

Annex G3

Monitoring Results for Water Quality

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (pp)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
18-10-2019	Mid-Ebb	TCE-C1	Fine	Moderate	13:49	7.9	Surface	1.0	1	28.4	8.3	29.1	6.1	92.6	6.3	9.8	6.0	9.6	10.7		
									2	28.4	8.3	29.1	6.1	92.5	6.4	10.4					
							Middle	4.0	1	28.1	8.3	30.6	5.8	88.0	9.0	11.0					
									2	28.1	8.3	30.6	5.8	88.0	9.1	10.5					
							Bottom	6.9	1	28.2	8.3	31.7	6.0	91.0	13.5	11.0					
									2	28.2	8.3	31.7	6.0	91.1	13.4	11.4					
		TCE-C2	Fine	Moderate	15:49	13.4	Surface	1.0	1	28.9	8.4	29.8	5.9	90.4	4.8	8.7	5.7	7.6	10.8		
									2	28.9	8.4	29.8	5.9	90.3	4.8	9.4					
							Middle	6.7	1	28.6	8.4	30.2	5.4	82.4	7.8	11.0					
									2	28.6	8.4	30.2	5.4	82.4	7.9	11.2					
							Bottom	12.4	1	28.6	8.3	31.1	5.4	82.1	10.2	12.4					
									2	28.6	8.3	31.1	5.4	82.2	10.1	12.0					
		TCE-WQM1	Fine	Calm	14:31	9.4	Surface	1.0	1	28.3	8.4	29.6	5.9	89.5	12.0	17.2	5.9	13.3	16.7		
									2	28.3	8.4	29.6	5.9	89.5	12.0	16.9					
							Middle	4.7	1	28.3	8.3	29.6	5.9	89.3	13.3	17.1					
									2	28.3	8.3	29.6	5.9	89.3	13.4	17.3					
							Bottom	8.4	1	28.2	8.3	29.6	5.9	89.2	14.4	16.0					
									2	28.2	8.3	29.6	5.9	89.4	14.8	15.7					
		TCE-WQM2a	Fine	Moderate	15:10	7.2	Surface	1.0	1	28.8	8.4	29.4	6.0	91.2	9.0	14.9	5.8	9.2	17.0		
									2	28.8	8.4	29.4	6.0	91.2	9.0	14.5					
							Middle	3.6	1	28.6	8.4	29.7	5.7	86.4	9.4	16.8					
									2	28.6	8.4	29.7	5.7	86.4	9.4	16.1					
							Bottom	6.2	1	28.6	8.3	29.9	5.7	86.1	9.2	19.4					
									2	28.6	8.3	29.9	5.7	86.1	9.2	20.1					
	TCE-WQM2b	Fine	Moderate	15:24	11.5	Surface	1.0	1	28.7	8.4	28.4	6.2	94.1	5.5	8.4	5.9	8.5	10.1			
								2	28.7	8.4	28.4	6.2	94.1	5.5	8.9						
						Middle	5.8	1	28.7	8.4	29.6	5.6	84.8	8.4	9.1						
								2	28.7	8.4	29.6	5.6	84.7	8.5	9.9						
						Bottom	10.5	1	28.6	8.3	30.7	5.4	82.2	11.6	12.3						
								2	28.6	8.3	30.7	5.4	82.3	11.6	11.9						
	TCE-WQM3A	Fine	Calm	14:58	4.1	Surface	1.0	1	28.8	8.3	29.3	5.9	89.7	9.0	13.5	5.9	9.3	14.0			
								2	28.8	8.3	29.3	5.9	89.7	9.0	13.9						
						Bottom	3.1	1	28.6	8.3	29.4	5.8	87.6	9.5	14.6						
								2	28.6	8.3	29.4	5.8	87.5	9.5	14.1						
						Surface	1.0	1	28.7	8.4	29.5	6.0	91.9	11.1	14.3				6.0	11.3	15.7
								2	28.7	8.4	29.5	6.0	91.9	11.2	13.7						
	Bottom	2.2	1	28.7	8.3	29.5	6.0	91.1	11.4	17.4											
			2	28.7	8.3	29.5	6.0	91.1	11.4	17.2											
	Surface	1.0	1	28.0	8.5	28.7	6.0	90.7	8.1	13.7	5.9	10.6	16.3								
			2	28.0	8.5	28.7	6.0	90.6	8.2	13.2											
	Middle	3.8	1	28.1	8.4	29.8	5.8	87.5	10.6	16.3											
			2	28.1	8.4	29.8	5.8	87.5	10.6	16.8											
	Bottom	6.6	1	28.2	8.4	30.4	5.7	86.9	13.0	19.2											
			2	28.2	8.4	30.4	5.7	86.9	13.1	18.6											
	TCE-C2	Cloudy	Moderate	8:38	12.8	Surface	1.0	1	28.4	8.3	29.6	5.6	85.0	8.7	10.6	5.5	11.2	11.3			
								2	28.4	8.3	29.6	5.6	85.0	8.8	10.4						
						Middle	6.4	1	28.6	8.3	30.2	5.4	81.8	11.3	11.1						
								2	28.6	8.3	30.3	5.4	81.7	10.8	11.8						
Bottom						11.8	1	28.6	8.2	30.5	5.3	80.9	13.6	12.4							
							2	28.6	8.2	30.5	5.3	80.9	14.1	11.7							
TCE-WQM1	Fine	Calm	9:59	9.0	Surface	1.0	1	28.2	8.4	29.4	5.7	85.6	9.3	14.5	5.7	11.8	16.4				
							2	28.2	8.4	29.4	5.7	85.6	9.3	15.0							
					Middle	4.5	1	28.1	8.4	29.6	5.8	87.6	12.0	17.0							
							2	28.1	8.4	29.6	5.8	87.5	12.1	16.7							
					Bottom	8.0	1	28.1	8.4	29.7	5.8	87.6	13.9	17.2							
							2	28.1	8.4	29.7	5.8	87.6	14.1	18.1							
TCE-WQM2a	Fine	Moderate	9:21	7.1	Surface	1.0	1	28.3	8.4	29.2	5.9	88.6	7.7	12.8	5.8	9.8	14.1				
							2	28.3	8.4	29.2	5.9	88.6	7.7	13.3							
					Middle	3.6	1	28.3	8.4	29.3	5.8	87.0	9.7	12.5							
							2	28.3	8.4	29.3	5.8	86.9	9.8	12.7							
					Bottom	6.1	1	28.3	8.4	29.5	5.7	85.9	11.9	16.1							
							2	28.3	8.4	29.5	5.7	85.9	11.9	17.0							
TCE-WQM2b	Fine	Moderate	9:05	11.9	Surface	1.0	1	28.3	8.4	29.4	5.8	87.9	10.7	17.1	5.8	12.7	18.0				
							2	28.3	8.4	29.4	5.8	87.9	10.7	17.7							
					Middle	6.0	1	28.3	8.4	29.4	5.8	86.9	12.1	18.3							
							2	28.3	8.4	29.4	5.8	87.0	12.2	17.9							
					Bottom	10.9	1	28.3	8.4	29.4	5.7	86.5	15.1	18.6							
							2	28.3	8.4	29.4	5.7	86.5	15.2	18.4							
TCE-WQM3A	Fine	Calm	9:35	3.9	Surface	1.0	1	28.3	8.4	29.2	5.6	84.6	10.9	16.9	5.6	12.3	17.6				
							2	28.3	8.4	29.2	5.6	84.7	10.7	16.5							
					Bottom	2.9	1	28.3	8.3	29.3	5.6	84.1	13.7	18.5							
							2	28.3	8.3	29.3	5.6	84.2	13.7	18.4							
					Surface	1.0	1	28.4	8.3	29.7	5.6	85.1	9.9	20.1				5.6	11.3	22.7	
							2	28.4	8.3	29.7	5.6	85.1	10.0	20.9							
Bottom	2.3	1	28.4	8.3	29.7	5.6	85.6	12.5	24.6												
		2	28.4	8.3	29.7	5.6	85.6	12.8	25.2												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppH)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged		
