.1	19.7	5.6	78.6	6.6	6.0			
TCE-WQM2b	Fine	Moderate	16:02	11.2	Surface	1.0	1	28.9	8.2	6.7	5.4	73.0	6.6	7.2	5.1	8.9	6.7		
							2	28.9	8.2	6.7	5.4	72.9	6.6	7.9					
					Middle	5.6	1	27.6	8.4	13.8	4.7	64.4	10.0	6.9					
							2	27.6	8.4	13.7	4.7	64.4	10.0	6.1					
					Bottom	10.2	1	25.8	8.4	27.9	4.3	61.7	10.2	5.6					
							2	25.8	8.3	27.9	4.3	61.9	10.2	6.4					
TCE-WQM3A	Fine	Calm	15:37	4.1	Surface	1.0	1	28.9	8.1	9.4	5.6	75.8	5.1	4.1	5.6	6.6	5.0		
							2	28.9	8.1	9.3	5.6	75.9	5.2	5.1					
					Bottom	3.1	1	28.1	8.1	11.6	5.8	78.7	8.0	5.1					
							2	28.1	8.1	11.6	5.8	79.1	8.0	5.6					
					Surface	1.0	1	29.0	8.2	9.3	6.1	83.3	5.2	5.4					
							2	28.9	8.2	9.3	6.1	82.9	5.5	4.6					
TCE-WQM4	Fine	Calm	15:26	3.9	Surface	1.0	1	28.3	8.2	11.7	6.1	83.6	7.2	5.6	6.1	6.3	5.2		
							2	28.3	8.2	11.7	6.1	83.8	7.3	5.3					
					Bottom	2.9	1	28.3	8.2	11.7	6.1	83.6	7.2	5.6					
							2	28.3	8.2	11.7	6.1	83.8	7.3	5.3					
					Surface	1.0	1	28.5	8.2	7.0	5.7	76.2	4.6	4.4					
							2	28.6	8.2	7.3	5.7	76.2	4.6	3.4					
10-06-20	Mid-Flood	TCE-C1	Fine	Moderate	10:12	8.2	Surface	1.0	1	28.5	8.2	7.0	5.7	76.2	4.6	4.4	4.8	5.9	5.4
									2	28.6	8.2	7.3	5.7	76.2	4.6	3.4			
							Middle	4.1	1	26.2	8.5	23.9	3.9	55.8	5.2	5.5			
									2	26.2	8.5	23.6	4.0	55.7	5.3	5.7			
							Bottom	7.2	1	25.2	8.3	31.8	4.3	62.8	8.0	5.7			
									2	25.2	8.3	31.8	4.3	63.1	7.8	5.7			
		TCE-C2	Fine	Moderate	8:06	12.7	Surface	1.0	1	28.5	8.0	8.9	5.8	79.1	2.8	6.2	5.0	4.4	5.4
									2	28.5	8.0	9.0	5.8	79.0	2.8	5.5			
							Middle	6.4	1	25.7	8.2	25.3	4.2	58.9	4.3	5.8			
									2	25.7	8.1	25.3	4.2	59.0	4.4	5.2			
							Bottom	11.7	1	24.8	8.0	33.1	4.1	59.1	6.0	4.6			
									2	24.8	8.0	33.2	4.1	59.2	6.0	5.1			
		TCE-WQM1	Fine	Moderate	9:21	8.0	Surface	1.0	1	28.4	8.3	11.5	5.9	80.2	6.6	7.4	5.7	8.7	8.0
									2	28.4	8.3	11.5	5.9	80.2	5.8	7.7			
							Middle	4.0	1	28.0	8.4	12.4	5.6	76.6	8.7	7.6			
									2	28.0	8.4	12.4	5.6	76.5	8.8	7.1			
							Bottom	7.0	1	27.8	8.3	14.7	5.7	78.8	11.0	8.7			
									2	27.8	8.3	14.7	5.7	79.1	11.1	9.5			
		TCE-WQM2a	Fine	Moderate	8:48	6.9	Surface	1.0	1	28.1	8.5	10.0	5.3	72.0	6.6	15.6	5.2	4.5	14.5
									2	28.1	8.5	10.0	5.3	72.0	6.6	15.4			
							Middle	3.5	1	27.6	8.5	14.6	5.1	69.4	4.0	15.1			
									2	27.6	8.5	14.7	5.1	69.4	4.0	14.3			
							Bottom	5.9	1	26.0	8.4	27.8	5.0	72.6	2.9	13.8			
									2	26.0	8.4	27.9	5.1	72.9	3.0	12.8			
TCE-WQM2b	Fine	Moderate	8:35	11.3	Surface	1.0	1	28.6	8.3	5.6	75.4	4.3	4.8	5.0	7.1	4.9			
							2	28.6	8.3	5.6	75.4	4.3	4.6						
					Middle	5.7	1	26.5	8.5	21.1	4.4	61.2	8.5				4.3		
							2	26.5	8.5	21.2	4.4	61.1	8.5				5.3		
					Bottom	10.3	1	25.6	8.5	29.4	4.4	63.2	8.6				5.4		
							2	25.6	8.5	29.4	4.4	63.6	8.6				5.1		
TCE-WQM3A	Fine	Calm	8:59	4.2	Surface	1.0	1	28.1	8.4	8.8	5.7	77.1	9.6	11.7	5.8	9.9	10.0		
							2	28.1	8.4	8.8	5.8	77.4	9.6	10.8					
					Bottom	3.2	1	27.9	8.4	10.0	6.4	86.8	10.2	9.2					
							2	28.0	8.4	10.0	6.5	87.3	10.2	8.3					
					Surface	1.0	1	28.8	8.3	8.8	6.1	83.4	4.7	6.4					
							2	28.8	8.3	8.8	6.2	83.6	4.7	5.6					
TCE-WQM4	Fine	Calm	9:09	3.7	Surface	1.0	1	28.4	8.4	9.5	6.6	89.7	5.0	6.8	6.1	4.8	6.3		
							2	28.4	8.4	9.5	6.6	89.7	5.0	6.8					
					Bottom	2.7	1	28.4	8.4	9.5	6.6	89.7	5.0	6.8					
							2	28.4	8.4	9.5	6.6	89.7	5.0	6.8					
					Surface	1.0	1	28.8	8.4	9.5	6.6	90.0	4.8	6.2					
							2	28.8	8.4	9.5	6.6	90.0	4.8	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)								
12-06-20	Mid-Ebb	TCE-C1	Sunny	Moderate	16:06	8.2	Surface	1.0	1	28.8	7.8	6.6	5.2	69.5	8.0	5.9	4.2	7.5	5.3								
									2	28.8	7.8	6.7	5.2	69.8	8.0	5.6											
							Middle	4.1	1	25.7	7.9	26.1	3.3	46.3	6.4	5.4											
									2	25.7	7.9	25.3	3.3	45.8	6.4	5.2											
							Bottom	7.2	1	24.7	7.9	31.7	2.6	38.1	8.1	4.9											
									2	24.7	7.9	31.7	2.7	38.2	8.1	5.0											
