

## **ANNEX C**

### **OPERATION PHASE WATER QUALITY MONITORING RESULTS**

Water Quality Monitoring Data Log Sheet

Date: 2023/07/06

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)		DA	Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)		DA*	Turbidity(NTU)		Total Residual Chlorine (mg/L)		Suspended Solids (mg/L)		Total Inorganic Nitrogen (mg/L)		5-day Biochemical Oxygen Demand (mg/L)					
									Value	Average		Value	Average	Value	Average	Value	Average	Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
Mid-Ebb	E2	Cloudy	Calm	14:12	9.2	S	0.15	90	28.5	28.5	26.9	25.8	25.8	8.3	8.3	130.7	131.3	8.8	8.8	6.4	2.3	2.3	4.1	<0.001	0.001	0.002	7.1	6.9	7.5	0.40	0.41	0.37	2.4	2.5
							0.15	90	28.5	28.5		25.8	25.8	8.3	8.3	131.8	131.3	8.9	8.8	2.3	2.3	6.6		6.9	7.5		0.41	0.41	0.37	2.5	2.5			
							0.21	157	26.6	26.7		28.6	28.5	8.0	8.0	57.0	58.1	3.9	4.0	2.7	2.7	4.4		4.6	7.5		0.43	0.43	0.37	1.2	1.3			
						0.21	157	26.8	26.7	28.3		28.5	8.0	8.0	59.1	58.1	4.0	4.0	2.7	2.7	4.8	4.6		7.5	0.42		0.43	0.37	1.3	1.3				
						0.37	37	25.5	25.4	31.6		31.7	7.9	7.9	36.0	35.3	2.5	2.4	7.2	7.3	10.7	11.0		7.5	0.29		0.29	0.37	<1.0	<1.0				
						0.39	85	25.4	25.4	31.7		31.7	7.9	7.9	34.5	35.3	2.4	2.4	7.4	7.3	11.2	11.0		7.5	0.29		0.29	0.37	<1.0	<1.0				
	IM6	Cloudy	Calm	13:37	17.1	S	0.33	121	28.6	28.6	26.0	23.3	23.3	8.2	8.2	118.5	118.9	8.1	8.1	6.0	2.6	2.6	4.8	<0.001	<0.001	0.001	4.2	4.4	6.8	0.62	0.62	0.32	2.1	2.0
							0.65	75	28.6	28.6		23.3	23.3	8.2	8.2	119.3	118.9	8.1	8.1	2.6	2.6	4.5		4.4	6.8		0.62	0.62	0.32	1.8	1.8			
							0.42	212	25.4	25.4		31.3	31.3	8.0	8.0	57.5	57.1	4.0	3.9	2.1	2.1	2.7		2.8	6.8		0.27	0.27	0.32	<1.0	<1.0			
						0.42	212	25.4	25.4	31.2		31.3	8.0	8.0	56.7	57.1	3.9	3.9	2.0	2.1	2.9	2.8		6.8	0.26		0.27	0.32	<1.0	<1.0				
						0.62	76	24.0	24.0	33.7		33.7	8.0	8.0	62.3	61.6	4.3	4.3	9.7	9.6	13.5	13.3		6.8	0.08		0.08	0.32	<1.0	<1.0				
						0.62	76	24.0	24.0	33.7		33.7	8.0	8.0	60.9	61.6	4.2	4.3	9.5	9.6	13.1	13.3		6.8	0.08		0.08	0.32	<1.0	<1.0				
Mid-Flood	F3	Cloudy	Calm	08:11	18.8	S	0.49	276	27.7	27.7	25.8	23.2	23.2	8.1	8.1	82.1	82.6	5.7	5.7	4.9	2.8	2.8	4.8	<0.001	<0.001	0.001	5.0	4.8	7.3	0.76	0.74	0.33	<1.0	<1.0
							0.54	244	27.8	27.8		23.3	23.3	8.1	8.1	83.1	82.6	5.7	5.7	2.8	2.8	4.5		4.8	7.3		0.71	0.74	0.33	<1.0	<1.0			
							0.54	248	25.6	25.6		31.6	31.7	8.1	8.1	62.1	61.3	4.2	4.2	2.0	1.9	2.8		2.9	7.3		0.17	0.17	0.33	1.6	1.3			
						0.54	248	25.7	25.6	31.7		31.7	8.1	8.1	60.4	61.3	4.1	4.2	1.8	1.9	3.0	2.9		7.3	0.17		0.17	0.33	1.0	1.3				
						0.58	3	24.1	24.1	33.8		33.8	8.1	8.1	61.2	61.1	4.2	4.2	9.8	9.7	14.0	14.2		7.3	0.07		0.07	0.33	<1.0	<1.0				
						0.58	3	24.1	24.1	33.8		33.8	8.1	8.1	60.9	61.1	4.2	4.2	9.6	9.7	14.4	14.2		7.3	0.07		0.07	0.33	<1.0	<1.0				
	IM6	Cloudy	Calm	07:57	17.2	S	0.54	199	27.6	27.6	25.7	24.4	24.7	8.1	8.1	77.3	79.3	5.3	5.4	4.8	2.1	2.2	4.3	<0.001	<0.001	<0.001	5.5	5.8	6.7	0.65	0.64	0.31	1.1	1.1
							0.38	251	27.6	27.6		25.0	25.0	8.1	8.0	81.2	80.6	5.6	5.6	2.2	2.3	6.1		6.7	6.7		0.62	0.64	0.31	<1.0	<1.0			
							0.71	325	25.1	25.2		31.8	31.7	8.0	8.0	60.6	60.6	4.2	4.2	2.4	2.3	3.7		3.5	6.7		0.22	0.22	0.31	<1.0	<1.0			
						0.16	227	25.2	25.2	31.6		31.6	8.0	8.0	60.6	60.6	4.2	4.2	2.1	2.3	3.2	3.5		6.7	0.21		0.22	0.31	<1.0	<1.0				
						0.54	4	24.2	24.2	33.6		33.6	8.0	8.0	60.8	60.5	4.2	4.2	9.1	8.5	11.2	10.9		6.7	0.08		0.08	0.31	<1.0	<1.0				
						0.36	340	24.2	24.2	33.6		33.6	8.0	8.0	60.1	60.5	4.2	4.2	7.9	8.5	10.6	10.9		6.7	0.08		0.08	0.31	<1.0	<1.0				

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/07/11

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Fine	Calm	18:42	9.0	S	0.14	210	28.6	28.5	26.8	26.8	8.6	8.6	190.3	193.5	12.7	12.9	1.6	1.5	<0.001	<0.001	<0.001	<0.001	6.6	6.2	6.3	6.3	0.19	0.19	0.23	0.23	3.1	3.3	2.3
							0.17	152	28.5		26.8		8.6		196.6		13.1		1.4		<0.001		5.7		0.19		3.5								
							0.28	79	27.1		28.5		8.3		103.4		7.0		1.5		<0.001		5.6		0.25		2.1								
						M	0.28	48	27.1	27.1	28.6	8.3	8.3	105.5	7.2	7.1	1.5	1.5	<0.001	<0.001	6.5	6.1	6.3	0.24	0.25	1.9	2.0								
							0.18	68	26.0	26.0	30.1	30.1	8.0	8.0	62.0	4.2	4.2	4.2	1.4	1.5	<0.001	<0.001	6.6	6.8	0.24	0.24	1.6	1.6							
							0.18	68	26.1	26.0	30.1	30.1	8.0	8.0	60.8	4.2	4.2	4.2	1.5	1.5	<0.001	<0.001	7.0	7.0	0.24	0.24	1.6	1.6							
	IM6	Fine	Calm	18:10	16.0	S	0.31	63	29.4	29.4	23.9	23.9	8.7	8.7	199.9	205.3	13.4	13.8	2.0	2.1	<0.001	<0.001	<0.001	<0.001	5.8	5.9	5.3	5.3	0.37	0.37	0.20	0.20	4.2	4.3	2.2
							0.31	63	29.4		23.9		8.7		210.6		14.1		1.3		<0.001		6.0		0.16		4.4								
							0.23	75	24.6		24.9		32.1		31.7		8.0		8.0		53.2		3.7		3.9		8.8		1.3		1.3		<0.001		2.9
						M	0.23	75	25.1	24.9	31.2	31.7	8.0	8.0	58.5	4.0	4.1	4.1	1.2	1.2	0.001	3.0	3.0	5.3	3.0	0.16	0.16	1.0	1.0						
							0.26	255	23.2	23.2	33.9	33.9	8.0	8.0	61.3	4.3	4.1	4.1	4.8	5.1	<0.001	6.7	7.1	5.3	7.1	0.08	0.08	<1.0	<1.0						
							0.17	352	23.2	23.2	33.9	33.9	8.0	8.0	54.2	3.8	4.1	4.1	5.3	5.1	<0.001	7.4	7.4	5.3	7.4	0.08	0.08	<1.0	<1.0						
Mid-Flood	F3	Fine	Calm	12:37	18.0	S	0.06	83	28.8	28.8	24.3	24.4	8.7	8.7	186.5	190.6	12.6	12.9	2.1	2.2	<0.001	<0.001	<0.001	<0.001	7.4	7.6	6.6	6.6	0.33	0.33	1.7	1.7	1.7		
							0.06	83	28.8		24.5		8.7		194.7		13.1		2.2		<0.001		7.8		0.10		2.9								
							0.30	282	23.7		23.7		33.4		33.4		8.0		8.0		51.0		3.6		3.6		8.2		2.0		1.9		<0.001	4.1	4.1
						M	0.24	216	23.7	23.7	33.5	33.4	8.0	8.0	50.8	3.6	3.6	3.8	1.8	1.9	<0.001	4.0	4.1	6.6	4.1	0.06	0.06	<1.0	<1.0						
							0.29	282	23.2	23.2	34.0	34.0	8.0	8.0	56.4	4.0	3.8	3.8	6.1	6.5	<0.001	8.3	8.1	6.6	8.1	0.06	0.06	<1.0	<1.0						
							0.29	282	23.2	23.2	34.0	34.0	8.0	8.0	52.2	3.7	3.8	3.8	6.8	6.5	<0.001	7.9	7.9	6.6	7.9	0.06	0.06	<1.0	<1.0						
	IM6	Fine	Calm	12:24	16.3	S	0.69	145	28.9	28.9	24.9	24.9	8.5	8.5	155.8	159.9	10.5	10.7	2.0	2.0	<0.001	<0.001	<0.001	<0.001	6.7	6.9	6.6	6.6	0.35	0.35	1.5	1.5	1.5		
							0.69	145	29.0		24.8		8.5		164.0		11.0		2.0		0.004		7.1		0.14		2.4								
							0.34	353	24.6		24.7		32.2		32.0		8.0		8.0		57.6		4.0		3.9		7.3		1.5		1.5		<0.001	4.3	4.4
						M	0.34	353	24.8	24.7	31.9	32.0	8.0	8.0	56.2	3.9	3.9	4.0	1.4	1.5	<0.001	4.5	4.4	6.6	4.4	0.14	0.14	<1.0	<1.0						
							0.11	38	23.3	23.3	33.9	33.9	8.0	8.0	59.0	4.1	4.0	4.0	5.5	5.8	<0.001	8.2	8.5	6.6	8.5	0.06	0.06	<1.0	<1.0						
							0.07	326	23.3	23.3	33.9	33.9	8.0	8.0	54.1	3.8	4.0	4.0	6.0	5.8	<0.001	8.8	8.8	6.6	8.8	0.06	0.06	<1.0	<1.0						