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)
21-10-2019	Mid-Ebb	TCE-C1	Fine	Moderate	6:38	8.4	Surface	1.0	1	27.6	8.1	29.5	6.1	90.8	5.1	9.1	5.9	9.2	10.9
									2	27.6	8.1	29.5	6.1	90.8	5.1	8.6			
							Middle	4.2	1	28.1	8.1	31.0	5.8	88.2	10.6	10.2			
									2	28.1	8.1	31.0	5.8	88.2	10.6	10.9			
							Bottom	7.4	1	28.0	8.1	31.4	6.1	93.0	12.0	13.4			
									2	28.0	8.1	31.4	6.1	93.0	12.0	13.2			
		TCE-C2	Fine	Moderate	4:29	12.3	Surface	1.0	1	27.8	8.0	29.8	5.7	85.0	3.6	9.3	5.6	3.7	10.5
									2	27.8	8.0	29.8	5.7	85.0	3.6	9.4			
							Middle	6.2	1	27.9	8.0	29.9	5.5	82.8	3.6	10.4			
									2	27.9	8.0	29.9	5.5	82.8	3.6	10.6			
							Bottom	11.3	1	28.4	7.9	30.7	5.4	81.9	3.9	11.4			
									2	28.4	7.9	30.7	5.4	81.9	3.9	11.8			
		TCE-WQM1	Fine	Calm	5:57	8.7	Surface	1.0	1	27.8	8.1	29.5	5.9	88.2	6.1	9.4	5.9	6.7	9.2
									2	27.8	8.1	29.5	5.9	88.2	6.1	9.6			
							Middle	4.4	1	27.8	8.1	29.6	5.9	88.1	6.6	8.7			
									2	27.8	8.1	29.6	5.9	88.2	6.6	8.8			
							Bottom	7.7	1	27.9	8.1	29.7	6.0	90.0	7.3	9.3			
									2	27.9	8.1	29.7	6.0	90.0	7.3	9.1			
		TCE-WQM2a	Fine	Moderate	5:18	7.5	Surface	1.0	1	27.8	8.1	29.6	5.8	86.7	4.9	9.6	5.7	4.9	10.2
									2	27.8	8.1	29.6	5.8	86.7	4.9	10.4			
							Middle	3.8	1	27.9	8.1	29.6	5.6	84.8	4.9	9.8			
									2	27.9	8.1	29.6	5.6	84.8	4.9	10.7			
							Bottom	6.5	1	28.2	8.1	30.0	5.8	87.4	4.8	10.6			
									2	28.2	8.1	30.0	5.8	87.4	4.8	10.1			
		TCE-WQM2b	Fine	Moderate	5:04	10.3	Surface	1.0	1	27.9	8.1	28.9	5.8	86.9	4.5	11.9	5.8	5.6	10.6
									2	27.9	8.1	28.9	5.8	86.9	4.5	11.8			
							Middle	5.2	1	28.1	8.1	29.3	5.7	86.4	5.7	10.3			
									2	28.1	8.1	29.2	5.7	86.4	5.7	10.6			
							Bottom	9.3	1	28.2	8.1	29.5	5.8	87.9	6.6	9.8			
									2	28.2	8.1	29.5	5.8	87.9	6.6	9.4			
TCE-WQM3A	Fine	Calm	5:31	4.8	Surface	1.0	1	27.8	8.1	29.4	5.6	84.5	14.5	9.3	5.6	14.6	9.5		
							2	27.8	8.1	29.4	5.6	84.5	14.5	9.7					
					Bottom	3.8	1	28.1	8.1	29.8	5.8	87.7	14.7	9.2					
							2	28.1	8.1	29.8	5.8	87.7	14.7	9.6					
					Bottom	3.8	1	28.1	8.1	29.8	5.8	87.7	14.7	9.2					
							2	28.1	8.1	29.8	5.8	87.7	14.7	9.6					
TCE-WQM4	Fine	Calm	5:46	4.0	Surface	1.0	1	27.7	8.1	29.4	5.9	88.3	4.9	8.1	5.9	5.5	8.0		
							2	27.7	8.1	29.4	5.9	88.3	4.9	8.5					
					Bottom	3.0	1	27.7	8.1	29.5	6.0	90.3	6.0	7.4					
							2	27.7	8.1	29.5	6.0	90.3	6.0	7.8					
					Bottom	3.0	1	27.7	8.1	29.5	6.0	90.3	6.0	7.4					
							2	27.7	8.1	29.5	6.0	90.3	6.0	7.8					
21-10-2019	Mid-Flood	TCE-C1	Fine	Moderate	16:12	8.1	Surface	1.0	1	28.3	8.1	28.1	6.1	90.8	9.0	7.6	5.9	11.0	8.2
									2	28.3	8.1	28.1	6.1	90.8	9.0	7.3			
							Middle	4.1	1	28.0	8.1	30.5	5.8	88.2	11.5	8.2			
									2	28.0	8.1	30.5	5.8	88.2	11.5	8.7			
							Bottom	7.1	1	28.0	8.1	31.1	6.1	91.9	12.6	8.7			
									2	28.0	8.1	31.1	6.1	91.9	12.6	8.5			
		TCE-C2	Fine	Moderate	18:13	12.6	Surface	1.0	1	28.2	8.1	30.8	5.4	81.5	4.7	7.5	5.4	5.5	7.0
									2	28.2	8.1	30.8	5.4	81.5	4.7	7.1			
							Middle	6.3	1	28.3	8.0	31.2	5.4	81.8	5.4	7.1			
									2	28.3	8.0	31.2	5.4	81.8	5.4	7.0			
							Bottom	11.6	1	28.3	8.0	31.4	5.4	82.2	6.4	6.3			
									2	28.3	8.0	31.4	5.4	82.2	6.4	6.7			
		TCE-WQM1	Fine	Calm	16:56	8.5	Surface	1.0	1	28.3	8.0	29.4	6.0	91.0	7.5	13.8	6.0	9.4	14.6
									2	28.3	8.0	29.4	6.0	91.0	7.5	14.4			
							Middle	4.3	1	28.2	8.0	29.4	5.9	89.5	8.9	14.0			
									2	28.2	8.0	29.4	5.9	89.5	8.9	13.8			
							Bottom	7.5	1	28.1	8.0	29.4	6.0	90.2	11.7	16.0			
									2	28.1	8.0	29.4	6.0	90.2	11.7	15.3			
		TCE-WQM2a	Fine	Moderate	17:33	7.6	Surface	1.0	1	28.1	8.1	29.5	5.6	84.3	8.7	11.1	5.5	11.2	13.4
									2	28.1	8.1	29.5	5.6	84.3	8.7	11.8			
							Middle	3.8	1	28.2	8.0	29.9	5.5	83.0	11.7	13.1			
									2	28.2	8.0	29.9	5.5	83.0	11.7	13.3			
							Bottom	6.6	1	28.2	8.0	30.0	5.6	84.3	13.3	15.3			
									2	28.2	8.0	30.0	5.6	84.3	13.3	15.9			
		TCE-WQM2b	Fine	Moderate	17:46	10.8	Surface	1.0	1	28.4	8.0	29.5	5.8	87.5	4.8	8.3	5.7	5.8	9.2
									2	28.4	8.0	29.5	5.8	87.5	4.8	8.8			
							Middle	5.4	1	28.4	8.0	29.8	5.6	84.4	5.6	9.3			
									2	28.4	8.0	29.8	5.6	84.4	5.6	9.7			
							Bottom	9.8	1	28.4	8.0	30.3	5.6	85.5	7.0	9.5			
									2	28.4	8.0	30.3	5.6	85.5	7.0	9.8			
		TCE-WQM3A	Fine	Calm	17:20	4.5	Surface	1.0	1	28.3	8.0	29.2	6.1	92.1	6.2	9.8	6.1	8.0	9.7
									2	28.3	8.0	29.2	6.1	92.1	6.2	9.0			
							Bottom	3.5	1	28.4	8.0	29.4	6.0	91.3	9.7	9.9			
									2	28.4	8.0	29.4	6.0	91.3	9.7	10.2			
							Bottom	3.5	1	28.4	8.0	29.4	6.0	91.3	9.7	9.9			
									2	28.4	8.0	29.4	6.0	91.3	9.7	10.2			
TCE-WQM4	Fine	Calm	17:09	3.9	Surface	1.0	1	28.1	8.1	29.3	6.1	91.2	7.7	11.1	6.1	8.4	12.3		
							2	28.1	8.1	29.3	6.1	91.2	7.7	11.9					
					Bottom	2.9	1	28.1	8.1	29.4	6.1	92.2	9.1	13.3					
							2	28.1	8.1	29.4	6.1	92.2	9.1	12.9					
					Bottom	2.9	1	28.1	8.1	29.4	6.1	92.2	9.1	13.3					
							2	28.1	8.1	29.4	6.1	92.2	9.1	12.9					