		TCE-C2	Sunny	Moderate	17:59	11.9	Surface	1.0	1	28.8	7.9	8.7	5.4	73.3	6.0	3.8	4.8	7.4	4.5								
									2	28.8	7.9	8.7	5.4	72.8	6.1	4.1											
							Middle	6.0	1	27.0	7.9	18.5	4.3	59.4	7.8	4.9											
									2	27.0	7.9	18.6	4.3	59.2	7.5	4.6											
							Bottom	10.9	1	25.6	7.9	26.9	3.9	55.1	8.7	5.1											
									2	25.6	7.9	26.9	3.9	55.1	8.4	4.7											
		TCE-WQM1	Sunny	Moderate	16:46	9.1	Surface	1.0	1	29.8	8.1	9.4	6.5	90.7	7.6	5.7	4.7	8.5	4.5								
									2	29.8	8.1	9.4	6.4	89.0	7.5	5.3											
							Middle	4.6	1	26.0	7.8	24.7	2.9	41.4	8.3	4.5											
									2	26.0	7.8	24.7	2.9	41.3	8.1	4.2											
							Bottom	8.1	1	25.9	7.7	25.7	3.1	43.8	9.5	3.4											
									2	25.9	7.7	25.7	3.1	44.1	9.6	3.6											
		TCE-WQM2a	Sunny	Moderate	17:25	7.4	Surface	1.0	1	29.5	8.1	8.7	6.7	92.0	6.7	4.0	5.9	7.6	5.2								
									2	29.5	8.1	8.7	6.7	92.0	6.7	4.1											
							Middle	3.7	1	28.1	7.9	14.3	5.1	70.5	8.2	5.2											
									2	28.1	7.9	14.1	5.1	71.1	8.1	5.4											
							Bottom	6.4	1	26.4	7.8	24.0	4.1	58.0	7.9	6.0											
									2	26.4	7.8	24.3	4.1	58.1	7.9	6.5											
		TCE-WQM2b	Sunny	Moderate	17:36	10.8	Surface	1.0	1	28.6	7.7	6.6	5.2	69.4	9.7	4.4	4.5	8.4	5.3								
									2	28.5	7.7	6.6	5.2	69.3	9.6	4.6											
							Middle	5.4	1	26.7	7.9	19.2	3.8	53.4	7.1	4.5											
									2	26.7	7.9	19.3	3.8	53.3	7.2	4.6											
							Bottom	9.8	1	25.3	7.9	28.5	3.7	52.2	8.4	6.8											
									2	25.3	7.9	28.5	3.7	52.5	8.5	7.0											
		TCE-WQM3A	Sunny	Calm	17:15	3.3	Surface	1.0	1	29.8	8.0	8.1	6.8	93.2	11.1	4.0	6.8	12.3	4.5								
									2	29.8	8.0	8.0	6.8	93.5	11.3	3.8											
							Bottom	2.3	1	29.5	7.9	8.7	5.7	78.9	13.2	5.3											
									2	29.5	7.8	8.8	5.6	76.4	13.6	4.7											
							TCE-WQM4	Sunny	Calm	17:02	3.0	Surface	1.0	1	29.3	7.9				9.1	6.5	88.8	6.7	5.9	6.5	7.8	6.5
													2	29.3	7.9	9.0				6.5	89.4	6.9	5.9				
		Bottom	2.0	1	29.0	7.7	9.1					5.7	78.6	8.8	7.0												
				2	29.1	7.7	9.1					5.7	78.0	9.0	7.1												
		TCE-C1	Sunny	Moderate	12:24	8.0	Surface					1.0	1	27.6	7.7	6.9	4.5	59.1	7.5	5.0	3.9	8.3	4.8				
												2	27.6	7.7	6.9	4.5	58.8	7.3	5.1								
		Middle					4.0	1	25.2	7.8	27.9	3.3	46.7	7.9	4.9												
								2	25.1	7.8	27.9	3.3	46.6	8.9	5.4												
		Bottom					7.0	1	25.0	7.7	31.5	2.8	40.6	9.2	4.4												
								2	25.0	7.7	31.5	2.8	40.9	9.1	4.1												
		TCE-C2	Sunny	Calm	10:05	11.9	Surface	1.0	1	28.3	7.8	7.5	5.1	68.0	6.8	4.0	4.7	5.2	5.4								
									2	28.3	7.8	8.0	5.1	68.0	6.7	4.3											
							Middle	6.0	1	26.8	7.9	20.1	4.4	61.2	5.1	5.2											
									2	26.8	7.9	20.0	4.3	60.8	4.8	5.3											
Bottom	10.9						1	24.8	7.9	31.5	3.7	53.7	3.8	6.8													
							2	24.8	7.9	31.5	3.7	53.8	3.8	6.6													
TCE-WQM1	Sunny	Moderate	11:25	9.3	Surface	1.0	1	29.0	7.8	7.8	5.9	79.6	5.0	6.1	5.6	6.8	6.7										
							2	29.0	7.8	7.8	5.9	79.7	5.1	6.5													
					Middle	4.7	1	28.5	7.8	10.0	5.3	71.7	7.1	6.9													
							2	28.5	7.8	10.0	5.3	71.6	7.1	6.7													
					Bottom	8.3	1	26.2	7.6	23.3	3.2	45.0	8.3	7.2													
							2	26.2	7.6	23.3	3.2	45.4	8.1	7.0													
TCE-WQM2a	Sunny	Moderate	10:43	7.1	Surface	1.0	1	28.6	7.7	7.3	5.7	77.2	6.6	6.2	5.4	6.3	7.3										
							2	28.6	7.7	7.3	5.7	77.2	6.6	6.5													
					Middle	3.6	1	28.3	7.7	10.0	5.1	68.5	7.6	7.3													
							2	28.2	7.7	9.9	5.1	68.6	7.2	7.0													
					Bottom	6.1	1	27.3	7.6	16.3	4.3	59.0	5.0	8.3													
							2	27.3	7.6	16.6	4.2	58.8	5.0	8.2													
TCE-WQM2b	Sunny	Moderate	10:30	11.6	Surface	1.0	1	28.2	7.7	7.4	4.9	65.8	8.2	8.2	4.5	7.5	7.5										
							2	28.1	7.7	7.4	4.9	65.3	8.2	8.2													
					Middle	5.8	1	27.1	7.9	18.2	4.1	56.4	5.8	7.5													