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/07/22

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Cloudy	Calm	14:33	9.5	S	0.41	92	29.5	29.5	30.1	30.1	8.7	8.7	238.3	237.8	15.4	15.4	12.0	1.0	1.0	4.3	<0.001	<0.001	<0.001	5.3	5.3	8.4	<0.02	<0.02	0.06	2.6	2.7	1.6	
							0.39	108	29.5	28.2	30.0	31.0	8.7	8.4	237.2	132.3	15.3	8.7	12.0	1.0	2.2	<0.001	<0.001	<0.001	5.3	6.4	8.4	<0.02	<0.02	0.06	2.7	1.2	1.6		
							0.33	89	28.2	28.2	31.0	31.0	8.4	8.4	129.2	132.3	8.5	8.7	12.0	2.3	2.2	<0.001	<0.001	<0.001	6.2	6.4	8.4	0.03	0.03	0.06	1.3	1.2	1.6		
							0.09	1	28.2	28.2	31.0	31.0	8.4	8.4	135.3	132.3	8.9	8.7	12.0	2.0	2.2	<0.001	<0.001	<0.001	6.6	6.4	8.4	0.03	0.03	0.06	1.0	1.2	1.6		
							0.21	352	27.5	27.5	31.8	31.8	8.2	8.2	84.2	83.3	5.6	5.5	5.5	9.9	9.7	<0.001	<0.001	<0.001	13.2	13.4	8.4	0.15	0.14	0.06	<1.0	<1.0	1.6		
							0.21	352	27.5	27.5	31.8	31.8	8.2	8.2	82.4	83.3	5.5	5.5	5.5	9.5	9.7	<0.001	<0.001	<0.001	13.6	13.4	8.4	0.13	0.14	0.06	<1.0	<1.0	1.6		
	IM6	Cloudy	Calm	14:01	17.0	S	0.14	102	29.4	29.5	29.6	29.6	8.5	8.5	198.2	196.5	12.9	12.7	9.2	0.8	0.9	2.4	<0.001	<0.001	<0.001	4.4	4.6	5.7	0.02	0.03	0.05	2.2	2.2	1.4	
							0.42	197	29.5	29.5	29.5	29.6	8.5	8.5	194.8	196.5	12.6	12.7	9.2	0.9	0.9	2.4	<0.001	<0.001	<0.001	4.7	4.6	5.7	0.03	0.03	0.05	2.2	2.2	1.4	
							0.43	72	27.1	27.1	32.3	32.3	8.2	8.2	84.1	83.8	5.6	5.6	5.2	0.7	0.8	2.4	<0.001	<0.001	<0.001	5.5	5.3	5.7	0.07	0.07	0.05	<1.0	<1.0	1.4	
							0.34	163	27.1	27.1	32.4	32.4	8.2	8.2	83.5	83.8	5.5	5.6	5.2	0.8	0.8	2.4	<0.001	<0.001	<0.001	5.1	5.3	5.7	0.07	0.07	0.05	<1.0	<1.0	1.4	
							0.31	276	26.9	26.9	33.2	33.2	8.1	8.1	79.2	78.3	5.3	5.2	5.2	5.4	5.5	2.4	<0.001	<0.001	<0.001	7.3	7.1	5.7	0.04	0.04	0.05	<1.0	<1.0	1.4	
							0.31	276	26.9	26.9	33.2	33.2	8.1	8.1	77.4	78.3	5.1	5.2	5.2	5.6	5.5	2.4	<0.001	<0.001	<0.001	6.9	7.1	5.7	0.04	0.04	0.05	<1.0	<1.0	1.4	
Mid-Flood	F3	Cloudy	Calm	07:39	17.0	S	0.43	345	28.9	28.9	28.5	28.6	8.5	8.5	153.8	155.4	10.1	10.2	7.9	1.3	1.3	1.9	<0.001	<0.001	<0.001	4.1	4.3	5.4	0.04	0.12	0.06	1.1	1.1	1.2	
							0.46	341	29.0	29.0	28.8	28.8	8.5	8.5	156.9	155.4	10.3	10.2	7.9	1.2	1.3	1.9	<0.001	<0.001	<0.001	4.4	4.3	5.4	0.20	0.12	0.06	1.1	1.1	1.2	
							0.32	102	27.2	27.2	32.6	32.6	8.2	8.2	84.9	85.5	5.6	5.7	5.2	1.0	1.0	1.9	<0.001	<0.001	<0.001	5.6	5.4	5.4	<0.02	<0.02	0.06	1.5	1.4	1.2	
							0.27	30	27.3	27.3	32.5	32.6	8.2	8.2	86.1	85.5	5.7	5.7	5.2	0.9	1.0	1.9	<0.001	<0.001	<0.001	5.2	5.4	5.4	<0.02	<0.02	0.06	1.3	1.4	1.2	
							0.46	283	26.9	26.9	33.2	33.2	8.2	8.2	78.2	78.0	5.2	5.2	5.2	3.6	3.5	1.9	<0.001	<0.001	<0.001	6.4	6.6	5.4	0.04	0.04	0.06	<1.0	<1.0	1.2	
							0.46	283	26.9	26.9	33.2	33.2	8.2	8.2	77.7	78.0	5.2	5.2	5.2	3.4	3.5	1.9	<0.001	<0.001	<0.001	6.8	6.6	5.4	0.04	0.04	0.06	<1.0	<1.0	1.2	
	IM6	Cloudy	Calm	07:25	15.0	S	0.31	26	28.7	28.7	27.8	27.8	8.3	8.3	123.2	123.2	8.2	8.2	7.0	1.5	1.6	4.9	<0.001	<0.001	<0.001	5.1	5.2	8.8	0.28	0.29	0.14	<1.0	<1.0	<1.0	
							0.29	261	28.7	28.7	27.8	27.8	8.3	8.3	123.1	123.2	8.2	8.2	7.0	1.6	1.6	4.9	<0.001	<0.001	<0.001	5.3	5.2	8.8	0.30	0.29	0.14	<1.0	<1.0	<1.0	
							0.58	351	27.4	27.4	32.4	32.4	8.2	8.2	87.7	89.0	5.8	5.9	5.0	1.6	1.6	4.9	<0.001	<0.001	0.002	6.7	6.4	8.8	0.06	0.07	0.14	<1.0	<1.0	<1.0	
							0.28	351	27.4	27.4	32.3	32.4	8.2	8.2	90.2	89.0	6.0	5.9	5.0	1.6	1.6	4.9	<0.001	<0.001	0.002	6.1	6.4	8.8	0.07	0.07	0.14	<1.0	<1.0	<1.0	
							0.30	218	26.9	26.9	33.2	33.2	8.2	8.2	75.6	75.4	5.0	5.0	5.0	11.8	11.6	4.9	<0.001	0.003	0.002	14.4	14.7	8.8	0.05	0.05	0.14	<1.0	<1.0	<1.0	
							0.10	27	26.9	26.9	33.2	33.2	8.2	8.2	75.2	75.4	5.0	5.0	5.0	11.4	11.6	4.9	0.004	0.003	0.002	15.0	14.7	8.8	0.05	0.05	0.14	<1.0	<1.0	<1.0	