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																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
23-10-2019	Mid-Ebb	TCE-C1	Cloudy	Moderate	9:42	7.6	Surface	1.0	1	27.2	8.1	29.5	6.1	90.3	3.9	7.1	5.8	14.3	6.4		
									2	27.2	8.1	29.5	6.1	90.2	3.9	6.4					
							Middle	3.8	1	27.7	8.0	30.6	5.5	82.5	15.7	6.9					
									2	27.7	8.0	30.6	5.5	82.5	15.9	6.5					
							Bottom	6.6	1	27.7	8.0	30.8	5.5	83.5	23.0	5.6					
									2	27.7	8.0	30.8	5.6	83.9	23.7	6.0					
		TCE-C2	Cloudy	Moderate	7:01	12.8	Surface	1.0	1	27.3	8.0	29.5	5.7	85.1	3.4	4.5	5.6	3.5	4.6		
									2	27.3	8.0	29.5	5.7	85.1	3.4	4.3					
							Middle	6.4	1	27.7	7.9	29.9	5.5	82.1	3.1	4.2					
									2	27.7	7.9	29.9	5.5	81.9	3.2	4.5					
							Bottom	11.8	1	27.9	7.9	30.3	5.3	79.2	4.0	5.4					
									2	27.9	7.9	30.3	5.3	79.3	4.0	4.7					
		TCE-WQM1	Cloudy	Calm	8:30	8.1	Surface	1.0	1	27.3	8.0	29.3	5.8	85.6	6.7	7.8	5.8	6.9	8.9		
									2	27.3	8.0	29.3	5.8	85.6	6.7	8.7					
							Middle	4.1	1	27.3	8.0	29.3	5.8	85.8	7.0	9.3					
									2	27.3	8.0	29.3	5.8	85.9	7.1	8.5					
							Bottom	7.1	1	27.3	8.0	29.3	5.8	86.6	7.1	9.2					
									2	27.3	8.0	29.3	5.8	86.7	7.1	9.9					
		TCE-WQM2a	Cloudy	Moderate	7:47	7.3	Surface	1.0	1	27.3	8.0	29.3	5.8	86.7	5.2	7.2	5.6	4.3	7.7		
									2	27.3	8.0	29.3	5.8	86.7	5.2	6.6					
							Middle	3.7	1	27.8	8.0	29.8	5.4	81.8	4.2	7.8					
									2	27.8	8.0	29.9	5.4	81.8	4.1	7.4					
							Bottom	6.3	1	27.9	8.0	30.1	5.5	82.8	3.6	8.6					
									2	27.9	8.0	30.1	5.5	83.1	3.7	8.8					
	TCE-WQM2b	Cloudy	Moderate	7:34	11.3	Surface	1.0	1	27.5	8.0	28.7	5.9	87.7	3.8	5.4	5.7	5.1	7.2			
								2	27.5	8.0	28.7	5.9	87.6	3.8	6.2						
						Middle	5.7	1	27.8	8.0	29.2	5.6	83.7	5.1	6.7						
								2	27.8	8.0	29.2	5.6	83.7	5.5	6.0						
						Bottom	10.3	1	27.9	8.0	29.4	5.6	84.1	6.4	9.1						
								2	27.9	8.0	29.4	5.6	84.3	6.1	9.7						
	TCE-WQM3A	Cloudy	Calm	8:01	4.1	Surface	1.0	1	27.5	8.0	29.4	5.5	81.5	9.5	7.6	5.5	11.7	7.3			
								2	27.6	8.0	29.4	5.5	81.4	10.2	7.1						
						Bottom	3.1	1	27.6	8.0	29.5	5.4	81.4	13.6	6.8						
								2	27.6	8.0	29.5	5.5	81.6	13.4	7.5						
						Surface	1.0	1	27.2	8.0	29.1	5.8	86.1	3.5	6.3				5.8	4.3	6.7
								2	27.2	8.0	29.1	5.8	86.2	3.5	6.6						
	Bottom	2.6	1	27.0	8.0	29.2	6.0	88.5	5.0	6.9											
			2	27.0	8.0	29.2	6.0	88.8	5.1	7.1											
	Surface	1.0	1	27.6	8.2	28.7	6.1	90.2	9.8	8.5	5.9	12.9	11.2								
			2	27.6	8.2	28.7	6.1	90.2	9.7	9.1											
	Middle	3.8	1	27.5	8.2	29.4	5.8	86.2	11.3	11.6											
			2	27.5	8.2	29.4	5.8	86.1	11.5	11.3											
	Bottom	6.6	1	27.7	8.2	30.0	5.8	86.3	17.5	13.3											
			2	27.6	8.2	30.0	5.8	86.8	17.7	13.6											
	TCE-C2	Cloudy	Moderate	17:08	12.5	Surface	1.0	1	28.0	8.1	29.8	5.8	87.5	4.5	6.8	5.7	9.1	8.9			
								2	28.0	8.1	29.7	5.8	87.6	4.7	6.3						
						Middle	6.3	1	28.1	8.0	30.8	5.5	83.7	10.4	8.3						
								2	28.1	8.0	30.8	5.5	83.7	10.3	8.9						
Bottom						11.5	1	28.1	8.0	30.8	5.6	84.9	12.2	11.3							
							2	28.1	8.0	30.8	5.6	85.3	12.2	11.9							
TCE-WQM1	Cloudy	Calm	15:28	8.2	Surface	1.0	1	28.1	8.0	29.1	6.3	94.5	9.6	8.5	6.1	12.0	12.1				
							2	28.1	8.0	29.1	6.3	94.4	9.7	8.8							
					Middle	4.1	1	27.9	8.1	29.2	5.9	89.2	12.1	11.6							
							2	27.9	8.1	29.2	5.9	89.2	12.4	11.9							
					Bottom	7.2	1	27.8	8.1	29.3	5.9	89.0	14.1	15.5							
							2	27.8	8.1	29.3	5.9	88.9	14.2	16.3							
TCE-WQM2a	Cloudy	Moderate	16:14	7.4	Surface	1.0	1	27.9	8.1	28.7	6.3	94.4	8.7	8.6	6.2	9.5	11.1				
							2	27.9	8.1	28.7	6.3	94.4	8.7	9.3							
					Middle	3.7	1	27.7	8.0	28.8	6.1	91.5	10.2	10.6							
							2	27.8	8.0	28.8	6.1	91.4	10.3	11.0							
					Bottom	6.4	1	27.7	8.0	28.9	6.1	91.3	9.4	13.6							
							2	27.7	8.0	28.9	6.1	91.4	9.4	13.2							
TCE-WQM2b	Cloudy	Moderate	16:29	10.8	Surface	1.0	1	28.1	8.0	29.1	6.1	91.2	5.5	5.7	5.9	7.2	7.5				
							2	28.1	8.0	29.1	6.1	91.2	5.6	5.0							
					Middle	5.4	1	28.1	7.9	29.4	5.8	87.0	7.4	7.3							
							2	28.1	7.9	29.4	5.8	87.0	7.4	8.4							
					Bottom	9.8	1	28.1	7.9	29.6	5.9	89.6	8.5	9.3							
							2	28.1	7.9	29.6	6.0	89.7	8.5	9.0							
TCE-WQM3A	Cloudy	Calm	16:00	3.7	Surface	1.0	1	28.1	8.0	29.2	6.4	95.8	6.8	8.4	6.4	6.7	8.8				
							2	28.1	8.0	29.2	6.4	96.0	6.8	7.8							
					Bottom	2.7	1	28.0	8.1	29.3	6.7	100.6	6.5	9.1							
							2	28.0	8.1	29.3	6.7	101.0	6.5	9.7							
					Surface	1.0	1	28.0	8.1	29.0	6.3	95.1	9.7	12.7				6.3	11.4	12.7	
							2	28.0	8.1	29.0	6.3	95.1	9.7	12.7							
Bottom	2.2	1	28.0	8.1	29.0	6.6	98.4	13.1	13.2												
		2	28.0	8.1	29.0	6.6	98.5	13.0	12.8												