							2	27.1	7.9	18.0	4.1	56.4	6.0	7.2													
					Bottom	10.6	1	24.8	7.9	31.2	3.5	50.9	8.4	6.9													
							2	24.8	7.8	31.2	3.5	51.0	8.4	7.2													
TCE-WQM3A	Sunny	Calm	10:56	3.2	Surface	1.0	1	29.1	7.7	6.9	6.1	82.1	6.3	13.1	6.1	6.5	11.9										
							2	29.1	7.6	6.9	6.1	81.9	6.4	13.3													
					Bottom	2.2	1	29.0	7.6	7.0	6.1	82.5	6.7	10.9													
							2	29.0	7.6	7.0	6.1	83.0	6.6	10.4													
					TCE-WQM4	Sunny	Calm	11:10	3.2	Surface	1.0	1	28.5	7.6				8.6	5.3	71.0	9.5	4.8	5.2	10.8	5.6		
											2	28.5	7.6	8.5				5.2	70.6	10.0	5.3						
Bottom	2.2	1	28.3	7.5	10.3					5.0	68.4	11.8	6.0														
		2	28.3	7.5	10.3					5.0	68.5	11.9	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)					
15-06-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	10:38	7.7	Surface	1.0	1	27.2	8.2	6.5	7.0	91.1	7.5	4.7	6.0	10.3	4.7					
							Middle	3.9	1	26.4	8.1	19.3	5.1	70.8	10.7	5.0								
							Bottom	6.7	1	26.0	8.0	22.8	4.1	57.3	12.7	4.1								
		TCE-C2	Cloudy	Moderate	8:23	12.8	Surface	1.0	1	27.2	8.1	11.4	6.4	85.6	4.7	3.0	5.9	4.6	3.8					
							Middle	6.4	1	27.0	8.0	16.6	5.3	73.4	4.8	3.7								
							Bottom	11.8	1	25.1	7.9	29.6	3.7	53.0	4.4	4.9								
		TCE-WQM1	Cloudy	Calm	9:44	8.1	Surface	1.0	1	27.5	8.4	12.2	8.1	109.7	6.5	7.2	7.4	7.7	7.9					
							Middle	4.1	1	27.2	8.2	16.7	6.7	92.9	7.2	8.3								
							Bottom	7.1	1	26.8	8.0	21.3	4.6	64.4	9.4	8.2								
		TCE-WQM2a	Cloudy	Moderate	9:07	6.9	Surface	1.0	1	27.4	8.3	12.3	7.7	104.8	5.1	6.1	7.0	4.7	6.3					
							Middle	3.5	1	27.0	8.1	15.8	6.3	86.8	4.8	6.0								
							Bottom	5.9	1	26.8	8.0	20.9	5.7	80.2	4.2	6.7								
		TCE-WQM2b	Cloudy	Moderate	8:56	11.2	Surface	1.0	1	26.9	8.0	7.7	6.4	83.6	7.5	5.1	5.8	7.7	4.2					
							Middle	5.6	1	26.9	8.0	17.0	5.1	70.5	5.2	4.1								
							Bottom	10.2	1	25.3	7.9	28.9	3.1	44.2	10.7	3.4								
		TCE-WQM3A	Cloudy	Calm	9:20	4.1	Surface	1.0	1	27.7	8.3	13.6	7.4	101.1	6.4	5.2	7.4	8.5	6.3					
							Bottom	3.1	1	27.5	8.1	16.4	5.6	77.5	10.5	7.4								
		TCE-WQM4	Cloudy	Calm	9:32	3.2	Surface	1.0	1	27.6	8.4	11.8	8.3	112.5	6.6	6.2	8.3	6.2	5.7					
							Bottom	2.2	1	27.6	8.4	12.7	8.2	110.9	6.1	5.5								
		15-06-20	Mid-Flood	TCE-C1	Fine	Moderate	13:16	7.9	Surface	1.0	1	27.1	8.0	9.6	6.4	84.1	7.1	3.0	6.2	6.8	4.1			
									Middle	4.0	1	26.8	8.1	15.6	6.0	81.9	6.5	4.4						
									Bottom	6.9	1	26.3	8.1	20.2	4.7	65.2	6.7	4.8						
TCE-C2	Fine			Moderate	15:14	12.6	Surface	1.0	1	27.6	8.2	9.9	7.7	102.8	5.9	4.7	6.7	5.2	5.3					
							Middle	6.3	1	27.0	8.1	15.9	5.8	79.7	4.4	5.3								
							Bottom	11.6	1	25.4	8.0	27.9	3.9	55.2	5.4	5.5								
TCE-WQM1	Fine			Calm	14:00	7.8	Surface	1.0	1	27.5	8.4	13.2	8.6	117.6	9.5	9.8	7.5	10.0	10.5					
							Middle	3.9	1	27.2	8.2	16.9	6.3	87.0	10.0	10.5								
							Bottom	6.8	1	26.6	8.1	20.4	4.8	67.5	10.3	11.0								
TCE-WQM2a	Fine			Moderate	14:35	7.0	Surface	1.0	1	28.2	8.6	11.4	10.0	137.0	6.3	6.0	9.1	7.8	7.3					
							Middle	3.5	1	27.5	8.4	13.6	8.2	111.5	7.7	6.8								
							Bottom	6.0	1	27.0	8.2	18.2	6.2	86.1	9.4	8.6								
TCE-WQM2b	Fine			Moderate	14:46	11.0	Surface	1.0	1	28.2	8.1	7.9	7.0	94.2	7.8	5.0	5.9	7.2	5.7					
							Middle	5.5	1	26.6	8.0	17.4	4.8	65.9	6.1	5.7								
							Bottom	10.0	1	26.2	7.9	27.6	3.7	53.5	7.7	6.0								
TCE-WQM3A	Fine			Calm	14:24	4.0	Surface	1.0	1	28.5	8.6	11.9	10.4	143.7	4.9	6.0	10.4	10.4	6.4					
							Bottom	3.0	1	27.6	8.2	15.6	5.9	82.0	15.9	7.0								
TCE-WQM4	Fine			Calm	14:14	3.1	Surface	1.0	1	28.2	8.6	11.2	10.3	140.2	5.8	5.8	10.3	6.3	6.6					
							Bottom	2.1	1	28.0	8.5	11.5	10.0	135.8	6.6	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)					
19-06-20	Mid-Ebb	TCE-C1	Sunny	Moderate	12:56	7.4	Surface	1.0	1	29.2	8.0	5.8	7.7	103.6	5.5	4.0	7.4	5.6	4.4					
									2	29.1	8.0	5.8	7.7	103.4	5.5	4.3								