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/07/25

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)			
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value
Mid-Ebb	E2	Fine	Calm	16:09	9.1	S	0.18	10	30.9	30.9	28.2	28.2	8.7	8.7	197.7	197.0	12.6	12.6	12.8	0.7	0.7	2.1	<0.001	<0.001	0.002	3.3	3.2	4.9	0.09	0.09	0.08	2.0	2.1	1.8		
							0.22	105	30.9	29.7	29.6	8.7	8.7	188.3	201.5	12.2	13.0	0.6	0.7	<0.001	0.004	0.007	4.1	4.0	0.02	0.02	0.02	3.0	4.0	0.02	0.02	0.02	2.1	2.3		
							0.13	57	30.0	29.5	29.5	8.7	8.7	214.7	13.8	13.8	0.7	0.7	<0.001	<0.001	<0.001	0.004	0.007	4.1	4.0	0.02	0.02	0.02	3.0	4.0	0.02	0.02	0.02	2.1	2.3	
						0.48	81	27.5	32.1	32.1	8.0	8.0	85.1	69.1	5.6	4.6	4.6	4.7	4.9	<0.001	<0.001	<0.001	0.004	0.007	4.1	4.0	0.02	0.02	0.02	3.0	4.0	0.02	0.02	0.02	2.1	2.3
						0.25	98	27.5	32.1	32.1	8.0	8.0	53.1	69.1	3.5	4.6	4.6	5.1	4.9	<0.001	<0.001	<0.001	0.004	0.007	4.1	4.0	0.02	0.02	0.02	3.0	4.0	0.02	0.02	0.02	2.1	2.3
						0.25	98	31.4	26.3	26.3	8.7	8.7	192.4	192.1	12.3	12.3	9.1	0.0	0.0	<0.001	<0.001	<0.001	0.004	0.007	4.1	4.0	0.02	0.02	0.02	3.0	4.0	0.02	0.02	0.02	2.1	2.3
	IM6	Fine	Calm	15:36	17.0	S	0.14	33	27.5	27.5	32.0	32.0	8.2	8.2	88.1	89.6	5.8	5.9	9.1	0.7	0.8	3.5	<0.001	<0.001	<0.001	2.1	2.2	5.9	0.04	0.19	0.10	1.3	1.5	1.7		
							0.20	85	27.5	32.0	32.0	8.2	8.2	91.1	89.6	6.0	5.9	9.1	0.8	0.8	<0.001	<0.001	<0.001	0.004	0.007	4.1	2.6	5.9	0.04	0.04	0.04	1.3	1.5			
							0.23	101	26.7	33.5	33.5	8.1	8.1	58.3	58.4	3.9	3.9	3.9	9.8	9.7	<0.001	<0.001	<0.001	0.004	0.007	4.1	2.6	5.9	0.04	0.04	0.04	1.3	1.5			
						0.24	69	26.7	33.5	33.5	8.1	8.1	58.4	58.4	3.9	3.9	3.9	9.6	9.7	<0.001	<0.001	<0.001	0.004	0.007	4.1	2.6	5.9	0.04	0.04	0.04	1.3	1.5				
						0.22	188	29.8	26.7	26.6	8.7	8.7	183.6	184.2	12.0	12.1	8.4	0.9	1.0	<0.001	<0.001	<0.001	0.004	0.007	4.1	2.6	5.9	0.04	0.04	0.04	1.3	1.5				
						0.22	188	29.8	26.5	26.6	8.7	8.7	184.8	184.2	12.1	12.1	8.4	1.0	1.0	<0.001	<0.001	<0.001	0.004	0.007	4.1	2.6	5.9	0.04	0.04	0.04	1.3	1.5				
Mid-Flood	F3	Fine	Calm	09:40	18.0	M	0.26	94	27.0	27.0	32.7	32.7	8.2	8.2	70.3	70.4	4.7	4.7	3.0	1.1	1.1	3.0	<0.001	<0.001	<0.001	2.8	3.0	4.9	0.06	0.06	0.10	<1.0	<1.0	1.1		
							0.18	262	27.0	32.7	32.7	8.2	8.2	70.5	70.4	4.7	4.7	3.0	1.0	1.1	<0.001	<0.001	<0.001	0.004	0.007	4.1	3.9	4.9	0.06	0.06	0.06	<1.0	<1.0			
							0.08	231	26.6	33.4	33.4	8.1	8.1	60.8	60.0	4.0	4.0	4.0	6.6	7.0	<0.001	<0.001	<0.001	0.004	0.007	4.1	3.9	4.9	0.06	0.06	0.06	<1.0	<1.0			
						0.36	83	29.9	26.7	26.6	8.7	8.7	172.3	180.1	11.3	11.8	8.5	0.6	0.6	<0.001	<0.001	<0.001	0.004	0.007	4.1	4.0	7.0	0.05	0.05	0.05	1.7	1.7				
						0.36	83	29.9	26.6	26.6	8.7	8.7	187.9	180.1	12.3	11.8	8.5	0.6	0.6	0.006	0.004	0.003	0.004	0.007	4.1	4.2	7.0	0.05	0.05	0.05	1.7	1.7				
						0.35	5	27.3	32.1	32.3	8.2	8.2	80.9	77.8	5.4	5.2	8.5	1.1	1.2	<0.001	0.001	0.003	0.004	0.007	4.1	4.2	7.0	0.05	0.05	0.05	1.7	1.7				
	IM6	Fine	Calm	09:20	17.2	M	0.15	327	27.1	27.2	32.5	32.3	8.2	8.2	74.6	77.8	5.0	5.2	3.4	1.2	1.2	3.4	0.001	0.001	0.003	4.6	4.8	7.0	0.05	0.05	0.09	<1.0	<1.0	1.2		
							0.19	334	26.7	33.3	33.3	8.1	8.1	65.6	63.2	4.4	4.2	4.2	8.1	8.3	<0.001	0.004	0.003	0.004	0.007	4.1	4.8	7.0	0.05	0.05	0.05	<1.0	<1.0			
							0.32	139	26.7	33.3	33.3	8.1	8.1	60.8	63.2	4.0	4.2	4.2	8.5	8.3	0.006	0.004	0.003	0.004	0.007	4.1	4.8	7.0	0.05	0.05	0.05	<1.0	<1.0			
						0.32	139	26.7	33.3	33.3	8.1	8.1	60.8	63.2	4.0	4.2	4.2	8.5	8.3	0.006	0.004	0.003	0.004	0.007	4.1	4.8	7.0	0.05	0.05	0.05	<1.0	<1.0				
						0.32	139	26.7	33.3	33.3	8.1	8.1	60.8	63.2	4.0	4.2	4.2	8.5	8.3	0.006	0.004	0.003	0.004	0.007	4.1	4.8	7.0	0.05	0.05	0.05	<1.0	<1.0				
						0.32	139	26.7	33.3	33.3	8.1	8.1	60.8	63.2	4.0	4.2	4.2	8.5	8.3	0.006	0.004	0.003	0.004	0.007	4.1	4.8	7.0	0.05	0.05	0.05	<1.0	<1.0				

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/07/31

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Fine	Rough	13:01	8.2	S	0.39	199	29.6	29.6	26.2	26.2	8.3	8.3	116.1	117.2	7.7	7.7	6.1	0.8	0.8	<0.001	<0.001	<0.001	2.8	2.7	6.6	0.34	0.34	0.25	<1.0	<1.0	<1.0		
							0.10	283	29.6	28.1	26.2	26.2	8.3	8.3	118.3	117.2	7.8	7.7	6.1	0.7	0.8	<0.001	<0.001	<0.001	2.6	2.7	6.6	0.34	0.34	0.25	<1.0	<1.0	<1.0		
							0.56	121	28.2	28.1	30.3	30.4	8.0	8.0	68.6	66.9	4.5	4.4	6.1	4.9	5.1	<0.001	<0.001	<0.001	6.8	6.9	6.6	0.21	0.21	0.25	<1.0	<1.0	<1.0		
						0.56	121	28.1	28.1	30.5	30.4	8.0	8.0	65.1	66.9	4.3	4.4	6.1	5.3	5.1	<0.001	<0.001	<0.001	7.0	6.9	6.6	0.21	0.21	0.25	<1.0	<1.0	<1.0			
						0.17	224	27.8	27.8	31.2	31.2	7.9	7.9	56.2	56.3	3.7	3.7	3.7	7.7	7.7	<0.001	<0.001	<0.001	10.4	10.3	6.6	0.19	0.19	0.25	<1.0	<1.0	<1.0			
						0.64	99	27.9	27.8	31.2	31.2	8.0	7.9	56.4	56.3	3.7	3.7	3.7	7.7	7.7	<0.001	<0.001	<0.001	10.1	10.3	6.6	0.19	0.19	0.25	<1.0	<1.0	<1.0			
	IM6	Fine	Rough	13:32	15.0	S	0.37	199	29.6	29.6	26.3	26.3	8.3	8.3	114.8	115.5	7.6	7.6	5.6	0.6	0.7	<0.001	<0.001	<0.001	2.7	3.0	5.4	0.32	0.31	0.21	<1.0	<1.0	1.0		
							0.37	199	29.6	29.6	26.4	26.3	8.3	8.3	116.2	115.5	7.7	7.6	5.6	0.7	0.7	<0.001	<0.001	<0.001	3.2	3.0	5.4	0.30	0.31	0.21	<1.0	<1.0	1.0		
							0.05	51	27.4	27.4	31.7	31.7	8.0	8.0	53.9	53.9	3.6	3.6	5.6	4.0	4.1	<0.001	<0.001	<0.001	6.1	6.3	5.4	0.16	0.16	0.21	<1.0	<1.0	<1.0		
						0.65	164	27.4	27.4	31.7	31.7	8.0	8.0	53.9	53.9	3.6	3.6	5.6	4.2	4.1	<0.001	<0.001	<0.001	6.4	6.3	5.4	0.16	0.16	0.21	<1.0	<1.0	<1.0			
						0.25	304	26.9	26.9	32.5	32.5	8.0	8.0	43.6	43.3	2.9	2.9	2.9	6.0	5.9	<0.001	<0.001	<0.001	6.9	7.1	5.4	0.15	0.15	0.21	<1.0	<1.0	<1.0			
						0.39	15	27.0	26.9	32.5	32.5	8.0	8.0	42.9	43.3	2.9	2.9	2.9	5.8	5.9	<0.001	<0.001	<0.001	7.3	7.1	5.4	0.14	0.15	0.21	<1.0	<1.0	<1.0			
Mid-Flood	F3	Fine	Rough	18:05	16.7	S	0.47	349	29.8	29.8	26.2	26.2	8.4	8.4	119.0	119.7	7.8	7.9	5.9	0.5	0.5	<0.001	<0.001	<0.001	2.5	2.7	7.4	0.33	0.33	0.21	<1.0	<1.0	1.1		
							0.28	20	29.8	29.8	26.3	26.2	8.4	8.4	120.4	119.7	7.9	7.9	5.9	0.5	0.5	<0.001	<0.001	<0.001	2.8	2.7	7.4	0.33	0.33	0.21	<1.0	<1.0	1.1		
							0.36	231	27.7	27.8	31.3	31.0	8.0	8.0	57.2	58.6	3.8	3.9	5.9	3.9	3.7	<0.001	<0.001	<0.001	5.0	4.8	7.4	0.19	0.20	0.21	<1.0	<1.0	<1.0		
						0.13	338	27.9	27.8	30.6	31.0	8.0	8.0	59.9	58.6	4.0	4.0	5.9	3.5	3.7	<0.001	<0.001	<0.001	4.6	4.8	7.4	0.20	0.20	0.21	<1.0	<1.0	<1.0			
						0.55	310	26.2	26.2	33.3	33.3	7.9	7.9	45.0	44.7	3.0	3.0	3.0	11.2	11.3	<0.001	<0.001	<0.001	14.9	14.7	7.4	0.11	0.11	0.21	<1.0	<1.0	<1.0			
						0.04	123	26.2	26.2	33.3	33.3	7.9	7.9	44.4	44.7	3.0	3.0	3.0	11.4	11.3	<0.001	<0.001	<0.001	14.4	14.7	7.4	0.10	0.11	0.21	<1.0	<1.0	<1.0			
	IM6	Fine	Rough	17:50	15.4	S	0.40	9	29.4	29.2	27.2	27.7	8.3	8.3	110.9	106.7	7.3	7.0	5.4	1.2	1.3	<0.001	<0.001	<0.001	2.8	2.8	6.1	0.29	0.30	0.22	<1.0	<1.0	1.1		
							0.40	9	29.0	29.2	28.1	27.7	8.2	8.3	102.5	106.7	6.8	7.0	5.4	1.3	1.3	<0.001	<0.001	<0.001	2.8	2.8	6.1	0.30	0.30	0.22	<1.0	<1.0	1.1		
							0.46	106	27.8	27.8	30.7	30.8	8.0	8.0	56.3	56.3	3.7	3.7	5.4	5.3	5.4	<0.001	<0.001	0.003	7.6	7.5	6.1	0.21	0.21	0.22	<1.0	<1.0	<1.0		
						0.12	271	27.8	27.8	30.8	30.8	8.0	8.0	56.3	56.3	3.7	3.7	5.4	5.5	5.4	<0.001	<0.001	0.003	7.3	7.5	6.1	0.20	0.21	0.22	<1.0	<1.0	<1.0			
						0.37	333	26.5	26.5	33.0	33.0	7.9	7.9	40.1	39.8	2.7	2.7	2.7	16.8	16.7	<0.001	0.006	0.003	8.3	8.1	6.1	0.14	0.15	0.22	<1.0	<1.0	<1.0			
						0.56	163	26.5	26.5	33.0	33.0	7.9	7.9	39.4	39.8	2.6	2.7	2.7	16.5	16.7	0.011	0.006	0.003	7.9	8.1	6.1	0.15	0.15	0.22	<1.0	<1.0	<1.0			