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (C)	pH	Salinity (ppH)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged											
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)									
25-10-2019	Mid-Ebb	TCE-C1	Fine	Moderate	11:08	7.8	Surface	1.0	1	27.9	7.8	29.9	6.1	91.9	5.7	6.9	6.0	8.4	8.1									
									2	27.9	7.8	29.9	6.1	91.9	5.7	6.8												
							Middle	3.9	1	27.6	7.8	31.0	6.0	89.8	8.1	8.7												
									2	27.6	7.8	31.0	6.0	89.8	8.2	8.2												
							Bottom	6.8	1	27.7	7.8	31.5	5.9	89.0	11.2	9.2												
									2	27.7	7.8	31.5	5.9	89.1	11.3	8.5												
		TCE-C2	Fine	Moderate	9:06	12.8	Surface	1.0	1	27.6	7.8	29.7	5.7	84.9	3.3	4.8	5.5	4.7	5.7									
									2	27.6	7.8	29.7	5.7	84.8	3.4	5.1												
							Middle	6.4	1	27.9	7.7	31.4	5.3	80.9	4.4	5.6												
									2	27.9	7.7	31.4	5.3	80.9	4.4	6.4												
							Bottom	11.8	1	28.0	7.7	31.7	5.4	81.7	6.3	6.3												
									2	28.0	7.7	31.7	5.4	81.8	6.3	6.0												
		TCE-WQM1	Fine	Calm	10:29	9.2	Surface	1.0	1	27.6	7.8	29.2	5.9	88.0	9.2	12.4	5.9	10.4	13.7									
									2	27.6	7.8	29.2	5.9	88.0	9.1	12.8												
							Middle	4.6	1	27.6	7.8	29.3	5.9	87.5	10.4	13.0												
									2	27.6	7.8	29.3	5.9	87.6	10.4	13.2												
							Bottom	8.2	1	27.6	7.8	29.3	5.9	88.2	11.6	15.3												
									2	27.6	7.8	29.3	5.9	88.3	11.6	15.7												
		TCE-WQM2a	Fine	Moderate	9:52	7.4	Surface	1.0	1	27.5	7.8	29.0	6.1	91.2	7.2	6.0	5.9	7.8	9.1									
									2	27.5	7.8	29.0	6.1	91.2	7.2	6.8												
							Middle	3.7	1	27.7	7.8	29.5	5.7	84.9	7.9	10.0												
									2	27.7	7.8	29.5	5.7	84.8	7.8	9.2												
							Bottom	6.4	1	27.8	7.8	30.3	5.7	85.2	8.3	11.4												
									2	27.8	7.8	30.3	5.7	85.3	8.1	11.0												
	TCE-WQM2b	Fine	Moderate	9:39	11.5	Surface	1.0	1	27.8	7.8	29.4	5.9	87.7	4.5	6.1	5.8	5.6	8.2										
								2	27.8	7.8	29.4	5.8	87.5	4.5	6.7													
						Middle	5.8	1	27.7	7.7	29.5	5.8	86.5	5.1	8.4													
								2	27.7	7.7	29.5	5.8	86.5	5.1	8.7													
						Bottom	10.5	1	27.9	7.7	30.5	5.5	83.3	7.3	9.3													
								2	27.9	7.7	30.5	5.5	83.3	7.3	9.7													
	TCE-WQM3A	Fine	Calm	10:04	4.1	Surface	1.0	1	27.5	7.8	28.7	6.0	89.9	8.1	14.1	6.0	9.9	15.1										
								2	27.5	7.8	28.7	6.0	89.7	8.1	14.5													
						Bottom	3.1	1	27.5	7.8	28.7	6.0	88.7	11.6	16.1													
								2	27.5	7.8	28.7	6.0	88.7	11.7	15.8													
						TCE-WQM4	Fine	Calm	10:16	3.3	Surface	1.0	1	27.4	7.8				29.0	6.2	92.6	4.1	6.0	6.2	4.4	6.6		
													2	27.4	7.8				29.0	6.2	92.6	4.1	5.5					
	Bottom	2.3	1	27.4	7.8						29.0	6.1	91.0	4.6	7.4													
			2	27.4	7.8						29.0	6.1	91.0	4.6	7.5													
	25-10-2019	Mid-Flood	TCE-C1	Fine	Moderate						15:38	7.6	Surface	1.0	1	27.9	7.8	28.6	6.2	92.3	10.6	23.9	6.1				13.0	24.3
															2	27.9	7.8	28.6	6.2	92.3	10.7	23.5						
						Middle	3.8	1	27.7	7.8			29.2	6.0	89.4	12.7	24.1											
								2	27.7	7.8			29.2	6.0	89.4	12.7	23.8											
						Bottom	6.6	1	27.8	7.8			30.6	5.9	88.6	15.8	25.0											
								2	27.8	7.8			30.6	5.9	88.5	15.7	25.4											
			TCE-C2	Fine	Moderate	17:44	12.3	Surface	1.0	1	27.9	7.7	29.8	6.0	89.5	8.4	12.6	5.9	9.4	15.0								
										2	27.9	7.7	29.8	6.0	89.6	8.4	12.4											
								Middle	6.2	1	27.9	7.7	30.1	5.8	86.8	9.4	15.7											
										2	27.9	7.7	30.1	5.8	86.8	9.5	15.3											
Bottom								11.3	1	27.9	7.7	30.3	5.7	86.4	10.5	16.6												
									2	27.9	7.7	30.3	5.7	86.4	10.4	17.1												
TCE-WQM1		Fine	Calm	16:20	8.8	Surface	1.0	1	27.9	7.7	29.0	6.4	95.5	10.1	18.2	6.3	12.1	19.8										
								2	27.9	7.7	29.0	6.4	95.5	9.9	18.4													
						Middle	4.4	1	27.9	7.7	29.0	6.2	93.4	12.1	20.0													
								2	27.9	7.7	29.0	6.2	93.3	12.2	20.7													
						Bottom	7.8	1	27.9	7.8	29.0	6.3	93.9	14.0	20.5													
								2	27.9	7.8	29.0	6.3	93.9	14.0	20.9													
TCE-WQM2a		Fine	Moderate	17:00	6.9	Surface	1.0	1	27.8	7.8	28.6	6.3	93.5	7.3	11.3	6.2	9.1	12.3										
								2	27.8	7.8	28.6	6.3	93.5	7.3	11.5													
						Middle	3.5	1	27.8	7.8	28.6	6.2	92.9	8.4	11.8													
								2	27.8	7.8	28.6	6.2	92.9	8.4	12.4													
						Bottom	5.9	1	27.9	7.7	28.9	6.2	92.3	11.6	13.9													
								2	27.9	7.7	28.9	6.2	92.4	11.7	13.1													
TCE-WQM2b	Fine	Moderate	17:12	11.2	Surface	1.0	1	27.9	7.7	28.9	6.1	91.7	11.7	24.6	6.0	13.1	23.2											
							2	27.9	7.7	28.9	6.1	91.7	11.8	25.2														
					Middle	5.6	1	27.9	7.7	29.0	6.0	89.2	12.7	22.1														
							2	27.9	7.7	29.0	6.0	89.2	12.8	22.5														
					Bottom	10.2	1	27.9	7.7	29.1	6.0	89.5	14.7	22.1														
							2	27.9	7.7	29.1	6.0	89.5	14.8	22.9														
TCE-WQM3A	Fine	Calm	16:48	3.7	Surface	1.0	1	27.9	7.7	28.9	6.5	97.3	6.8	14.6	6.5	7.1	15.6											
							2	27.9	7.7	28.9	6.5	97.2	6.9	15.2														
					Bottom	2.7	1	27.9	7.8	28.9	6.6	98.4	7.3	16.2														
							2	27.9	7.8	28.9	6.6	98.5	7.3	16.5														
					TCE-WQM4	Fine	Calm	16:35	3.1	Surface	1.0	1	28.0	7.7				29.2	6.2	93.0	11.5	16.4	6.2	12.0	17.0			
												2	28.0	7.7				29.2	6.2	93.0	11.5	16.8						
Bottom	2.1	1	28.0	7.7						29.2	6.3	94.0	12.5	17.7														
		2	28.0	7.7						29.2	6.3	94.0	12.5	17.1														