							Middle	3.7	1	28.6	7.9	8.2	7.1	94.8	5.7	4.4								
									2	28.5	7.9	8.2	7.0	94.6	5.7	4.3								
				Bottom	6.4	1	27.6	7.8	12.6	4.4	59.7	5.5	4.4	4.4										
						2	27.6	7.8	12.5	4.4	59.9	5.8	4.8											
		TCE-C2	Sunny	Moderate	10:35	11.2	Surface	1.0	1	28.5	7.9	11.5	7.0				96.6	3.3	4.2	6.7	2.7	3.9		
									2	28.4	7.8	11.6	7.0				96.2	3.2	4.1					
							Middle	5.6	1	28.0	7.8	13.8	6.3	87.5	2.8	3.9								
									2	27.9	7.8	13.8	6.3	87.3	2.7	3.8								
				Bottom	10.2	1	26.7	7.7	21.7	4.9	69.0	2.0	3.6	4.9										
						2	26.8	7.7	21.3	5.0	69.7	2.0	3.7											
		TCE-WQM1	Sunny	Moderate	11:50	8.1	Surface	1.0	1	28.5	8.0	12.3	6.5				89.2	5.2	5.7	5.6	7.1	5.0		
									2	28.4	8.0	12.7	6.4				88.6	5.4	5.4					
							Middle	4.1	1	27.4	7.8	15.9	4.8	66.8	7.3	5.3								
									2	27.3	7.8	16.0	4.8	65.8	7.4	5.0								
				Bottom	7.1	1	26.1	7.6	23.8	3.1	43.7	8.8	4.5	3.1										
						2	26.1	7.6	23.9	3.1	43.8	8.6	4.2											
		TCE-WQM2a	Sunny	Moderate	11:16	7.1	Surface	1.0	1	28.7	8.0	12.8	7.1				99.0	4.8	3.3	6.9	6.5	4.2		
									2	28.7	8.0	12.8	7.1				99.0	4.8	3.6					
							Middle	3.6	1	28.2	7.9	13.8	6.8	93.5	7.1	4.0								
									2	28.1	7.9	13.9	6.7	92.9	7.5	4.2								
				Bottom	6.1	1	27.7	7.9	16.0	6.2	85.4	7.4	5.3	6.2										
						2	27.8	7.9	16.0	6.2	85.8	7.3	5.0											
		TCE-WQM2b	Sunny	Moderate	11:04	10.8	Surface	1.0	1	28.3	7.8	8.9	6.8				92.1	4.5	2.9	6.2	4.7	3.5		
									2	28.2	7.8	9.0	6.8				91.3	4.4	3.2					
							Middle	5.4	1	27.8	7.8	13.2	5.6	76.7	4.5	3.7								
									2	27.8	7.8	13.2	5.6	76.5	4.5	3.5								
				Bottom	9.8	1	25.4	7.7	27.8	3.4	48.2	5.3	3.7	3.4										
						2	25.4	7.7	27.8	3.4	48.4	5.2	3.8											
		TCE-WQM3A	Sunny	Calm	11:28	3.2	Surface	1.0	1	28.1	7.8	14.2	5.8				80.4	15.5	16.1	5.8	16.3	18.3		
									2	28.1	7.8	14.2	5.8				80.3	15.6	16.4					
							Bottom	2.2	1	27.7	7.8	15.9	5.5	76.1	17.0	20.2								
									2	27.7	7.8	15.9	5.5	76.4	17.1	20.6								
		TCE-WQM4	Sunny	Calm	11:38	3.1	Surface	1.0	1	29.1	8.1	11.6	7.5	104.4	4.6	4.9	7.5	5.2	4.6					
									2	29.0	8.0	11.7	7.5	104.3	4.9	4.6								
							Bottom	2.1	1	28.8	8.0	11.8	7.2	99.4	5.7	4.4								
									2	28.8	8.0	11.8	7.2	99.4	5.7	4.6								
		19-06-20	Mid-Flood	TCE-C1	Sunny	Moderate	17:02	7.5	Surface	1.0	1	28.7	7.8	12.1	6.2	86.1	6.4	10.0	5.5	8.8	10.3			
											2	28.7	7.8	12.2	6.2	85.6	6.4	9.6						
									Middle	3.8	1	27.3	7.7	17.3	4.7	65.6	11.4	10.3						
											2	27.3	7.7	17.2	4.7	65.7	11.4	10.0						
						Bottom	6.5	1	25.6	7.6	26.9	2.8	40.4	8.7	10.7	2.8								
								2	25.6	7.6	26.9	2.9	40.6	8.8	11.0									
				TCE-C2	Sunny	Moderate	18:53	11.2	Surface	1.0	1	28.2	7.9	14.7	6.2				86.3	4.3	3.2	4.9	4.7	4.3
											2	28.2	7.9	14.7	6.2				86.0	4.3	3.3			
									Middle	5.6	1	25.7	7.7	26.1	3.6	50.3	4.7	4.3						
											2	25.6	7.7	26.1	3.5	50.2	4.8	4.0						
				Bottom	10.2	1	25.4	7.7	28.7	3.6	51.7	5.1	5.2	3.6										
						2	25.4	7.7	28.7	3.7	52.4	5.1	5.6											
TCE-WQM1	Sunny			Moderate	17:41	8.1	Surface	1.0	1	29.5	8.1	12.6	8.5				119.2	8.0	7.9	8.1	8.5	9.3		
									2	29.4	8.1	12.5	8.5				118.6	8.8	8.1					
							Middle	4.1	1	29.2	8.1	13.5	7.7	108.6	7.9	9.7								
									2	29.1	8.1	13.6	7.7	108.1	8.0	9.9								
				Bottom	7.1	1	28.2	8.0	16.4	6.2	87.3	9.2	10.3	6.2										
						2	28.2	8.0	16.4	6.2	87.6	9.2	10.1											
TCE-WQM2a	Sunny			Moderate	18:13	7.0	Surface	1.0	1	29.0	8.0	12.5	7.5				104.5	4.3	4.1	7.0	6.4	3.7		
									2	29.0	8.0	12.5	7.5				104.5	4.3	3.9					
							Middle	3.5	1	28.1	7.8	13.6	6.6	91.0	6.6	3.6								
									2	27.9	7.8	13.6	6.6	90.3	7.0	3.6								
				Bottom	6.0	1	27.5	7.8	16.1	5.7	78.6	8.1	3.4	5.7										
						2	27.6	7.8	16.2	5.6	78.2	8.1	3.5											
TCE-WQM2b	Sunny			Moderate	18:24	10.4	Surface	1.0	1	28.7	7.9	10.8	6.9				95.3	4.4	3.0	6.1	5.8	3.7		