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/08/09

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)					
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Cloudy	Calm	17:50	8.9	S	0.30	122	30.0	30.0	28.8	28.8	8.4	8.4	172.6	173.4	11.1	11.2	9.2	0.7	0.7	1.5	<0.001	<0.001	<0.001	<0.001	4.2	4.0	4.6	4.6	0.10	0.10	0.13	0.13	2.0	1.8	1.4	1.4
							0.18	32	30.0		28.8		8.4		174.2		11.2		0.6	<0.001		3.8	0.10		1.6													
							0.41	322	28.6		30.1		8.2		109.4		7.2		1.0	<0.001		4.4	0.14		1.3													
						M	0.07	290	28.7	28.7	30.0	30.1	8.2	8.2	113.0	7.4	7.3	1.0	<0.001	4.8	0.14	1.4																
							0.06	168	27.2	27.1	32.1	32.4	8.0	8.0	65.4	4.3	4.0	4.0	2.8	3.0	<0.001	5.4	5.3	0.14	0.14	<1.0	<1.0											
							0.52	49	26.9	32.6	32.6	32.4	8.0	8.0	56.5	3.8	4.0	4.0	3.1	3.0	<0.001	5.1	5.3	0.14	0.14	<1.0	<1.0											
	IM6	Cloudy	Calm	17:20	16.2	S	0.09	245	30.0	30.0	28.1	28.1	8.4	8.4	169.7	170.4	11.0	11.0	7.8	0.5	0.5	4.8	<0.001	0.001	0.004	0.002	3.4	3.6	8.2	8.2	0.16	0.16	0.10	0.10	2.2	2.2	1.4	1.4
							0.09	245	30.1		28.1		8.4		171.1		11.1		0.5	0.007		3.8	0.16		1.9													
							0.28	325	26.1		26.1		33.6		33.6		8.0		8.0	68.5		4.6	4.6		4.6		2.8		2.6		<0.001		4.2		4.4		0.09	
						M	0.56	33	26.1	26.1	33.6	33.6	8.0	8.0	68.6	4.6	4.6	4.7	2.4	2.6	0.001	4.5	4.4	0.08	0.08	<1.0	<1.0											
							0.62	44	25.7	25.7	33.8	33.8	8.0	8.0	69.1	4.7	4.7	4.7	11.2	11.2	<0.001	16.3	16.6	0.06	0.06	<1.0	<1.0											
							0.62	44	25.7	25.7	33.8	33.8	8.0	8.0	69.7	4.7	4.7	4.7	11.1	11.2	<0.001	16.8	16.6	0.06	0.06	<1.0	<1.0											
Mid-Flood	F3	Cloudy	Calm	12:27	17.6	S	0.31	10	29.2	29.3	27.8	27.7	8.2	8.2	123.4	124.6	8.1	8.2	6.0	0.7	0.7	4.3	<0.001	<0.001	<0.001	<0.001	3.1	3.3	7.5	7.5	0.28	0.28	1.0	1.1	1.0	1.0		
							0.38	26	29.3		27.7		8.3		125.7		8.3		0.6	<0.001		5.1	0.28		1.2													
							0.37	216	26.6		26.5		33.3		33.3		8.0		8.0	57.8		3.9	3.9		3.9		1.8		1.7		<0.001		4.6		4.9		0.11	0.11
						M	0.76	248	26.5	26.5	33.4	33.3	8.0	8.0	59.5	4.0	3.9	4.0	1.6	1.7	<0.001	14.4	14.2	0.05	0.05	<1.0	<1.0											
							0.46	320	25.7	25.7	33.8	33.8	8.1	8.1	69.2	4.7	4.7	4.7	10.8	10.5	<0.001	14.4	14.2	0.05	0.05	<1.0	<1.0											
							0.46	320	25.7	25.7	33.8	33.8	8.1	8.1	69.0	4.7	4.7	4.7	10.2	10.5	<0.001	14.0	14.2	0.05	0.05	<1.0	<1.0											
	IM6	Cloudy	Calm	12:15	16.2	S	0.21	355	28.6	28.8	29.2	28.4	8.1	8.1	95.3	98.1	6.3	6.5	5.5	0.5	0.5	3.9	<0.001	<0.001	<0.001	<0.001	3.4	3.3	6.7	6.7	0.30	0.30	1.0	1.0	1.0	1.0		
							0.21	355	29.0		27.7		8.2		100.9		6.7		0.5	<0.001		3.2	0.30		1.0													
							1.16	164	26.2		26.2		33.5		33.5		8.0		8.0	66.7		4.5	4.5		4.5		2.9		2.9		<0.001		4.4		4.3		0.09	0.10
						M	0.34	6	26.2	26.2	33.5	33.5	8.0	8.0	66.4	4.5	4.5	4.5	2.8	2.9	<0.001	4.2	4.3	0.10	0.10	<1.0	<1.0											
							0.76	35	25.8	25.8	33.7	33.7	8.0	8.0	66.6	4.5	4.5	4.5	8.5	8.4	<0.001	12.2	12.5	0.05	0.06	<1.0	<1.0											
							0.26	102	25.8	25.8	33.7	33.7	8.0	8.0	66.3	4.5	4.5	4.5	8.3	8.4	<0.001	12.8	12.5	0.06	0.06	<1.0	<1.0											

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/08/14

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Cloudy	Calm	10:44	9.0	S	0.46	50	28.3	28.3	27.4	27.4	8.3	8.3	120.7	121.1	8.1	8.1	6.8	1.0	1.0	<0.001	<0.001	<0.001	2.7	2.9	4.2	0.33	0.33	0.21	<1.0	<1.0	<1.0		
							0.46	50	28.3	28.3	27.4	27.4	8.3	8.3	121.4	121.1	8.1	8.1	6.8	0.9	0.7	<0.001	<0.001	<0.001	3.1	2.9	4.2	0.33	0.33	0.21	<1.0	<1.0	<1.0		
							0.10	290	27.2	27.2	30.6	30.6	8.1	8.1	82.9	83.2	5.5	5.6	6.8	0.7	0.7	<0.001	<0.001	<0.001	4.1	4.4	4.2	0.18	0.18	0.21	<1.0	<1.0	<1.0		
						0.10	290	27.3	27.2	30.5	30.6	8.1	8.1	83.4	83.2	5.6	5.6	6.8	0.7	0.7	<0.001	<0.001	<0.001	4.6	4.4	4.2	0.18	0.18	0.21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
						0.23	120	26.6	26.6	32.6	32.7	7.9	7.9	45.1	44.3	3.0	3.0	3.0	2.4	2.5	<0.001	<0.001	<0.001	5.2	5.4	4.2	0.12	0.13	0.21	<1.0	<1.0	<1.0	<1.0	<1.0	
						0.43	37	26.5	26.6	32.7	32.7	7.9	7.9	43.5	44.3	2.9	3.0	3.0	2.5	2.5	<0.001	<0.001	<0.001	5.5	5.4	4.2	0.13	0.13	0.21	<1.0	<1.0	<1.0	<1.0	<1.0	
	IM6	Cloudy	Calm	11:15	17.2	S	0.36	202	28.6	28.6	26.4	26.4	8.3	8.3	116.9	117.6	7.8	7.9	6.3	0.7	0.7	<0.001	<0.001	<0.001	3.0	2.9	6.5	0.39	0.39	0.18	<1.0	<1.0	<1.0		
							0.26	129	28.6	28.6	26.5	26.4	8.3	8.3	118.2	117.6	7.9	7.9	6.3	0.7	0.7	<0.001	<0.001	<0.001	2.8	2.9	6.5	0.39	0.39	0.18	<1.0	<1.0	<1.0		
							0.52	155	26.5	26.6	32.9	32.9	8.1	8.1	71.8	72.2	4.8	4.8	6.3	0.5	0.5	<0.001	<0.001	<0.001	3.6	3.4	6.5	0.09	0.10	0.18	<1.0	<1.0	<1.0		
						0.52	155	26.6	26.6	32.9	32.9	8.1	8.1	72.5	72.2	4.8	4.8	6.3	0.5	0.5	<0.001	<0.001	<0.001	3.2	3.4	6.5	0.10	0.10	0.18	<1.0	<1.0	<1.0			
						0.72	81	24.9	24.9	33.9	33.9	8.0	8.0	63.2	62.9	4.3	4.3	4.3	9.5	9.9	<0.001	<0.001	<0.001	13.5	13.3	6.5	0.06	0.06	0.18	<1.0	<1.0	<1.0			
						0.59	32	24.9	24.9	33.9	33.9	8.0	8.0	62.6	62.9	4.3	4.3	4.3	10.3	9.9	<0.001	<0.001	<0.001	13.1	13.3	6.5	0.06	0.06	0.18	<1.0	<1.0	<1.0			
Mid-Flood	F3	Cloudy	Calm	18:05	17.5	S	0.64	329	28.5	28.5	27.2	27.2	8.3	8.3	125.1	126.2	8.3	8.4	6.3	0.6	0.6	<0.001	<0.001	<0.001	3.0	2.9	6.3	0.35	0.35	0.17	<1.0	<1.0	<1.0		
							0.41	349	28.5	28.5	27.2	27.2	8.3	8.3	127.2	126.2	8.5	8.4	6.3	0.6	0.6	<0.001	<0.001	<0.001	2.8	2.9	6.3	0.35	0.35	0.17	<1.0	<1.0	<1.0		
							0.63	259	26.2	26.1	33.1	33.1	8.0	8.0	61.9	61.9	4.2	4.2	6.3	2.6	2.7	<0.001	<0.001	<0.001	3.8	4.1	6.3	0.11	0.11	0.17	<1.0	<1.0	<1.0		
						0.50	256	26.0	26.1	33.2	33.1	8.0	8.0	61.9	61.9	4.2	4.2	6.3	2.8	2.7	<0.001	<0.001	<0.001	4.3	4.1	6.3	0.10	0.11	0.17	<1.0	<1.0	<1.0			
						0.42	255	24.8	24.8	33.8	33.8	8.0	8.0	65.3	65.2	4.5	4.5	4.5	8.8	9.4	<0.001	<0.001	<0.001	12.2	12.0	6.3	0.06	0.06	0.17	<1.0	<1.0	<1.0			
						0.40	158	24.8	24.8	33.8	33.8	8.0	8.0	65.0	65.2	4.5	4.5	4.5	9.9	9.4	<0.001	<0.001	<0.001	11.8	12.0	6.3	0.06	0.06	0.17	<1.0	<1.0	<1.0			
	IM6	Cloudy	Calm	17:54	16.1	S	0.55	290	28.1	28.1	28.6	28.6	8.2	8.2	112.6	113.2	7.5	7.5	6.0	0.6	0.6	<0.001	<0.001	<0.001	3.1	3.3	10.5	0.29	0.29	0.14	<1.0	<1.0	<1.0		
							0.55	290	28.1	28.1	28.6	28.6	8.2	8.2	113.7	113.2	7.6	7.5	6.0	0.6	0.6	<0.001	<0.001	<0.001	3.5	3.3	10.5	0.29	0.29	0.14	<1.0	<1.0	<1.0		
							1.27	206	25.4	25.4	33.4	33.4	8.0	8.0	65.4	65.4	4.4	4.4	6.0	6.3	6.0	<0.001	<0.001	0.001	9.8	10.0	10.5	0.08	0.08	0.14	<1.0	<1.0	<1.0		
						0.67	51	25.5	25.4	33.4	33.4	8.0	8.0	65.3	65.4	4.4	4.4	6.0	5.6	6.0	<0.001	<0.001	0.001	10.1	10.0	10.5	0.07	0.08	0.14	<1.0	<1.0	<1.0			
						0.58	216	25.1	25.1	33.7	33.7	8.0	8.0	64.0	63.9	4.4	4.4	4.4	10.8	10.4	<0.001	<0.001	0.002	18.6	18.3	10.5	0.06	0.06	0.14	<1.0	<1.0	<1.0			
						0.58	216	25.1	25.1	33.7	33.7	8.0	8.0	63.8	63.9	4.4	4.4	4.4	9.9	10.4	<0.001	<0.001	0.002	18.0	18.3	10.5	0.06	0.06	0.14	<1.0	<1.0	<1.0			