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)			
28-10-2019	Mid-Ebb	TCE-C1	Cloudy	Moderate	11:15	7.7	Surface	1.0	1	26.4	8.2	31.3	6.2	92.4	3.9	6.2	6.2	6.2	7.3			
									2	26.4	8.2	31.3	6.2	92.4	3.9	6.7						
							Middle	3.9	1	26.2	8.2	32.1	6.1	90.4	5.5	7.5						
									2	26.2	8.2	32.1	6.1	90.4	5.5	7.3						
							Bottom	6.7	1	26.2	8.2	32.7	6.0	89.3	9.2	8.1						
									2	26.2	8.3	32.7	6.0	89.3	9.1	8.2						
		TCE-C2	Cloudy	Moderate	13:10	12.6	Surface	1.0	1	26.6	8.1	30.9	5.8	86.0	4.8	6.8	5.8	7.2	8.5			
									2	26.6	8.1	30.9	5.8	86.0	4.8	6.6						
							Middle	6.3	1	26.5	8.2	31.0	5.7	84.3	6.7	9.0						
									2	26.5	8.2	31.0	5.7	84.3	6.6	9.3						
							Bottom	11.6	1	26.5	8.2	31.2	5.6	82.6	9.9	9.3						
									2	26.5	8.2	31.2	5.6	82.6	10.2	9.9						
	TCE-WQM1	Cloudy	Calm	12:02	9.4	Surface	1.0	1	26.4	8.2	31.4	5.9	87.2	10.3	21.3	5.9	12.8	23.6				
								2	26.4	8.2	31.4	5.9	87.2	10.3	21.7							
						Middle	4.7	1	26.3	8.2	31.4	5.9	87.0	12.8	24.1							
								2	26.3	8.2	31.4	5.9	87.0	12.9	24.7							
						Bottom	8.4	1	26.3	8.3	31.4	5.9	87.0	15.2	25.0							
								2	26.3	8.3	31.4	5.9	87.0	15.4	24.5							
	TCE-WQM2a	Cloudy	Moderate	12:36	7.1	Surface	1.0	1	26.6	8.2	30.7	5.8	86.3	11.1	15.5	5.8	11.6	17.6				
								2	26.6	8.2	30.7	5.8	86.3	11.1	16.1							
						Middle	3.6	1	26.5	8.2	30.7	5.8	85.5	11.4	17.2							
								2	26.5	8.2	30.7	5.8	85.4	11.5	17.7							
						Bottom	6.1	1	26.5	8.3	30.9	5.7	84.2	12.4	19.7							
								2	26.5	8.3	30.9	5.7	84.2	12.3	19.6							
TCE-WQM2b	Cloudy	Moderate	12:48	11.5	Surface	1.0	1	26.6	8.1	30.3	6.0	88.4	6.2	13.4	5.9	8.6	15.3					
							2	26.6	8.1	30.3	6.0	88.4	6.1	13.7								
					Middle	5.8	1	26.5	8.2	30.7	5.8	85.6	8.3	15.2								
							2	26.5	8.2	30.7	5.8	85.7	8.6	15.9								
					Bottom	10.5	1	26.5	8.2	30.9	5.7	84.3	11.6	16.3								
							2	26.5	8.2	30.9	5.7	84.3	10.9	17.0								
TCE-WQM3A	Cloudy	Calm	12:24	4.0	Surface	1.0	1	26.5	8.2	30.5	5.6	82.8	9.2	12.4	5.6	9.9	14.7					
							2	26.5	8.2	30.5	5.6	82.8	9.2	12.8								
					Bottom	3.0	1	26.4	8.2	30.6	5.6	82.7	10.5	16.5								
							2	26.4	8.2	30.6	5.6	82.8	10.6	16.9								
					Surface	1.0	1	26.5	8.2	30.8	5.9	86.7	7.6	13.6				5.9	8.2	15.2		
							2	26.5	8.2	30.8	5.9	86.6	7.6	14.2								
Bottom	2.5	1	26.5	8.2	30.9	5.8	86.4	8.7	16.2													
		2	26.5	8.2	30.9	5.8	86.4	8.8	16.6													
28-10-2019	Mid-Flood	TCE-C1	Cloudy	Moderate	8:07	7.6	Surface	1.0	1	26.2	18.2	31.4	6.0	88.8	11.1	13.7	6.0				13.3	13.4
									2	26.2	18.2	31.4	6.0	88.8	11.2	13.0						
							Middle	3.8	1	26.2	8.2	32.5	6.0	89.0	13.1	13.2						
									2	26.2	8.2	32.5	6.0	89.0	13.7	13.9						
							Bottom	6.6	1	26.2	8.3	32.7	6.0	88.9	15.7	13.5						
									2	26.2	8.3	32.7	6.0	88.9	15.2	13.1						
		TCE-C2	Cloudy	Moderate	6:05	12.2	Surface	1.0	1	26.5	8.2	30.8	5.8	84.9	6.4	16.0	5.7	9.5	18.0			
									2	26.5	8.2	30.8	5.7	84.9	6.4	16.3						
							Middle	6.1	1	26.4	8.1	30.9	5.7	84.0	9.7	18.2						
									2	26.5	8.1	30.9	5.7	83.9	9.6	17.2						
							Bottom	11.2	1	26.5	8.1	31.5	5.5	82.0	12.6	20.8						
									2	26.5	8.1	31.5	5.5	82.0	12.4	19.6						
		TCE-WQM1	Cloudy	Calm	7:20	9.3	Surface	1.0	1	26.3	8.2	30.7	5.8	85.7	7.2	11.3	5.8	7.9	11.8			
									2	26.3	8.2	30.7	5.8	85.7	7.2	11.4						
							Middle	4.7	1	26.3	8.2	30.8	5.8	85.8	7.8	11.7						
									2	26.3	8.2	30.8	5.8	85.8	7.8	11.2						
							Bottom	8.3	1	26.3	8.2	30.8	5.8	85.8	9.2	12.4						
									2	26.3	8.2	30.8	5.8	85.8	8.5	12.8						
		TCE-WQM2a	Cloudy	Moderate	6:43	6.9	Surface	1.0	1	26.3	8.2	30.5	5.9	86.0	6.9	12.8	5.8	7.9	12.0			
									2	26.3	8.2	30.5	5.9	86.0	6.9	12.6						
							Middle	3.5	1	26.3	8.2	30.5	5.8	85.8	6.9	11.7						
									2	26.3	8.2	30.5	5.8	85.8	6.9	11.5						
							Bottom	5.9	1	26.3	8.2	30.6	5.8	85.0	9.9	11.2						
									2	26.3	8.2	30.6	5.8	85.0	9.8	11.9						
TCE-WQM2b	Cloudy	Moderate	6:29	10.8	Surface	1.0	1	26.4	8.2	30.7	5.8	85.1	12.3	23.6	5.8	13.6	24.9					
							2	26.4	8.2	30.7	5.8	85.1	12.0	23.9								
					Middle	5.4	1	26.4	8.2	30.7	5.8	84.9	13.2	24.9								
							2	26.4	8.2	30.7	5.8	84.9	13.0	24.6								
					Bottom	9.8	1	26.4	8.2	30.7	5.8	84.9	15.4	26.2								
							2	26.4	8.2	30.7	5.8	84.9	15.7	25.9								
TCE-WQM3A	Cloudy	Calm	6:55	4.1	Surface	1.0	1	26.3	8.1	30.6	5.5	81.3	7.9	8.3	5.5	9.1	10.4					
							2	26.3	8.1	30.6	5.5	81.3	8.0	8.2								
					Bottom	3.1	1	26.3	8.1	30.7	5.5	81.6	10.3	12.3								
							2	26.3	8.1	30.7	5.6	81.7	10.4	12.7								
					Surface	1.0	1	26.4	8.2	30.8	5.7	83.5	8.4	12.0				5.7	8.5	13.4		
							2	26.4	8.2	30.8	5.7	83.5	8.4	12.7								
Bottom	2.3	1	26.4	8.2	30.8	5.7	83.5	8.5	14.8													
		2	26.4	8.2	30.8	5.7	83.5	8.6	14.1													