									2	28.6	7.9	10.9	6.9				94.9	4.5	3.5					
							Middle	5.2	1	27.3	7.7	15.6	5.4	74.2	5.1	3.8								
									2	27.1	7.7	15.7	5.3	72.9	5.1	3.6								
				Bottom	9.4	1	26.3	7.7	22.5	4.2	59.7	7.7	4.4	4.3										
						2	26.3	7.7	22.5	4.3	60.1	7.8	4.1											
TCE-WQM3A	Sunny			Calm	18:03	3.2	Surface	1.0	1	29.3	8.1	12.7	8.3				116.8	10.8	8.1	8.3	12.0	7.4		
									2	29.2	8.1	12.8	8.3				116.0	11.5	8.5					
							Bottom	2.2	1	29.2	8.1	12.8	7.8	108.5	13.1	6.4								
									2	29.2	8.1	12.8	7.8	109.0	12.5	6.5								
TCE-WQM4	Sunny			Calm	17:53	3.0	Surface	1.0	1	28.9	8.0	12.5	7.6	105.7	15.1	12.9	7.6	16.8	12.6					
									2	28.9	8.0	12.5	7.6	105.7	15.1	13.4								
							Bottom	2.0	1	28.9	8.0	12.6	7.7	106.7	18.6	11.9								
									2	28.9	8.0	12.6	7.7	106.9	18.6	12.2								

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)					
24-06-20	Mid-Ebb	TCE-C1	Cloudy	Rough	13:27	7.9	Surface	1.0	1	28.6	7.8	16.1	6.1	86.1	3.8	4.5	5.0	4.7	4.7					
									2	28.6	7.8	16.1	6.0	85.4	3.9	4.4								
							Middle	4.0	1	26.3	7.6	24.5	3.9	55.3	4.2	4.8								
									2	26.3	7.6	24.5	3.8	54.6	4.3	4.7								
				Bottom	6.9	1	24.6	7.6	30.9	2.5	36.4	6.2	4.8	2.6										
						2	24.6	7.6	30.8	2.6	36.7	6.0	5.1											
		TCE-C2	Cloudy	Moderate	16:02	11.3	Surface	1.0	1	28.6	7.9	16.8	6.6				93.8	2.5	3.4	6.2	4.0	3.6		
								2	28.6	7.9	16.8	6.6	93.4				2.6	3.1						
		Middle					5.7	1	28.3	7.8	17.5	5.9	83.0	4.2	3.8									
								2	28.3	7.8	17.5	5.8	82.1	4.5	3.6									
				Bottom	10.3	1	27.0	7.8	24.2	4.9	69.8	5.1	3.7	4.9										
						2	27.0	7.8	24.2	4.9	70.5	5.1	3.9											
		TCE-WQM1	Cloudy	Moderate	14:48	8.6	Surface	1.0	1	28.5	7.9	17.1	6.6				93.3	4.2	5.0	5.8	6.6	5.9		
								2	28.5	7.9	17.1	6.6	93.0				4.4	4.8						
		Middle					4.3	1	27.6	7.7	19.4	5.0	71.2	6.7	5.0									
								2	27.7	7.7	19.3	5.0	71.1	6.7	5.2									
				Bottom	7.6	1	26.9	7.7	22.3	4.2	59.3	8.9	8.0	4.2										
						2	26.9	7.7	22.3	4.2	59.5	8.7	7.6											
		TCE-WQM2a	Cloudy	Moderate	15:25	7.0	Surface	1.0	1	28.6	7.9	18.5	6.9				98.7	6.2	5.9	6.5	6.3	6.6		
								2	28.6	7.9	18.5	6.9	98.7				6.2	5.7						
		Middle					3.5	1	27.9	7.9	19.9	6.1	86.7	7.0	6.4									
								2	27.8	7.8	20.1	6.1	86.6	6.7	6.8									
				Bottom	6.0	1	27.5	7.8	21.2	5.7	81.6	5.9	7.6	5.7										
						2	27.5	7.9	21.3	5.7	81.4	6.0	7.3											
		TCE-WQM2b	Cloudy	Moderate	15:38	10.0	Surface	1.0	1	29.0	7.8	15.4	6.7				94.2	3.4	4.5	6.2	6.2	6.0		
								2	28.9	7.8	15.5	6.7	93.9				3.8	4.4						
		Middle					5.0	1	28.2	7.8	17.7	5.8	82.0	5.9	6.6									
								2	28.2	7.8	17.8	5.8	81.8	6.2	6.2									
				Bottom	9.0	1	28.0	7.8	18.2	5.7	80.7	9.0	7.3	5.7										
						2	28.0	7.8	18.2	5.7	80.8	9.0	7.1											
		TCE-WQM3A	Cloudy	Moderate	15:10	3.2	Surface	1.0	1	28.8	8.0	17.7	6.8				96.7	9.3	11.4	6.8	10.6	12.8		
								2	28.8	8.0	17.6	6.8	96.6				9.6	11.2						
		Bottom					2.2	1	28.2	7.9	19.0	5.9	84.2	11.8	14.1									
								2	28.2	7.9	18.9	5.9	84.5	11.7	14.4									
		TCE-WQM4	Cloudy	Moderate	15:00	3.6	Surface	1.0	1	29.1	8.1	16.8	8.1	115.7	4.0	5.1	8.1	5.3	6.1					
								2	29.0	8.1	16.7	8.1	115.1	3.7	4.7									
		Bottom					2.6	1	28.4	7.9	18.0	6.4	90.7	6.9	7.2									
								2	28.4	7.9	18.0	6.4	90.6	6.5	7.3									
		24-06-20	Mid-Flood	TCE-C1	Cloudy	Rough	9:08	8.0	Surface	1.0	1	27.9	7.8	17.7	5.5	77.6	5.0	5.4	4.0	5.3	5.7			
											2	27.9	7.8	17.5	5.6	78.1	4.9	5.0						
									Middle	4.0	1	24.5	7.6	30.9	2.4	34.9	5.1	5.3						
											2	24.5	7.6	31.0	2.4	34.9	5.1	5.5						
						Bottom	7.0	1	24.4	7.7	31.4	2.6	37.2	5.8	6.3	2.6								
								2	24.4	7.7	31.4	2.7	37.9	5.9	6.5									
				TCE-C2	Cloudy	Moderate	7:00	11.2	Surface	1.0	1	27.8	7.7	18.5	5.6				78.6	3.6	4.4	5.0	3.9	4.2
										2	27.7	7.7	18.6	5.6	78.2				3.8	4.5				
				Middle					5.6	1	26.5	7.7	24.5	4.5	64.6	5.3	4.2							