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed



Water Quality Monitoring Data Log Sheet

Date: 2023/08/22

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Fine	Calm	15:15	9.0	S	0.33	193	28.0	28.0	30.1	8.3	139.7	144.8	9.3	9.6	7.5	1.7	1.7	2.8	<0.001	<0.001	0.002	4.0	4.2	5.1	0.13	0.13	0.16	2.2	2.2	1.4			
							0.33	193	28.0	28.0	30.0	8.4	149.9	144.8	9.9	9.6	7.5	1.6	1.7	2.8	<0.001	<0.001	0.002	4.4	4.2	5.1	0.13	0.13	0.16	2.2	2.2	1.4			
							0.27	190	26.5	26.5	31.0	8.1	79.2	78.9	5.4	5.3	7.5	2.7	2.7	2.8	<0.001	<0.001	0.002	5.1	5.0	5.1	0.20	0.20	0.16	<1.0	<1.0	<1.0	<1.0	<1.0	1.4
						0.27	190	26.5	26.5	31.0	8.1	78.5	78.9	5.3	5.3	7.5	2.6	2.7	2.8	<0.001	<0.001	0.002	4.8	5.0	5.1	0.19	0.20	0.16	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	
						0.64	125	26.3	26.3	31.4	8.0	70.2	67.3	4.8	4.6	4.6	3.9	4.0	2.8	<0.001	0.005	0.002	6.0	6.2	5.1	0.16	0.17	0.16	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	
						0.31	31	26.3	26.3	31.4	8.0	64.4	67.3	4.4	4.6	4.6	4.1	4.0	2.8	<0.001	0.005	0.002	3.6	3.8	5.1	0.17	0.17	0.16	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	
	IM6	Fine	Calm	14:38	16.0	S	0.26	83	30.2	29.8	28.6	8.3	154.9	160.5	10.0	10.4	8.0	1.6	1.6	2.7	<0.001	<0.001	<0.001	3.6	3.8	5.2	0.13	0.24	0.16	2.5	2.5	1.5			
							0.29	124	29.3	29.8	28.9	8.4	166.0	160.5	10.8	10.4	8.0	1.5	1.6	2.7	<0.001	<0.001	<0.001	4.0	3.8	5.2	0.13	0.24	0.16	2.4	2.5	1.5			
							0.57	80	26.0	26.0	32.1	8.1	81.8	82.4	5.5	5.6	8.0	0.9	0.9	2.7	<0.001	<0.001	<0.001	5.0	5.2	5.2	0.13	0.13	0.16	<1.0	<1.0	<1.0	<1.0	1.5	
						0.57	80	26.1	26.0	32.0	8.1	83.0	82.4	5.6	5.6	8.0	0.9	0.9	2.7	<0.001	<0.001	<0.001	6.8	6.6	5.2	0.13	0.13	0.16	<1.0	<1.0	<1.0	<1.0	1.5		
						0.68	32	23.9	23.9	33.8	8.0	61.1	60.3	4.2	4.2	4.2	5.2	5.6	2.7	<0.001	<0.001	<0.001	6.4	6.6	5.2	0.10	0.10	0.16	<1.0	<1.0	<1.0	<1.0	1.5		
						0.68	32	23.9	23.9	33.8	8.0	59.5	60.3	4.1	4.2	4.2	5.9	5.6	2.7	<0.001	<0.001	<0.001	6.4	6.6	5.2	0.10	0.10	0.16	<1.0	<1.0	<1.0	<1.0	1.5		
Mid-Flood	F3	Fine	Calm	08:50	17.6	S	0.48	333	27.5	27.5	29.4	8.3	125.0	125.5	8.4	8.4	6.9	0.9	1.0	3.2	<0.001	<0.001	<0.001	4.2	4.4	7.9	0.18	0.18	0.12	<1.0	<1.0	<1.0			
							0.32	270	27.5	27.5	29.4	8.3	126.0	125.5	8.4	8.4	6.9	1.0	1.0	3.2	<0.001	<0.001	<0.001	4.6	4.4	7.9	0.17	0.18	0.12	<1.0	<1.0	<1.0	<1.0		
							0.22	268	25.6	25.6	33.0	8.1	80.9	80.7	5.5	5.5	6.9	0.1	0.1	3.2	<0.001	<0.001	<0.001	5.0	5.2	7.9	0.06	0.07	0.12	<1.0	<1.0	<1.0	<1.0	<1.0	
						0.34	187	25.6	25.6	33.1	8.1	80.5	80.7	5.5	5.5	6.9	0.1	0.1	3.2	<0.001	<0.001	<0.001	5.3	5.2	7.9	0.07	0.07	0.12	<1.0	<1.0	<1.0	<1.0	<1.0		
						0.19	330	23.8	23.8	33.8	8.0	58.3	57.6	4.1	4.0	4.0	7.9	8.4	3.2	<0.001	<0.001	<0.001	14.3	14.1	7.9	0.10	0.11	0.12	<1.0	<1.0	<1.0	<1.0	<1.0		
						0.19	330	23.8	23.8	33.7	8.0	56.8	57.6	4.0	4.0	4.0	8.9	8.4	3.2	<0.001	<0.001	<0.001	13.9	14.1	7.9	0.11	0.11	0.12	<1.0	<1.0	<1.0	<1.0	<1.0		
	IM6	Fine	Calm	08:34	16.0	S	0.46	303	27.6	27.6	28.3	8.2	106.1	106.8	7.2	7.2	6.0	2.8	2.7	4.0	<0.001	0.004	0.002	4.5	4.7	6.4	0.38	0.36	0.20	<1.0	<1.0	<1.0			
							0.46	303	27.6	27.6	28.2	8.2	107.5	106.8	7.2	7.2	6.0	2.6	2.7	4.0	0.007	0.004	0.002	4.8	4.7	6.4	0.34	0.36	0.20	<1.0	<1.0	<1.0	<1.0		
							0.21	281	25.6	25.5	32.4	8.0	69.8	70.0	4.8	4.8	6.0	3.0	2.9	4.0	<0.001	<0.001	0.002	5.6	5.4	6.4	0.14	0.14	0.20	<1.0	<1.0	<1.0	<1.0	<1.0	
						0.21	281	25.5	25.5	32.4	8.0	70.2	70.0	4.8	4.8	6.0	2.8	2.9	4.0	<0.001	<0.001	0.002	5.2	5.4	6.4	0.14	0.14	0.20	<1.0	<1.0	<1.0	<1.0	<1.0		
						0.51	334	24.0	24.0	33.8	8.0	60.0	59.2	4.2	4.1	4.1	6.1	6.5	4.0	<0.001	<0.001	0.002	8.8	9.0	6.4	0.09	0.10	0.20	<1.0	<1.0	<1.0	<1.0	<1.0		
						0.51	334	24.0	24.0	33.8	8.0	58.3	59.2	4.1	4.1	4.1	6.9	6.5	4.0	<0.001	<0.001	0.002	9.2	9.0	6.4	0.10	0.10	0.20	<1.0	<1.0	<1.0	<1.0	<1.0		