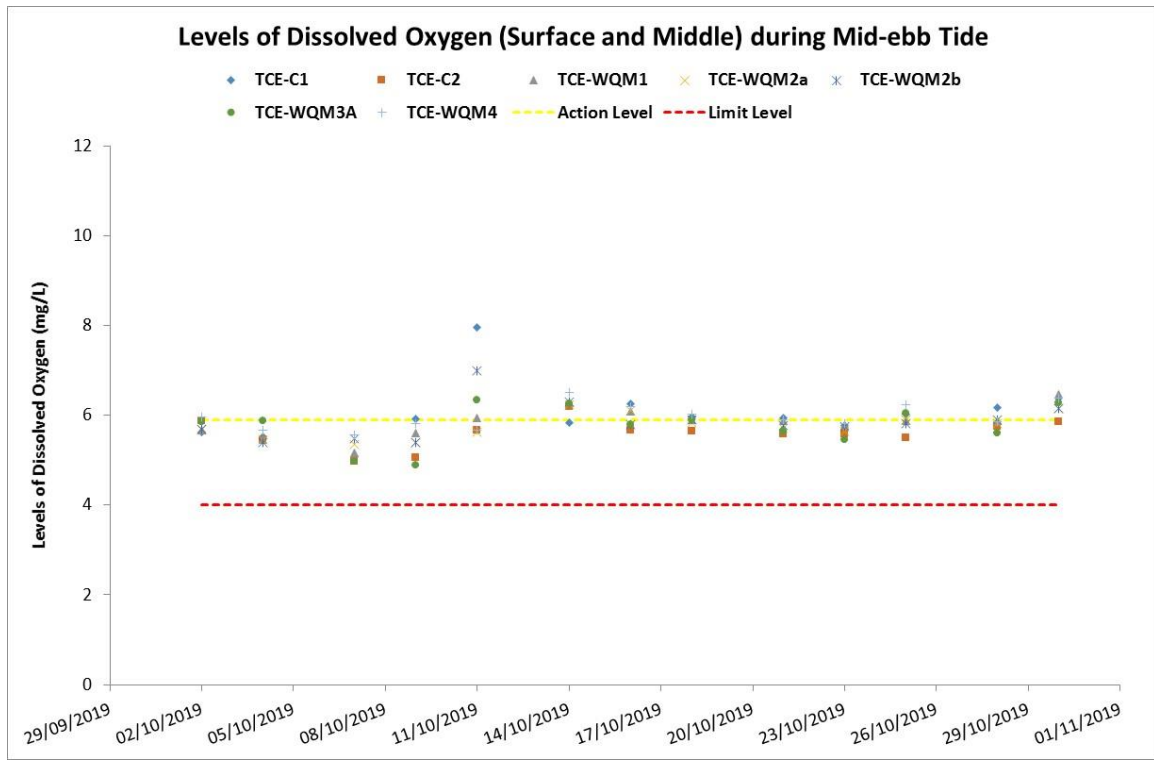


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 October 2019

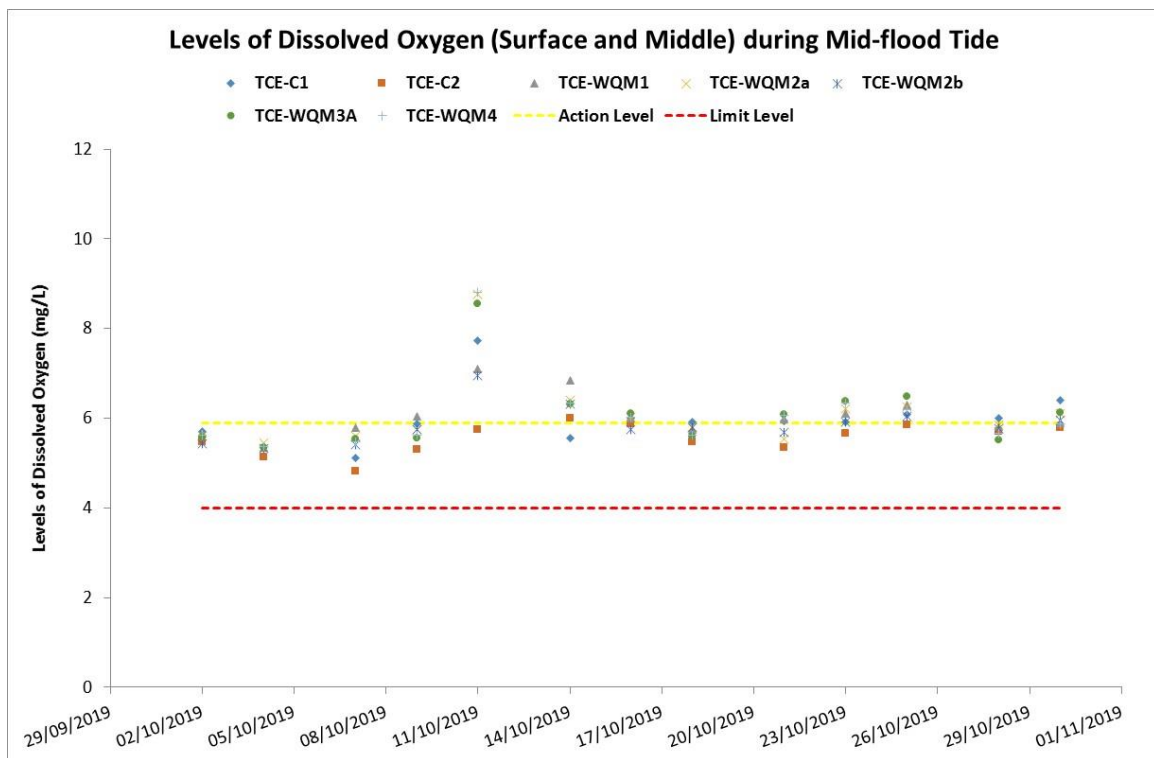


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 October 2019

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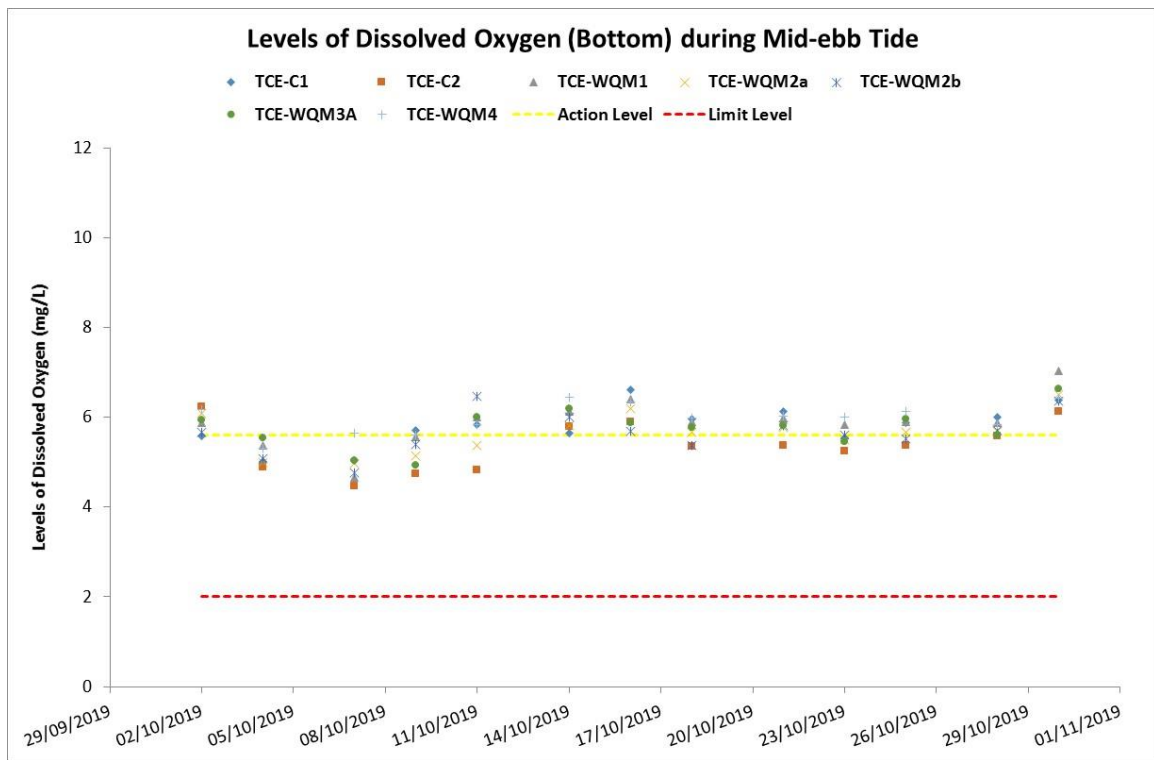