										2	26.5	7.7	24.4	4.5	64.5	4.9	4.3							
				Bottom	10.2	1	25.2	7.6	29.3	3.9	56.0	3.1	3.8	3.9										
						2	25.2	7.7	29.3	3.9	56.2	3.0	4.1											
TCE-WQM1	Cloudy			Moderate	8:14	8.6	Surface	1.0	1	28.5	7.9	17.2	6.4				91.0	5.7	4.2	6.4	6.5	5.0		
								2	28.5	7.9	17.2	6.4	90.6				5.8	4.1						
Middle							4.3	1	28.5	7.9	17.3	6.3	89.9	6.1	5.0									
								2	28.5	7.9	17.3	6.3	89.9	5.9	5.3									
				Bottom	7.6	1	27.6	7.8	20.3	5.0	70.9	7.9	5.9	5.0										
						2	27.6	7.8	20.3	5.0	71.3	7.5	5.6											
TCE-WQM2a	Cloudy			Moderate	7:40	7.1	Surface	1.0	1	28.4	7.8	16.2	6.2				87.7	3.6	4.2	6.0	3.6	4.4		
								2	28.4	7.8	16.2	6.2	87.7				3.6	4.1						
Middle							3.6	1	28.1	7.8	17.6	5.9	82.5	3.5	5.3									
								2	28.1	7.8	17.5	5.9	82.6	3.4	5.0									
				Bottom	6.1	1	27.7	7.8	19.4	5.6	79.9	3.9	3.7	5.6										
						2	27.8	7.8	19.4	5.7	80.2	3.9	3.8											
TCE-WQM2b	Cloudy			Moderate	7:28	10.0	Surface	1.0	1	28.2	7.8	16.3	5.7				80.5	3.7	4.8	5.4	5.2	4.4		
								2	28.2	7.8	16.3	5.7	80.4				3.9	4.6						
Middle							5.0	1	27.5	7.8	20.1	5.1	72.4	4.9	4.5									
								2	27.5	7.8	20.1	5.1	71.6	5.0	4.3									
				Bottom	9.0	1	25.5	7.8	28.6	4.2	59.6	6.8	4.2	4.2										
						2	25.4	7.8	28.6	4.2	60.0	6.7	3.9											
TCE-WQM3A	Cloudy			Calm	7:50	3.3	Surface	1.0	1	28.5	7.8	15.3	6.3				88.4	3.9	3.5	6.3	4.6	3.7		
								2	28.5	7.8	15.3	6.3	88.4				4.0	3.3						
Bottom							2.3	1	28.5	7.9	15.3	6.3	88.7	5.0	3.8									
								2	28.5	7.9	15.3	6.3	88.8	5.4	4.2									
TCE-WQM4	Cloudy			Calm	8:00	3.5	Surface	1.0	1	28.4	7.8	16.4	6.1	85.8	13.7	9.0	6.1	13.4	8.0					
								2	28.4	7.8	16.4	6.1	86.0	12.9	8.8									
Bottom							2.5	1	28.4	7.8	16.3	6.1	86.5	13.6	6.9									
								2	28.4	7.8	16.3	6.2	86.6	13.4	7.2									

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)					
26-06-20	Mid-Ebb	TCE-C1	Fine	Rough	14:59	8.2	Surface	1.0	1	28.2	7.9	19.9	6.5	92.9	1.9	3.0	5.9	3.5	2.6					
									2	28.2	7.9	19.9	6.5	92.7	1.8	2.7								
							Middle	4.1	1	27.7	7.8	20.7	5.4	77.3	3.4	2.5								
									2	27.7	7.8	20.7	5.4	76.9	3.4	2.7								
				Bottom	7.2	1	24.8	7.7	30.2	2.6	37.4	5.3	2.4	2.6										
						2	24.8	7.7	30.2	2.6	37.5	5.3	2.2											
		TCE-C2	Fine	Moderate	16:52	13.2	Surface	1.0	1	29.0	8.0	16.6	7.3				104.3	1.6	2.2	7.1	2.0	1.9		
									2	29.0	8.0	16.6	7.3				104.3	1.6	2.4					
							Middle	6.6	1	28.7	7.9	17.5	7.0	99.0	1.9	1.7								
									2	28.7	7.9	17.5	7.0	98.9	2.0	1.6								
				Bottom	12.2	1	28.2	7.9	19.2	6.5	92.7	2.3	1.7	6.5										
						2	28.2	7.9	19.2	6.5	92.7	2.4	1.8											
		TCE-WQM1	Fine	Calm	15:39	8.5	Surface	1.0	1	28.7	8.0	18.6	7.2				103.7	3.1	5.0	6.5	4.1	4.1		
									2	28.7	8.0	18.7	7.2				103.6	3.1	4.7					
							Middle	4.3	1	27.9	7.8	19.7	5.8	83.0	4.1	3.6								
									2	27.9	7.8	19.7	5.8	82.8	4.0	4.0								
				Bottom	7.5	1	27.1	7.7	22.4	4.4	62.2	5.2	3.6	4.4										
						2	27.1	7.7	22.4	4.4	62.3	5.1	3.7											
		TCE-WQM2a	Fine	Moderate	16:17	7.5	Surface	1.0	1	28.8	8.0	19.0	7.6				109.0	2.8	4.6	7.2	3.6	3.6		
									2	28.8	8.0	19.0	7.6				109.0	2.8	4.5					
							Middle	3.8	1	28.2	7.9	19.6	6.8	96.5	3.7	3.6								
									2	28.2	7.9	19.6	6.8	96.5	3.7	3.4								
				Bottom	6.5	1	27.7	7.9	21.1	6.1	86.7	4.4	2.6	6.1										
						2	27.7	7.9	21.1	6.1	86.5	4.4	2.9											
		TCE-WQM2b	Fine	Moderate	16:30	12.3	Surface	1.0	1	28.7	7.9	17.2	6.9				98.7	2.0	1.3	6.4	3.8	1.5		
									2	28.7	7.9	17.2	6.9				98.6	1.9	1.2					
							Middle	6.2	1	28.1	7.8	18.7	5.8	82.5	3.1	1.4								
									2	28.1	7.8	18.7	5.8	82.3	3.2	1.5								
				Bottom	11.3	1	26.6	7.8	24.2	4.6	65.9	6.2	1.8	4.6										
						2	26.6	7.8	24.4	4.6	66.2	6.2	1.9											
		TCE-WQM3A	Fine	Calm	16:06	4.0	Surface	1.0	1	28.5	7.9	18.5	6.6				94.3	10.1	11.7	6.6	12.3	13.9		