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/08/28

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Fine	Calm	09:38	8.3	S	0.36	130	28.8	28.8	23.7	23.7	8.4	8.4	132.9	132.7	9.0	9.0	7.6	0.4	0.4	0.8	<0.001	<0.001	<0.001	2.2	2.2	2.0	0.47	0.47	0.30	1.3	1.2	1.1	
							0.36	130	28.8	28.8	23.6	23.7	8.4	8.4	132.4	132.7	9.0	9.0	7.6	0.4	0.4	0.8	<0.001	<0.001	<0.001	2.1	2.1	2.0	0.46	0.47	0.30	1.1	1.2	1.1	
							0.17	29	27.3	27.3	30.2	30.2	8.1	8.1	91.3	93.3	6.1	6.2	7.6	1.0	1.1	0.8	<0.001	<0.001	<0.001	2.1	2.1	2.0	0.20	0.20	0.30	1.1	1.1	1.1	
						0.46	13	27.3	27.3	30.2	30.2	8.1	8.1	95.3	93.3	6.4	6.2	7.6	1.1	1.1	0.8	<0.001	<0.001	<0.001	2.0	2.0	2.0	0.19	0.20	0.30	1.0	1.1	1.1		
						0.28	63	26.4	26.4	31.1	31.1	8.0	8.0	70.5	68.6	4.8	4.6	4.6	1.0	1.1	0.8	<0.001	<0.001	<0.001	1.6	1.8	2.0	0.23	0.23	0.30	1.2	1.2	1.1		
						0.44	15	26.4	26.4	31.2	31.1	8.0	8.0	66.7	68.6	4.5	4.6	4.6	1.1	1.1	0.8	<0.001	<0.001	<0.001	1.9	1.8	2.0	0.22	0.23	0.30	1.1	1.2	1.1		
	IM6	Fine	Calm	09:05	16.0	S	0.22	79	28.5	28.5	23.7	23.9	8.4	8.4	125.0	125.2	8.5	8.5	6.6	0.9	0.9	1.9	<0.001	<0.001	<0.001	2.6	2.5	2.5	0.53	0.53	0.29	1.0	1.1	1.0	
							0.51	172	28.4	28.5	24.1	23.9	8.3	8.4	125.3	125.2	8.5	8.5	6.6	0.8	0.9	1.9	<0.001	<0.001	<0.001	2.4	2.5	2.5	0.52	0.53	0.29	1.1	1.1	1.0	
							0.22	64	25.8	25.8	31.6	31.5	8.0	8.0	66.8	67.5	4.6	4.6	6.6	0.4	0.4	1.9	<0.001	<0.001	<0.001	1.1	1.2	2.5	0.18	0.18	0.29	<1.0	<1.0	1.0	
						0.22	64	25.8	25.8	31.5	31.5	8.0	8.0	68.1	67.5	4.6	4.6	6.6	0.4	0.4	1.9	<0.001	<0.001	<0.001	1.2	1.2	2.5	0.17	0.18	0.29	<1.0	<1.0	1.0		
						0.27	113	23.4	23.4	33.8	33.8	7.9	7.9	46.7	46.1	3.3	3.2	3.2	4.5	4.6	1.9	<0.001	<0.001	<0.001	1.5	3.9	2.5	0.18	0.16	0.29	<1.0	<1.0	1.0		
						0.20	55	23.4	23.4	33.8	33.8	7.9	7.9	45.4	46.1	3.2	3.2	3.2	4.6	4.6	1.9	<0.001	<0.001	<0.001	6.2	3.9	2.5	0.14	0.16	0.29	<1.0	<1.0	1.0		
Mid-Flood	F3	Fine	Calm	17:08	17.2	S	0.33	306	27.9	27.9	27.2	27.3	8.4	8.4	135.2	136.4	9.1	9.2	7.1	0.7	0.7	2.9	<0.001	0.012	0.005	2.1	2.2	4.2	0.31	0.33	0.22	1.3	1.2	1.1	
							0.32	302	27.9	27.9	27.3	27.3	8.4	8.4	137.5	136.4	9.3	9.2	7.1	0.7	0.7	2.9	0.023	0.012	0.005	2.3	2.2	4.2	0.35	0.33	0.22	1.0	1.2	1.1	
							0.15	108	26.3	26.3	30.9	30.8	8.1	8.1	74.2	74.4	5.0	5.0	7.1	1.0	1.0	2.9	<0.001	<0.001	<0.001	1.2	1.4	4.2	0.20	0.21	0.22	1.2	1.2	1.1	
						0.84	23	26.3	26.3	30.8	30.8	8.1	8.1	74.5	74.4	5.1	5.0	7.1	1.0	1.0	2.9	<0.001	<0.001	<0.001	1.5	1.4	4.2	0.21	0.21	0.22	1.1	1.2	1.1		
						0.32	2	23.2	23.2	33.9	33.9	7.9	7.9	45.8	45.2	3.2	3.2	3.2	6.8	6.9	2.9	<0.001	<0.001	<0.001	8.9	9.1	4.2	0.13	0.14	0.22	<1.0	<1.0	1.1		
						0.38	329	23.2	23.2	33.9	33.9	7.9	7.9	44.5	45.2	3.1	3.2	3.2	7.0	6.9	2.9	<0.001	<0.001	<0.001	9.3	9.1	4.2	0.14	0.14	0.22	<1.0	<1.0	1.1		
	IM6	Fine	Calm	16:54	16.0	S	0.80	255	27.7	27.7	27.0	27.4	8.3	8.3	116.7	115.8	7.9	7.8	6.0	1.1	1.1	3.3	<0.001	<0.001	<0.001	1.8	1.8	4.4	0.38	0.38	0.23	1.3	1.4	1.1	
							0.49	286	27.6	27.7	27.8	27.4	8.3	8.3	114.8	115.8	7.8	7.8	6.0	1.1	1.1	3.3	<0.001	<0.001	<0.001	1.8	1.8	4.4	0.37	0.38	0.23	1.4	1.4	1.1	
							0.18	223	25.3	25.3	32.0	32.0	8.0	8.0	58.7	59.9	4.0	4.1	6.0	1.5	1.5	3.3	<0.001	<0.001	<0.001	2.5	2.4	4.4	0.19	0.19	0.23	<1.0	<1.0	1.1	
						0.18	223	25.3	25.3	31.9	32.0	8.0	8.0	61.0	59.9	4.2	4.1	6.0	1.4	1.4	3.3	<0.001	<0.001	<0.001	2.3	2.4	4.4	0.18	0.19	0.23	<1.0	<1.0	1.1		
						0.22	246	23.4	23.4	33.8	33.8	7.9	7.9	44.9	44.3	3.2	3.1	3.1	7.2	7.5	3.3	<0.001	<0.001	<0.001	8.9	9.0	4.4	0.13	0.13	0.23	<1.0	<1.0	1.1		
						0.51	333	23.4	23.4	33.7	33.8	7.9	7.9	43.7	44.3	3.1	3.1	3.1	7.7	7.5	3.3	<0.001	<0.001	<0.001	9.1	9.0	4.4	0.13	0.13	0.23	<1.0	<1.0	1.1		

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/09/09

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Rainy	Moderate	08:09	9.6	S	0.46	186	26.2	26.2	26.2	30.1	30.1	8.1	8.1	96.5	96.5	6.6	6.6	6.6	1.0	1.1	5.3	<0.001	<0.001	0.001	2.1	2.1	2.8	0.23	0.23	0.20	<1.0	<1.0	<1.0
							0.46	186	26.2	30.2		30.2	8.1	8.1	96.5	95.9	6.6	6.5	6.6	1.1	1.2	<0.001		0.001	2.0		0.21								
							0.29	20	26.2	30.3		30.2	8.1	8.1	96.1	96.1	6.6	6.6	1.1	1.2	0.001	0.001		1.8	0.20										
						0.11	241	26.2	30.2	30.9		8.1	8.1	92.1	92.3	6.3	6.3	6.3	14.5	13.8	<0.001	<0.001		5.4	0.17										
						0.48	122	26.2	30.9	30.9		8.1	8.1	92.4	92.3	6.3	6.3	6.3	13.0	13.8	<0.001	<0.001		3.6	0.18										
						0.48	122	26.2	30.9	30.5		8.1	8.2	94.3	94.9	6.4	6.5	6.1	0.7	0.8	<0.001	<0.001		1.4	0.19										
	IM6	Rainy	Moderate	08:42	17.0	S	0.05	172	26.2	26.2	25.8	30.5	30.5	8.2	8.2	94.3	94.9	6.4	6.5	6.5	0.8	0.8	5.8	<0.001	<0.001	<0.001	1.4	1.4	6.9	0.13	0.13	0.18	<1.0	<1.0	<1.0
							0.38	216	26.2	30.5		30.5	8.2	8.2	95.5	95.5	6.5	6.5	6.1	0.8	0.8	<0.001		<0.001	1.4		0.19								
							0.49	357	26.0	32.4		32.4	8.2	8.2	84.4	85.6	5.7	5.8	6.1	1.8	1.7	<0.001		<0.001	2.4		0.13								
						0.62	158	26.0	32.3	32.3		8.2	8.2	86.8	86.8	5.9	5.9	4.4	1.5	1.5	<0.001	<0.001		2.4	0.12										
						0.10	354	25.3	33.4	33.4		8.0	8.0	66.3	64.4	4.5	4.4	4.4	13.9	14.9	<0.001	<0.001		19.2	0.22										
						0.10	354	25.3	33.5	33.4		8.0	8.0	62.4	64.4	4.3	4.4	4.4	15.9	14.9	<0.001	<0.001		14.5	0.22										
Mid-Flood	F3	Rainy	Moderate	20:33	16.0	S	0.61	307	26.1	26.1	25.9	30.7	30.6	8.2	8.2	98.8	98.9	6.7	6.7	6.5	0.4	0.4	2.6	<0.001	<0.001	<0.001	1.2	1.3	1.8	0.16	0.16	0.12	<1.0	<1.0	<1.0
							0.65	278	26.1	30.6		30.6	8.2	8.2	98.9	98.9	6.7	6.7	6.5	0.4	0.4	<0.001		<0.001	1.2		0.15								
							0.16	340	26.1	32.7		32.7	8.2	8.2	92.1	94.3	6.2	6.3	6.5	0.5	0.5	<0.001		<0.001	1.2		0.06								
						0.16	340	26.1	32.7	32.7		8.2	8.2	96.4	94.3	6.5	6.3	6.5	0.4	0.5	<0.001	<0.001		<1.0	0.06										
						0.29	303	25.4	33.5	33.5		8.0	8.0	73.7	73.8	5.0	5.0	5.0	7.6	6.9	<0.001	<0.001		2.9	0.15										
						0.35	303	25.5	33.5	33.5		8.0	8.0	73.8	73.8	5.0	5.0	5.0	6.1	6.9	<0.001	<0.001		3.3	0.16										
	IM6	Rainy	Moderate	20:19	15.0	S	0.23	153	26.1	26.0	25.7	30.9	30.9	8.1	8.1	92.7	93.6	6.3	6.4	5.8	1.5	1.5	6.2	<0.001	<0.001	<0.001	2.3	2.4	8.5	0.16	0.17	0.17	<1.0	<1.0	<1.0
							0.23	153	26.0	30.9		30.9	8.1	8.1	94.4	93.6	6.4	6.4	5.8	1.5	1.5	<0.001		<0.001	2.4		0.16								
							0.46	329	25.8	32.4		32.2	8.1	8.1	76.8	78.1	5.2	5.3	5.8	6.4	6.1	<0.001		<0.001	8.3		0.16								
						0.46	329	25.8	32.0	32.2		8.1	8.1	79.3	78.1	5.4	5.3	5.8	5.7	6.1	<0.001	<0.001		9.0	0.16										
						0.35	342	25.4	33.4	33.4		8.0	8.0	74.3	73.0	5.1	5.0	5.0	11.0	10.9	<0.001	<0.001		13.8	0.18										
						0.35	342	25.4	33.4	33.4		8.0	8.0	71.7	73.0	4.9	5.0	5.0	10.8	10.9	<0.001	<0.001		15.0	0.17										