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 October 2019

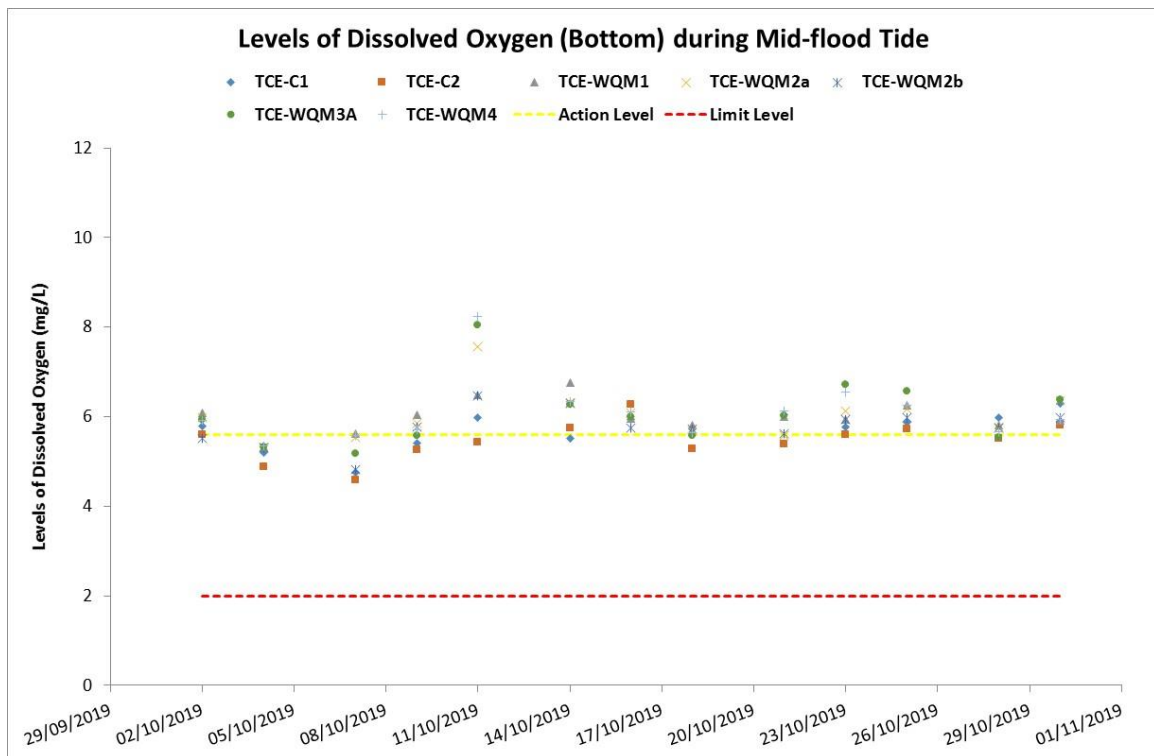


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 October 2019

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

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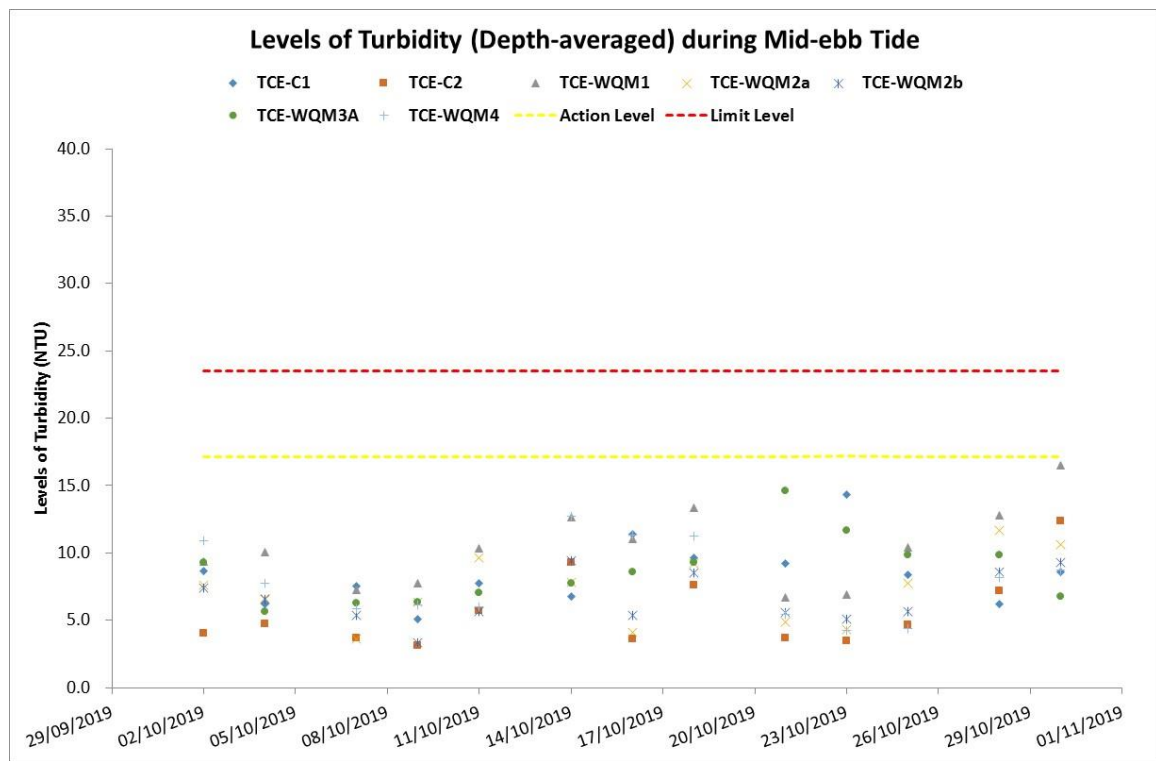