									2	28.5	7.9	18.5	6.6				94.2	10.2	12.0					
							Bottom	3.0	1	27.6	7.8	20.5	5.2	73.3	14.4	15.6								
									2	27.7	7.8	20.5	5.2	73.4	14.3	16.1								
		TCE-WQM4	Fine	Calm	15:55	3.3	Surface	1.0	1	29.0	8.1	18.4	8.3	118.9	3.2	4.9	8.3	3.7	4.4					
									2	29.0	8.1	18.4	8.3	118.7	3.3	5.3								
							Bottom	2.3	1	28.7	8.0	18.6	7.5	108.1	4.2	3.8								
									2	28.7	8.0	18.6	7.6	108.4	4.0	3.6								
		26-06-20	Mid-Flood	TCE-C1	Fine	Rough	10:16	8.3	Surface	1.0	1	28.0	7.9	19.8	6.4	91.1	2.0	2.7	4.8	5.3	2.9			
											2	28.0	7.9	19.8	6.4	91.1	2.0	2.4						
									Middle	4.2	1	25.2	7.7	29.1	3.1	45.0	5.3	3.0						
											2	25.2	7.7	29.2	3.1	44.9	5.3	2.7						
						Bottom	7.3	1	24.6	7.7	31.2	2.6	37.1	8.7	3.1	2.6								
								2	24.6	7.7	31.2	2.6	37.3	8.7	3.4									
				TCE-C2	Fine	Moderate	8:06	13.6	Surface	1.0	1	27.9	7.9	19.3	5.8				82.2	1.6	2.2	4.7	2.8	2.7
											2	27.9	7.9	19.3	5.8				82.0	1.6	2.1			
									Middle	6.8	1	25.5	7.9	28.3	3.6	51.6	2.5	2.9						
											2	25.4	7.9	28.3	3.6	51.6	2.6	2.6						
				Bottom	12.6	1	24.2	7.8	32.2	2.9	41.9	4.2	3.2	2.9										
						2	24.2	7.8	32.2	2.9	42.0	4.2	2.9											
TCE-WQM1	Fine			Calm	9:23	8.8	Surface	1.0	1	28.5	7.9	18.1	6.6				94.2	3.6	4.4	5.9	5.0	5.0		
									2	28.5	7.9	18.1	6.6				93.9	3.7	4.2					
							Middle	4.4	1	27.8	7.9	20.3	5.2	73.7	5.4	5.4								
									2	27.8	7.9	20.3	5.1	73.3	5.3	5.5								
				Bottom	7.8	1	27.0	7.8	22.8	4.1	57.7	5.9	5.2	4.0										
						2	27.0	7.8	22.9	4.0	57.7	6.0	5.0											
TCE-WQM2a	Fine			Moderate	8:46	7.7	Surface	1.0	1	28.4	7.9	17.6	6.7				94.5	3.1	2.3	6.0	3.6	2.3		
									2	28.4	7.9	17.6	6.7				94.5	3.1	2.5					
							Middle	3.9	1	27.6	7.8	20.5	5.3	75.0	2.6	2.3								
									2	27.6	7.8	20.5	5.3	74.9	2.6	2.1								
				Bottom	6.7	1	26.7	7.8	24.1	4.6	65.9	5.0	2.3	4.6										
						2	26.7	7.8	24.1	4.6	66.2	4.9	2.4											
TCE-WQM2b	Fine			Moderate	8:33	12.5	Surface	1.0	1	28.3	7.8	17.8	6.2				87.3	1.9	3.0	5.1	4.6	2.6		
									2	28.3	7.8	17.8	6.1				87.0	1.9	3.3					
							Middle	6.3	1	26.2	7.7	26.0	4.1	58.2	4.7	2.4								
									2	26.2	7.7	26.0	4.1	58.0	4.7	2.3								
				Bottom	11.5	1	24.9	7.7	30.1	3.5	50.6	7.3	2.3	3.5										
						2	24.9	7.7	30.1	3.5	50.8	7.2	2.1											
TCE-WQM3A	Fine			Calm	8:59	4.1	Surface	1.0	1	28.2	7.8	18.3	6.0				84.5	6.6	3.5	6.0	7.4	3.7		
									2	28.2	7.8	18.3	6.0				84.5	6.5	3.3					
							Bottom	3.1	1	27.9	7.8	19.2	5.6	80.1	8.2	4.0								
									2	27.9	7.8	19.2	5.7	80.2	8.3	4.1								
TCE-WQM4	Fine			Calm	9:10	3.4	Surface	1.0	1	28.4	7.9	17.7	6.7	95.7	3.9	5.6	6.7	3.9	5.1					
									2	28.4	7.9	17.7	6.7	95.5	3.9	5.1								
							Bottom	2.4	1	28.3	7.9	17.8	6.7	95.6	3.9	5.0								
									2	28.3	7.9	17.8	6.8	95.7	3.9	4.6								

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged						
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)				
29-06-20	Mid-Ebb	TCE-C1	Cloudy	Moderate	9:36	7.8	Surface	1.0	1	29.2	8.0	9.0	7.6	103.5	3.3	2.7	6.7	3.4	3.9				
									2	29.2	8.0	9.0	7.5	103.2	3.4	3.0							
							Middle	3.9	1	28.2	7.8	16.8	5.8	81.2	3.2	4.4							
									2	28.3	7.8	16.8	5.8	81.3	3.2	4.0							
				Bottom	6.8	1	27.6	7.8	20.3	5.4	76.3	3.7	4.7	5.4									
						2	27.6	7.8	20.3	5.4	76.3	3.8	4.5										
				TCE-C2	Cloudy	Moderate	7:33	13.4	Surface	1.0	1	29.0	8.0	13.6	7.1	99.7	2.6	4.1	6.6	2.4	3.8		
									2	28.9	8.0	13.6	7.1	99.6	2.5	4.3							
		Middle	6.7						1	27.7	7.9	20.6	6.1	86.5	1.8	3.8							
									2	27.6	7.9	20.7	6.1	86.0	1.9	3.9							
				Bottom	12.4	1	25.3	7.9	29.1	3.9	56.0	2.8	3.3	3.9									
						2	25.3	7.9	29.1	3.9	56.2	2.8	3.1										
				TCE-WQM1	Cloudy	Calm	8:50	8.3	Surface	1.0	1	29.0	8.0	16.7	7.4	105.1	4.0	5.5	6.1	8.1	6.0		
									2	29.0	8.0	16.7	7.4	104.7	4.3	5.7							