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/09/11

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Cloudy	Moderate	10:18	9.4	S	0.34	337	26.1	26.1	29.4	29.4	8.1	8.1	93.5	94.8	6.4	6.5	6.1	0.3	0.3	1.9	<0.001	<0.001	0.002	3.2	3.4	4.4	0.22	0.23	0.18	<1.0	<1.0	<1.0	
							0.38	81	26.1		29.4	29.4	8.1	8.1	96.1	94.8	6.6	6.5	6.1	0.3	0.3	<0.001	<0.001	0.002	3.5	3.4	4.4	0.23	0.23	0.18	<1.0	<1.0	<1.0		
							0.04	17	26.0		31.0	31.0	8.0	8.0	82.7	82.3	5.6	5.6	6.1	2.7	2.6	<0.001	0.002	0.002	4.4	4.7	4.4	0.22	0.23	0.18	<1.0	<1.0	<1.0		
						0.51	148	26.0	30.9	30.9	8.0	8.0	81.8	82.3	5.6	5.6	6.1	2.5	2.6	0.003	0.002	0.002	4.4	4.7	4.4	0.23	0.23	0.18	<1.0	<1.0	<1.0				
						0.10	311	26.1	32.5	32.5	8.1	8.1	92.5	92.1	6.2	6.2	6.2	2.5	2.7	<0.001	0.003	0.003	5.4	5.2	5.4	0.09	0.09	0.18	<1.0	<1.0	<1.0				
						0.13	344	26.1	32.5	32.5	8.1	8.1	91.6	92.1	6.2	6.2	6.2	2.8	2.7	0.004	0.003	0.003	5.0	5.2	5.0	0.08	0.08	0.18	<1.0	<1.0	<1.0				
	IM6	Cloudy	Moderate	09:45	17.6	S	0.54	154	26.0	26.0	30.8	30.8	8.1	8.1	90.7	90.6	6.2	6.2	6.1	0.3	0.3	4.4	<0.001	0.001	0.001	2.8	3.1	7.3	0.28	0.28	0.14	<1.0	<1.0	<1.0	
							0.10	5	26.0		30.8	30.8	8.1	8.1	90.5	90.6	6.2	6.2	6.1	0.3	0.3	4.4	<0.001	0.001	0.001	3.4	3.1	7.3	0.28	0.28	0.14	<1.0	<1.0	<1.0	
							0.35	142	26.0		32.9	32.9	8.1	8.1	90.4	90.4	6.1	6.1	6.1	1.6	1.5	4.4	<0.001	<0.001	0.001	4.6	4.8	7.3	0.08	0.08	0.14	<1.0	<1.0	<1.0	
						0.48	36	26.0	32.9	32.9	8.1	8.1	90.4	90.4	6.1	6.1	6.1	1.4	1.5	4.4	<0.001	<0.001	0.001	5.0	4.8	7.3	0.08	0.08	0.14	<1.0	<1.0	<1.0			
						1.17	116	26.1	33.5	33.5	8.1	8.1	91.2	91.1	6.1	6.1	6.1	11.9	11.4	4.4	<0.001	<0.001	0.001	13.9	14.1	7.3	0.05	0.05	0.14	<1.0	<1.0	<1.0			
						1.17	116	26.1	33.5	33.5	8.1	8.1	91.0	91.1	6.1	6.1	6.1	10.8	11.4	4.4	<0.001	<0.001	0.001	14.2	14.1	7.3	0.04	0.05	0.14	<1.0	<1.0	<1.0			
Mid-Flood	F3	Rainy	Rough	17:15	17.1	S	0.51	261	26.3	26.3	30.3	30.3	8.1	8.1	95.6	96.4	6.5	6.6	6.3	0.4	0.4	3.8	<0.001	<0.001	<0.001	2.2	2.4	5.7	0.22	0.21	0.14	<1.0	<1.0	<1.0	
							0.17	290	26.3		30.3	30.3	8.1	8.1	97.1	96.4	6.6	6.6	6.3	0.4	0.4	3.8	<0.001	<0.001	<0.001	2.5	2.4	5.7	0.20	0.21	0.14	<1.0	<1.0	<1.0	
							0.11	48	26.0		31.8	31.8	8.1	8.1	87.9	88.4	6.0	6.0	6.3	1.3	1.2	3.8	<0.001	<0.001	<0.001	3.6	3.7	5.7	0.15	0.16	0.14	<1.0	<1.0	<1.0	
						0.31	251	26.0	31.3	31.3	8.1	8.1	88.8	88.4	6.0	6.0	6.3	1.1	1.2	3.8	<0.001	<0.001	<0.001	3.8	3.7	5.7	0.16	0.16	0.14	<1.0	<1.0	<1.0			
						0.68	302	26.1	33.3	33.3	8.1	8.1	88.4	88.3	5.9	5.9	5.9	10.5	9.8	3.8	<0.001	<0.001	<0.001	11.2	11.0	5.7	0.07	0.07	0.14	<1.0	<1.0	<1.0			
						0.48	341	26.1	33.3	33.3	8.1	8.1	88.1	88.3	5.9	5.9	5.9	9.1	9.8	3.8	<0.001	<0.001	<0.001	10.8	11.0	5.7	0.06	0.07	0.14	<1.0	<1.0	<1.0			
	IM6	Rainy	Rough	17:01	16.1	S	0.45	78	26.3	26.3	28.3	28.3	8.1	8.1	95.1	95.5	6.6	6.6	6.4	1.0	1.1	6.4	<0.001	<0.001	<0.001	4.3	4.2	10.7	0.36	0.36	0.23	<1.0	<1.0	<1.0	
							0.79	193	26.1		30.5	30.5	8.1	8.1	90.8	91.2	6.2	6.2	6.4	1.0	1.1	6.4	<0.001	<0.001	<0.001	4.1	4.2	10.7	0.36	0.36	0.23	<1.0	<1.0	<1.0	
							0.79	193	26.1		30.5	30.5	8.1	8.1	91.6	91.2	6.2	6.2	6.4	1.2	1.1	6.4	<0.001	<0.001	<0.001	4.9	5.2	10.7	0.23	0.23	0.23	<1.0	<1.0	<1.0	
						0.69	170	26.0	32.6	32.6	8.1	8.1	90.6	89.7	6.1	6.1	6.1	16.8	17.1	6.4	<0.001	<0.001	<0.001	23.7	22.9	10.7	0.09	0.10	0.23	<1.0	<1.0	<1.0			
						0.69	170	26.0	32.7	32.7	8.1	8.1	88.8	89.7	6.0	6.1	6.1	17.4	17.1	6.4	<0.001	<0.001	<0.001	22.0	22.9	10.7	0.11	0.10	0.23	<1.0	<1.0	<1.0			
						0.69	170	26.0	32.7	32.7	8.1	8.1	88.8	89.7	6.0	6.1	6.1	17.4	17.1	6.4	<0.001	<0.001	<0.001	22.0	22.9	10.7	0.11	0.10	0.23	<1.0	<1.0	<1.0			