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 October 2019

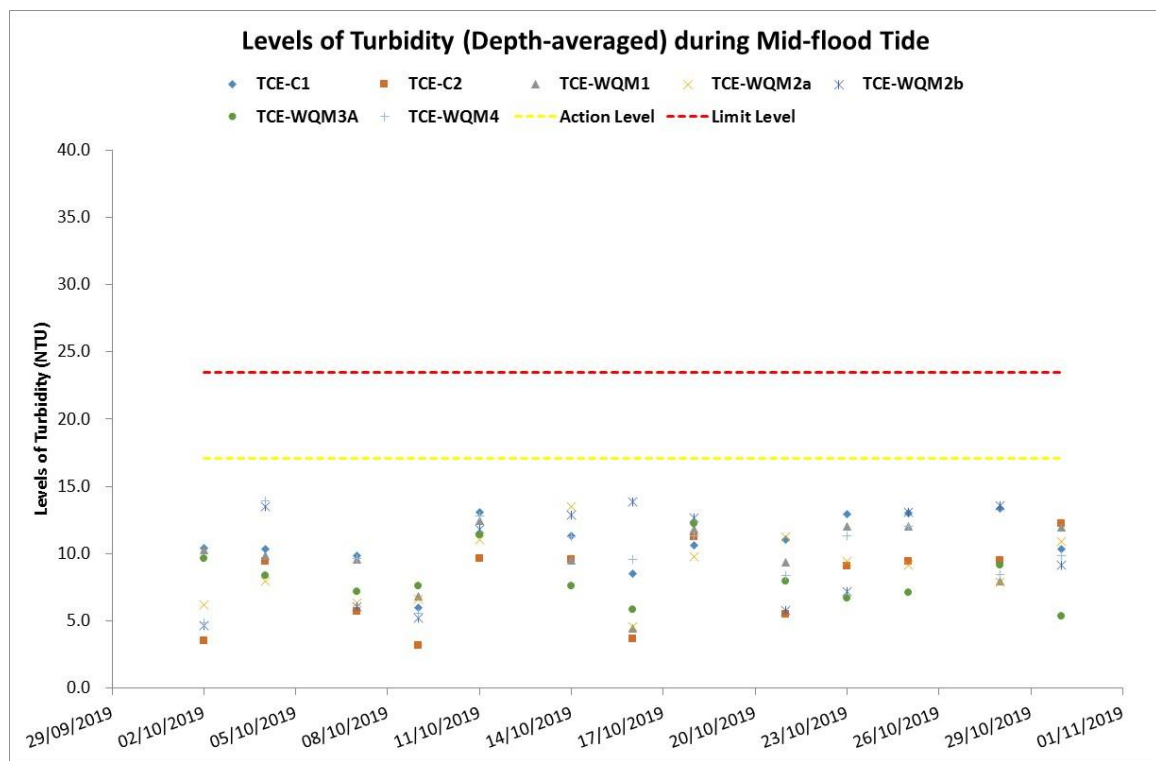


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 October 2019

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

Date: October 2019

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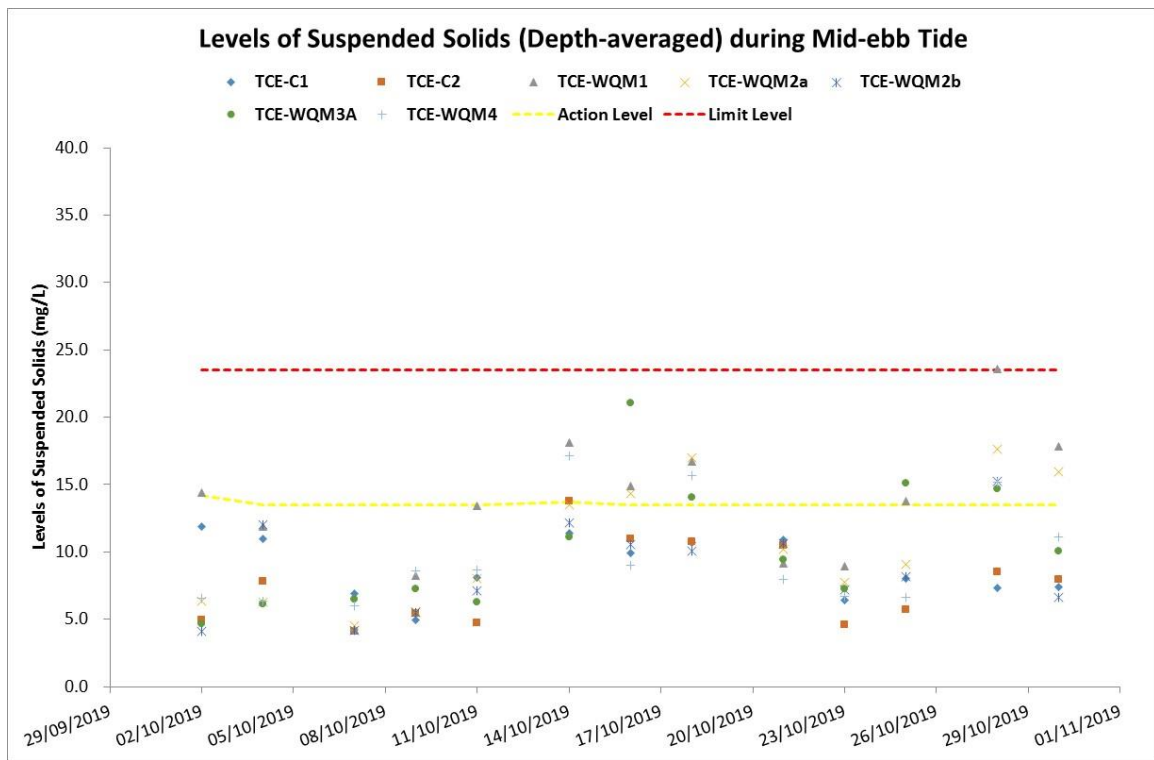


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 October 2019

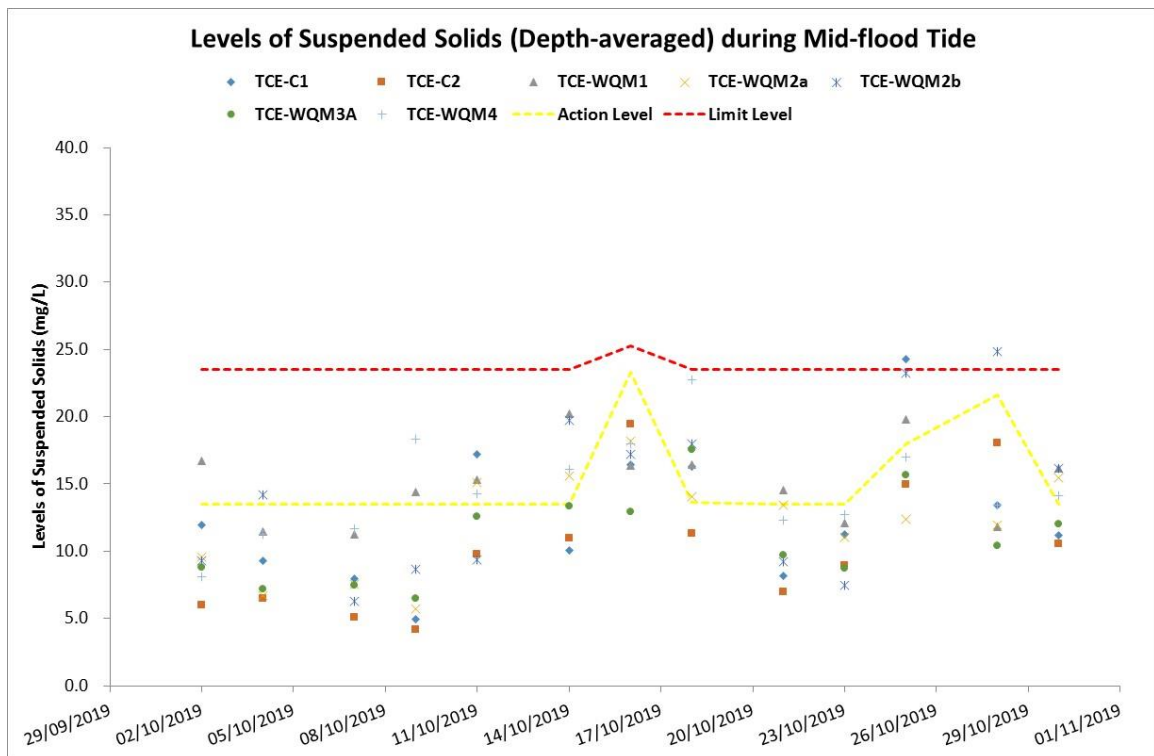


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 October 2019

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

Date: October 2019

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