		Middle	4.2						1	27.4	7.8	22.1	4.9	70.3	9.5	6.0							
									2	27.3	7.8	22.1	4.9	70.2	9.5	6.3							
				Bottom	7.3	1	26.7	7.7	24.6	4.4	63.3	10.7	6.3	4.4									
						2	26.7	7.7	24.6	4.4	63.5	10.8	6.4										
				TCE-WQM2a	Cloudy	Moderate	8:15	6.8	Surface	1.0	1	29.1	8.1	15.8	8.3	118.2	2.7	6.0	8.0	4.6	5.2		
									2	29.1	8.1	15.8	8.3	118.2	2.7	5.8							
		Middle	3.4						1	28.8	8.1	17.2	7.7	109.4	4.0	5.0							
									2	28.8	8.1	17.2	7.7	109.4	4.3	5.0							
				Bottom	5.8	1	28.3	8.0	19.9	6.7	95.8	6.9	4.6	6.7									
						2	28.3	8.0	19.9	6.7	95.9	6.7	4.8										
				TCE-WQM2b	Cloudy	Moderate	8:03	11.5	Surface	1.0	1	29.5	8.0	10.1	7.1	98.6	3.8	4.5	6.2	4.8	3.9		
									2	29.4	8.0	10.0	7.1	98.3	3.8	4.4							
		Middle	5.8						1	28.0	7.8	19.9	5.2	74.8	4.8	3.7							
									2	28.1	7.8	18.5	5.3	74.7	4.8	3.6							
				Bottom	10.5	1	25.0	7.7	29.8	3.4	48.0	5.8	3.7	3.4									
						2	25.0	7.7	29.9	3.4	48.0	5.7	3.5										
				TCE-WQM3A	Cloudy	Calm	8:30	4.0	Surface	1.0	1	29.2	8.1	14.4	8.0	112.3	3.7	4.1	8.0	3.8	3.7		
									2	29.2	8.1	14.4	8.0	112.2	3.7	3.7							
		Bottom	3.0						1	29.0	8.1	15.1	7.9	111.0	3.8	3.5							
									2	28.9	8.1	15.3	7.8	110.6	3.9	3.5							
				TCE-WQM4	Cloudy	Calm	8:37	3.6	Surface	1.0	1	29.1	8.1	15.6	8.3	118.3	2.3	4.5	8.3	2.7	4.3		
									2	29.1	8.1	15.6	8.3	118.1	2.3	4.3							
		Bottom	2.6						1	29.0	8.0	16.5	7.6	107.5	3.0	4.0							
									2	29.0	8.0	16.6	7.5	107.3	3.1	4.2							
																	7.5						
		29-06-20	Mid-Flood	TCE-C1	Fine	Moderate	11:51	7.9	Surface	1.0	1	29.4	7.9	8.0	7.1	96.9	3.6	3.4	6.7	3.5	3.4		
											2	29.4	7.9	8.0	7.1	96.5	3.5	3.5					
									Middle	4.0	1	28.7	7.9	15.5	6.3	87.9	2.7	3.5					
											2	28.6	7.9	15.4	6.2	87.8	2.8	3.3					
						Bottom	6.9	1	27.9	7.8	17.8	5.3	74.9	4.1	3.3	5.3							
								2	27.8	7.8	18.3	5.3	74.4	4.5	3.4								
						TCE-C2	Fine	Moderate	14:05	15.9	Surface	1.0	1	28.6	8.1	17.9	8.1	115.5	2.3	3.8	5.7	4.8	5.3
											2	28.6	8.1	17.8	8.1	115.6	2.3	3.7					
				Middle	8.0						1	24.7	7.7	30.8	3.3	46.9	5.0	5.5					
				2	24.6						7.7	30.8	3.3	46.8	5.1	5.3							
				Bottom	14.9	1	24.3	7.7	31.8	3.4	48.8	7.3	6.6	3.4									
						2	24.4	7.7	31.7	3.5	49.4	6.5	7.1										
				TCE-WQM1	Fine	Calm	12:46	8.9	Surface	1.0	1	29.7	8.2	15.4	9.7	139.0	2.6	4.4	8.7	7.1	5.6		
									2	29.7	8.2	15.4	9.7	138.6	2.6	4.2							
Middle	4.5								1	28.9	8.1	17.9	7.7	109.6	5.2	5.1							
									2	28.9	8.1	17.9	7.6	109.4	5.1	5.3							
				Bottom	7.9	1	26.5	7.7	25.4	4.1	58.1	13.5	7.2	4.1									
						2	26.5	7.7	25.4	4.1	58.3	13.5	7.2										
				TCE-WQM2a	Fine	Moderate	13:23	7.3	Surface	1.0	1	29.0	8.1	15.8	7.9	111.9	5.1	5.1	7.2	7.4	6.5		
									2	29.0	8.1	15.8	7.9	111.9	5.1	5.1							
Middle	3.7								1	28.2	7.9	19.4	6.4	91.8	3.9	6.7							
									2	28.2	7.9	19.4	6.4	91.7	4.2	6.5							
				Bottom	6.3	1	27.8	7.9	21.1	6.0	85.5	12.4	7.9	6.0									
						2	27.8	7.9	21.1	6.0	85.8	13.5	7.4										
				TCE-WQM2b	Fine	Moderate	13:36	10.9	Surface	1.0	1	28.9	8.0	15.7	7.6	107.5	2.3	4.0	6.1	6.9	5.7		
									2	29.0	8.0	15.6	7.6	107.6	2.4	3.9							
Middle	5.5								1	26.7	7.8	24.2	4.7	67.2	7.6	4.6							
									2	26.8	7.8	24.4	4.7	67.2	7.5	4.9							
				Bottom	9.9	1	25.4	7.7	28.7	4.2	60.1	10.6	8.2	4.2									
						2	25.4	7.7	28.7	4.2	60.8	10.8	8.3										
				TCE-WQM3A	Fine	Calm	13:11	4.8	Surface	1.0	1	29.7	8.2	13.7	9.3	131.9	4.0	3.1	9.3	8.4	4.2		
									2	29.7	8.2	13.7	9.3	131.4	4.1	3.4							
Bottom	3.8								1	28.8	8.0	17.3	6.9	98.5	12.8	5.0							
									2	28.9	8.0	17.1	7.0	99.7	12.8	5.1							
				TCE-WQM4	Fine	Calm	13:01	4.0	Surface	1.0	1	29.2	8.1	15.2	8.1	115.5	6.6	5.1	8.1	9.2	7.6		
									2	29.2	8.1	15.2	8.1	115.2	6.4	5.1							
Bottom	3.0								1	28.7	8.0	17.3	7.3	104.2	12.1	10.3							
									2	28.8	8.0	17.3	7.3	104.2	11.9	9.7							