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/09/20

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)						
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
Mid-Ebb	E2	Fine	Calm	14:58	9.1	S	0.30	36	29.6	29.5	27.4	27.5	8.5	8.5	167.0	169.7	10.9	11.1	2.9	2.7	5.3	<0.001	<0.001	<0.001	5.9	5.8	9.5	0.28	0.28	0.24	1.5	1.7	1.3						
							0.06	145	29.5				27.5		8.5		172.4		11.3			2.5			<0.001			5.6			0.27			1.9					
							0.54	348	27.8				27.8		29.0		29.0		8.3			124.8			8.3			8.5			3.5			<0.001	7.9	8.1	0.22	1.1	
						M	0.43	346	27.8	27.8	29.0	29.0	8.3	130.6	8.7	8.5	3.5	<0.001	8.3	8.1	0.20	1.0																	
							0.58	320	27.2	27.2	30.8	30.8	8.1	90.1	6.0	5.9	5.9	10.0	9.8	<0.001	14.5	14.7	0.23	<1.0															
							0.58	320	27.2	27.2	30.8	30.8	8.1	87.3	5.8	5.9	5.9	9.5	9.8	<0.001	14.9	14.7	0.22	<1.0															
	IM6	Fine	Calm	14:26	16.8	S	0.32	357	28.9	28.9	25.7	25.7	8.5	8.5	144.6	150.6	9.7	10.1	2.9	2.9	3.8	<0.001	<0.001	<0.001	4.4	4.6	5.5	0.36	0.35	0.18	2.1	2.1	1.4						
							0.32	357	28.9				28.9		25.7		25.7		8.5			156.6			10.5			5.8			5.8			2.9	<0.001	4.8	5.4	0.34	2.0
							0.03	109	26.6				26.6		32.3		32.3		8.2			86.6			5.8			5.8			7.9			3.1	3.1	<0.001	5.5	5.4	0.12
						M	0.15	349	26.6	26.6	32.3	32.3	8.2	86.9	5.8	5.8	7.9	3.1	3.1	<0.001	5.2	5.4	0.10	<1.0															
							0.26	101	26.4	26.4	33.1	33.1	8.1	79.2	5.3	5.3	5.3	5.5	5.3	<0.001	6.8	6.6	0.07	<1.0															
							0.17	214	26.4	26.4	33.1	33.1	8.1	79.0	5.3	5.3	5.3	5.1	5.3	<0.001	6.4	6.6	0.09	<1.0															
Mid-Flood	F3	Fine	Calm	09:10	18.0	S	0.16	261	28.0	28.0	26.9	27.0	8.4	8.4	124.9	127.9	8.4	8.6	2.4	2.4	3.8	<0.001	<0.001	0.001	4.6	4.5	6.4	0.35	0.36	0.19	<1.0	<1.0	<1.0						
							0.16	261	28.0				28.0		26.9		27.0		8.4			130.8			8.8			8.6			2.4			<0.001	4.3	5.4	0.37	<1.0	
							0.12	202	26.6				26.6		32.2		32.3		8.2			83.9			5.6			5.6			7.1			2.3	2.3	<0.001	5.2	5.4	0.14
						M	0.37	260	26.6	26.6	32.4	32.3	8.2	83.6	5.6	5.6	7.1	2.3	2.3	0.003	5.6	5.4	0.11	<1.0															
							0.31	296	26.4	26.4	33.2	33.2	8.2	81.6	5.5	5.4	5.4	6.6	6.7	<0.001	9.5	9.3	0.08	<1.0															
							0.31	296	26.4	26.4	33.2	33.2	8.2	80.2	5.4	5.4	5.4	6.8	6.7	<0.001	9.1	9.3	0.08	<1.0															
	IM6	Fine	Calm	08:40	16.4	S	0.35	315	28.2	28.1	25.8	25.8	8.5	8.5	127.2	130.4	8.6	8.8	2.1	2.1	5.5	<0.001	<0.001	0.002	4.7	4.6	7.9	0.39	0.40	0.24	<1.0	<1.0	<1.0						
							0.35	315	28.1				28.1		25.8		25.8		8.5			133.6			9.0			8.8			2.1			0.002	4.4	5.4	0.41	<1.0	
							0.08	220	27.1				27.1		30.7		30.7		8.2			94.5			6.3			6.3			7.6			3.9	3.9	<0.001	5.3	5.4	0.19
						M	0.53	183	27.1	27.1	30.8	30.7	8.2	94.1	6.3	6.3	7.6	3.9	3.9	<0.001	5.5	5.4	0.22	<1.0															
							0.26	327	26.5	26.5	32.9	32.9	8.2	83.9	5.6	5.5	5.5	11.0	10.5	<0.001	13.9	13.7	0.12	<1.0															
							0.56	334	26.5	26.5	32.9	32.9	8.2	80.6	5.4	5.5	5.5	10.0	10.5	<0.001	13.4	13.7	0.09	<1.0															

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed

Water Quality Monitoring Data Log Sheet

Date: 2023/09/26

Tide	Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	Current Direction	Temperature (°C)			Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Total Residual Chlorine (mg/L)			Suspended Solids (mg/L)			Total Inorganic Nitrogen (mg/L)			5-day Biochemical Oxygen Demand (mg/L)		
									Value	Average	DA	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
Mid-Ebb	E2	Fine	Moderate	09:12	9.3	S	0.52	357	28.7	28.7	29.3	29.3	8.4	8.4	102.2	103.0	6.7	6.8	6.5	1.0	1.0	4.2	<0.001	<0.001	<0.001	3.1	3.0	6.8	0.18	0.18	0.16	<1.0	<1.0	<1.0	
							0.52	357	28.7	28.7	29.3	29.3	8.4	8.4	103.7	103.0	6.8	6.8	6.5	1.0	1.0	4.2	<0.001	<0.001	<0.001	2.8	3.0	6.8	0.18	0.18	0.16	<1.0	<1.0	<1.0	
							0.20	74	28.4	28.5	29.8	29.7	8.3	8.3	90.7	93.4	6.0	6.2	6.5	2.1	1.8	4.2	<0.001	<0.001	<0.001	5.5	5.3	6.8	0.18	0.18	0.16	<1.0	<1.0	<1.0	
						0.76	119	28.5	28.5	29.6	29.7	8.3	8.3	96.1	93.4	6.3	6.2	6.5	1.4	1.8	4.2	<0.001	<0.001	<0.001	5.0	5.3	6.8	0.18	0.18	0.16	<1.0	<1.0	<1.0		
						0.41	120	27.9	27.9	31.8	31.8	8.2	8.2	86.0	84.1	5.7	5.5	5.5	9.2	10.0	4.2	<0.001	<0.001	<0.001	11.9	12.1	6.8	0.13	0.13	0.16	<1.0	<1.0	<1.0		
						0.35	46	27.9	27.9	31.8	31.8	8.2	8.2	82.1	84.1	5.4	5.5	5.5	10.7	10.0	4.2	<0.001	<0.001	<0.001	12.3	12.1	6.8	0.12	0.12	0.16	<1.0	<1.0	<1.0		
	IM6	Fine	Moderate	08:39	17.2	S	0.32	267	28.2	28.2	30.9	30.9	8.3	8.3	102.8	103.1	6.8	6.8	6.6	0.1	0.1	2.4	<0.001	<0.001	<0.001	1.9	1.8	4.0	0.11	0.12	0.08	<1.0	<1.0	<1.0	
							0.32	267	28.3	28.2	30.8	30.9	8.3	8.3	103.4	103.1	6.8	6.8	6.6	0.1	0.1	2.4	<0.001	<0.001	<0.001	1.6	1.8	4.0	0.12	0.12	0.08	<1.0	<1.0	<1.0	
							0.20	0	28.2	28.2	32.2	32.2	8.3	8.3	99.1	99.5	6.5	6.5	6.6	0.7	0.8	2.4	<0.001	<0.001	<0.001	2.2	2.3	4.0	0.04	0.04	0.08	<1.0	<1.0	<1.0	
						0.03	33	28.2	28.0	32.2	32.3	8.3	8.3	99.9	99.5	6.5	6.5	6.6	0.8	0.8	2.4	<0.001	<0.001	<0.001	2.4	2.3	4.0	0.03	0.04	0.08	<1.0	<1.0	<1.0		
						1.06	131	28.0	28.0	32.3	32.3	8.2	8.2	92.1	89.7	6.0	5.9	5.9	5.4	6.5	2.4	<0.001	<0.001	<0.001	8.0	7.8	4.0	0.08	0.07	0.08	<1.0	<1.0	<1.0		
						0.59	146	27.9	28.0	32.4	32.3	8.2	8.2	87.2	89.7	5.7	5.9	5.9	7.5	6.5	2.4	<0.001	<0.001	<0.001	7.6	7.8	4.0	0.06	0.07	0.08	<1.0	<1.0	<1.0		
Mid-Flood	F3	Fine	Rough	16:33	17.2	S	0.47	271	28.9	28.9	30.2	30.2	8.4	8.4	112.1	113.0	7.3	7.4	7.1	0.7	0.7	3.5	<0.001	<0.001	0.002	2.3	2.4	3.9	0.11	0.11	0.07	<1.0	<1.0	<1.0	
							0.33	302	28.9	28.9	30.2	30.2	8.4	8.4	113.8	113.0	7.4	7.4	7.1	0.6	0.7	3.5	<0.001	<0.001	0.002	2.5	2.4	3.9	0.11	0.11	0.07	<1.0	<1.0	<1.0	
							0.45	318	28.4	28.4	31.5	31.4	8.3	8.3	100.8	103.6	6.6	6.8	7.1	1.9	1.9	3.5	<0.001	0.002	0.002	3.5	3.3	3.9	0.06	0.06	0.07	<1.0	<1.0	<1.0	
						0.40	193	28.4	28.4	31.4	31.4	8.3	8.3	106.3	103.6	6.9	6.8	7.1	1.9	1.9	3.5	0.003	0.002	0.002	3.1	3.3	3.9	0.06	0.06	0.07	<1.0	<1.0	<1.0		
						0.70	294	28.2	28.2	32.4	32.4	8.3	8.3	99.9	99.5	6.5	6.5	6.5	7.7	7.9	3.5	<0.001	0.002	0.002	5.8	6.0	3.9	0.03	0.04	0.07	<1.0	<1.0	<1.0		
						0.70	294	28.2	28.2	32.4	32.4	8.3	8.3	99.0	99.5	6.5	6.5	6.5	8.1	7.9	3.5	0.003	0.002	0.002	6.2	6.0	3.9	0.05	0.04	0.07	<1.0	<1.0	<1.0		
	IM6	Fine	Rough	16:20	16.0	S	0.29	113	28.7	28.7	30.2	30.2	8.4	8.4	105.3	106.7	6.9	7.0	6.7	1.0	1.0	6.2	<0.001	<0.001	0.001	2.6	2.8	9.1	0.11	0.11	0.07	<1.0	<1.0	<1.0	
							0.19	308	28.7	28.7	30.2	30.2	8.4	8.4	108.0	106.7	7.1	7.0	6.7	0.9	1.0	6.2	<0.001	<0.001	0.001	2.9	2.8	9.1	0.11	0.11	0.07	<1.0	<1.0	<1.0	
							0.81	206	28.3	28.3	32.0	32.0	8.3	8.3	98.5	98.6	6.4	6.4	6.7	5.0	4.8	6.2	<0.001	0.001	0.001	6.9	7.2	9.1	0.06	0.06	0.07	<1.0	<1.0	<1.0	
						0.51	248	28.3	28.3	32.0	32.0	8.3	8.3	98.6	98.6	6.4	6.4	6.7	4.5	4.8	6.2	0.001	0.001	0.001	7.4	7.2	9.1	0.06	0.06	0.07	<1.0	<1.0	<1.0		
						0.58	224	28.3	28.3	32.2	32.2	8.3	8.3	99.6	99.1	6.5	6.5	6.5	13.8	12.9	6.2	<0.001	<0.001	0.001	17.5	17.2	9.1	0.04	0.05	0.07	<1.0	<1.0	<1.0		
						0.58	224	28.3	28.3	32.2	32.2	8.3	8.3	98.6	99.1	6.4	6.5	6.5	11.9	12.9	6.2	<0.001	<0.001	0.001	16.8	17.2	9.1	0.05	0.05	0.07	<1.0	<1.0	<1.0		

Remark: \* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

\*\*\* S: 1 m below the sea surface; M: mid-depth; B: 1 m above the seabed